

# MOREHEAD STATE UNIVERSITY™



# 1998-2000

UNDERGRADUATE  
CATALOG

# Morehead State University™

## Undergraduate Catalog 1998-2000

---

*Morehead State University is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, Georgia 30033-4097: Telephone number 404-679-4501) to award Associate, Baccalaureate, Master's, and Specialist degrees.*

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Accreditation</b>     | <p>American Veterinary Medical Association<br/>           Association of Collegiate Business Schools and Programs<br/>           Commission on Collegiate Nursing<br/>           Council on Social Work Education--Baccalaureate Level<br/>           Joint Review Committee on Education in Radiologic Technology<br/>           National Association of Schools of Music<br/>           National Council for the Accreditation of Teacher Education<br/>           National League for Nursing</p> <p>American Bar Association approval of Paralegal Studies Program<br/>           American Dietetic Association approval of Didactic Program in Dietetics<br/>           American Dietetic Association approval of Approved Professional Practice Program in Dietetics (Ap4)</p>                                                                                                                                                                                                                                       |
| <b>Membership</b>        | <p>American Association of Colleges for Teacher Education<br/>           American Association of State Colleges and Universities<br/>           American Council on Education<br/>           American Association of Colleges of Nursing<br/>           Commission on Collegiate Nursing<br/>           Conference of Southern Graduate Schools<br/>           Council on Collegiate Education for Nursing - Southern Regional Education Board<br/>           Gulf Coast Research Laboratory<br/>           Kentucky Academy of Science<br/>           Kentucky Association of College of Music Departments<br/>           National Commission on Accreditation<br/>           National Council of Educational Opportunity Associations<br/>           National League for Nursing<br/>           Ohio River Basin Consortium<br/>           Southern Regional Education Board<br/>           The Council of Graduate Schools in the United States<br/>           Council for the Advancement and Support of Education</p> |
| <b>Volume</b>            | 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Date</b>              | August 1998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Toll Free Number</b>  | 1-800-585-6781                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Web Page</b>          | <a href="http://www.morehead-st.edu">www.morehead-st.edu</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Changes</b>           | Morehead State University reserves the right to change its academic regulations, policies, fees, and curricula without notice by action of the Kentucky Council on Postsecondary Education and/or the Morehead State University Board of Regents.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Equal Opportunity</b> | Morehead State University is committed to providing equal educational opportunity to all persons regardless of race, color, national origin, age, religion, marital status, sex, or educationally-unrelated handicaps in its educational programs, activities, employment policies, and admission of students to any program of study as required by Title IX, Title IV, and Section 504. Inquiries should be addressed to Affirmative Action Officer, Morehead State University, 101 Howell-McDowell Ad. Building., Morehead, KY 40351-1689.                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Printing</b>          | This catalog was prepared by Morehead State University and printed with state funds KRS 57.375.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

|                                                        |     |
|--------------------------------------------------------|-----|
| How to Use This Catalog                                | ii  |
| Programs of Study                                      | 1   |
| Who to See                                             | 4   |
| Abbreviations                                          | 6   |
| Mission Statement                                      | 7   |
| Admissions, Fees, Financial Aid, and Housing           | 8   |
| Academic Programs and Requirements for Graduation      | 17  |
| Academic Regulations and Procedures                    | 23  |
| Academic Support Services                              | 30  |
| Academic Opportunities                                 | 35  |
| Academic Programs                                      | 37  |
| Teacher Education Program and Professional Experiences | 51  |
| Descriptions of Courses                                | 143 |
| Directories                                            |     |
| Administrative                                         | 214 |
| Faculty                                                | 215 |
| Faculty Emeriti                                        | 220 |
| Index                                                  | 226 |

## How to Use This Catalog

---

This catalog is the official source of information about the University's academic programs. Its purpose is to guide you in planning a course of study to meet program, department, and University requirements. See the table of contents and index for an outline of the information provided.

The information in this catalog is current at the time of publication. If you are pursuing a degree and remain continuously enrolled in the University (excluding summers), you may complete a program according to the catalog requirements in effect at the time of your original enrollment. If you are not continuously enrolled in the University and do not complete a bachelor's degree within five years (three years for an associate degree), you may be required to meet the program requirements stipulated in a current catalog. If you are a transfer student pursuing a bachelor's degree, the time allotted for degree completion under the catalog in effect at the time of your enrollment is based upon your classification at the time of transfer; a sophomore transfer would have four years, a junior three years, and a senior two years. If you transfer above the freshman level and you are pursuing an associate degree, you have two years to complete the program under the catalog in effect at the time of your enrollment. The above limitations are based upon continuous enrollment.

Advisors and department and school offices make every effort to provide current information to students, but it is your responsibility to know the policies, regulations, and degree requirements that affect you. For further information, check with the Office of Academic Affairs, MSU, 205 Howell-McDowell Administration Building, Morehead, KY 40351-1689, telephone (606) 783-2002.

## Programs of Study

| Subject                                              | Degree*  | Program                   | Teacher<br>Certification<br>Program | Catalog<br>Page<br>No. |
|------------------------------------------------------|----------|---------------------------|-------------------------------------|------------------------|
| Accounting                                           | BBA      | Option                    |                                     | 33                     |
| Agricultural Education                               | BS       | Area                      | Yes                                 | 96                     |
| Agricultural Science With Following Options:         | BS       | Area, Major, Minor        |                                     | 96                     |
| Agribusiness                                         |          | Option                    |                                     |                        |
| Agriculture Economics                                |          | Option                    |                                     |                        |
| Agronomy                                             |          | Option                    |                                     |                        |
| Animal Science                                       |          | Option                    |                                     |                        |
| General Agriculture                                  |          | Option                    |                                     |                        |
| Golf Course Management                               |          | Option                    |                                     |                        |
| Horticulture                                         |          | Option                    |                                     |                        |
| Agricultural Technology With Following Options:      | AAS      | Two-year                  |                                     | 99                     |
| Agribusiness                                         |          | Option                    |                                     |                        |
| Agricultural Production                              |          | Option                    |                                     |                        |
| Equine Technology                                    |          | Option                    |                                     |                        |
| Ornamental Horticulture                              |          | Option                    |                                     |                        |
| Art                                                  | AB       | Area, Major<br>Minor      | Yes                                 | 74                     |
| Athletic Training                                    |          | Minor                     |                                     | 60                     |
| Biological Science Teaching                          | BS       | Area                      | Yes                                 |                        |
| Biology                                              | BS       | Major, Minor              |                                     | 104                    |
| Business (General)                                   | AAB      | Two-year                  |                                     |                        |
| Business Information Systems with Following Options: | AAB      | Two-year                  |                                     | 40                     |
| Administrative Support Management                    |          | Option                    |                                     |                        |
| Legal Support                                        |          | Option                    |                                     |                        |
| Medical Support                                      |          | Option                    |                                     |                        |
| Business and Marketing Education                     | BBA      | Option                    | Yes                                 | 36                     |
| Chemistry                                            | BS       | Area, Minor, Major        |                                     | 140                    |
| Child Development                                    |          | Minor                     |                                     |                        |
| Coaching                                             |          | Minor                     |                                     | 60                     |
| Communications With Following Emphasis:              | AB       | Area                      |                                     | 75                     |
| Electronic Media Production and Management           |          | Emphasis                  |                                     |                        |
| Electronic Media News                                |          | Emphasis                  |                                     |                        |
| Journalism                                           |          | Emphasis                  |                                     |                        |
| Advertising-Public Relations                         |          | Emphasis                  |                                     |                        |
| Computer Information Systems                         | BBA, AAB | Option, Minor<br>Two year |                                     | 37                     |
| Criminology (also see Sociology)                     | AB       | Emphasis, Minor           |                                     |                        |
| Creative Writing                                     |          | Minor                     |                                     |                        |
| Economics                                            | BBA      | Option                    |                                     | 34                     |
| Elementary Education - P-5                           | AB       | Area                      | Yes                                 | 53                     |
| Elementary Education - 5-9                           | AB       | Area                      | Yes                                 | 54                     |
| English                                              | AB       | Area, Major<br>Minor      | Yes                                 | 80                     |
| Environmental Science                                | BS       | Area, Minor               |                                     | 105                    |
| Family and Consumer Sciences (Vocational Education)  |          | BS                        | Area                                | Yes                    |
| Fashion Merchandising                                |          | Minor                     |                                     | 121                    |
| Finance                                              | BBA      | Option                    |                                     | 34                     |
| French                                               | AB       | Major<br>Minor            | Yes                                 | 83                     |
| Geography                                            | AB       | Major, Minor              |                                     | 86                     |

## Programs of Study (Continued)

|                                                 |      |                    |     |     |
|-------------------------------------------------|------|--------------------|-----|-----|
| Geology                                         | BS   | Area, Major, Minor |     |     |
| Government                                      | AB   | Major, Minor       |     | 86  |
| Health                                          | AB   | Major              | Yes | 60  |
|                                                 |      | Minor              |     |     |
| Historical Preservation                         |      | Minor              |     |     |
| History                                         | AB   | Major, Minor       |     | 87  |
| Human Sciences With Following Options:          | AAS  | Two-year           |     | 115 |
| Child Development                               |      | Option             |     |     |
| Fashion Merchandising                           |      | Option             |     |     |
| Food Service Management                         |      | Option             |     |     |
| Historical Preservation                         |      | Option             |     |     |
| Human Sciences With Following Options:          | BS   | Area               |     | 117 |
| Child Development                               |      | Option             |     |     |
| Dietetics                                       |      | Option             |     |     |
| Hotel, Restaurant, and Institutional Management |      | Option             |     |     |
| Retail Merchandising and Design                 |      | Option             |     |     |
| Horsemanship                                    |      | Minor              |     | 101 |
| Industrial Technology With Following Options:   | AAS  | Two-year           |     | 122 |
| Construction/Mining Technology                  |      | Option             |     |     |
| Electrical/Electronics Technology               |      | Option             |     |     |
| Graphic Communications Technology               |      | Option             |     |     |
| Manufacturing/Robotics Technology               |      | Option             |     |     |
| Industrial Technology with Following Options:   | BS   | Area, Major        |     | 124 |
| Construction/Mining Technology                  |      | Option             |     |     |
| Electricity/Electronics Technology              |      | Option             |     |     |
| Graphic Communications Technology               |      | Option             |     |     |
| Manufacturing/Robotics Technology               |      | Option             |     |     |
| Industrial Education Orientation/Exploration    | BS   | Option             | Yes |     |
| Industrial Education Preparation Level          | BS   | Option             | Yes | 127 |
| Interdisciplinary Early Childhood Development   | BS   | Major              | Yes | 116 |
| Interdisciplinary Women's Studies               |      | Minor              |     | 26  |
| Integrated Science                              |      | Minor              |     | 141 |
| Linguistics                                     |      | Minor              |     | 81  |
| Literature                                      |      | Minor              |     | 82  |
| Management                                      | BBA  | Option             |     | 42  |
|                                                 |      | Two Year           |     |     |
| Marketing                                       | BBA  | Option             |     | 43  |
|                                                 |      | Two Year           |     |     |
| Mathematics                                     | BS   | Major              | Yes | 128 |
|                                                 |      | Minor              |     |     |
| Mathematics (Statistics)                        |      | Minor              |     | 129 |
| Mathematics and Computing                       | BS   | Area               |     | 129 |
| Medical Technology                              | BS   | Area               |     | 106 |
| Military Science                                |      | Minor              |     | 67  |
| Music                                           | AB   | Major, Minor       |     | 93  |
|                                                 | BM   | Area               |     | 92  |
|                                                 |      | Certificate        |     | 94  |
| Music Education                                 | BMED | Area               | Yes | 92  |
| Nursing                                         | AAS  | Two-year           |     | 130 |
| Nursing                                         | BSN  | Area, Four-year    |     | 132 |
| Paralegal Studies                               | AB   | Major              |     | 88  |
| Philosophy                                      | AB   | Major, Minor       |     |     |
| Physical Education                              | AB   | Major              | Yes | 62  |
| Physical Education, Exercise Science            |      | Option             |     |     |

## Programs of Study (Continued)

|                                                        |         |                        |     |         |
|--------------------------------------------------------|---------|------------------------|-----|---------|
| Physical Science Teaching                              | BS      | Area                   | Yes |         |
| Physics                                                | BS      | Major, Minor           |     | 142     |
| Pre-Chiropractic                                       |         | Transfer               |     | 109     |
| Pre-Dentistry                                          |         | Transfer               |     | 109     |
| Pre-Engineering                                        |         | Transfer (Dual Degree) |     | 142     |
| Pre-Forestry                                           |         | Transfer               |     | 101     |
| Pre-Law                                                |         | Transfer               |     | 89      |
| Pre-Medicine                                           |         | Transfer               |     | 110     |
| Pre-Optometry                                          |         | Transfer               |     | 143     |
| Pre-Pharmacy                                           |         | Transfer               |     | 110     |
| Pre-Physician Assistant                                |         | Transfer               |     |         |
| Pre-Physical Therapy                                   |         | Transfer               |     | 110     |
| Pre-Veterinary Medicine                                |         | Transfer               |     | 102     |
| Psychology                                             | AB      | Area, Major, Minor     |     | 68      |
| Radiologic Technology                                  | AAS     | Two-year               |     | 136     |
| Real Estate                                            | AAB     | Two-year               |     | 45      |
|                                                        | BBA     | Option, Minor          |     | 44      |
| Recreation                                             | AB      | Major, Minor           |     | 65      |
| Secondary Science Teaching                             | BS      | Area                   | Yes | 111/143 |
| Social Science                                         | AB      | Area                   | Yes | 89      |
| Social Work                                            | BSW     | Area                   |     | 70      |
| Sociology                                              | AB      | Major, Minor           |     | 71      |
| Sociology (Criminology)                                | AB      | Major                  |     | 72      |
| Spanish                                                | AB      | Major                  | Yes | 84      |
|                                                        |         | Minor                  |     |         |
| Special Education                                      | AB      | Major                  | Yes | 55      |
|                                                        |         | Minor                  |     |         |
| Special Education<br>(Learning and Behavior Disorders) | AB      | Area                   | Yes | 55      |
| (Moderate and Severe Disability)                       | AB      | Area                   | Yes | 57      |
| Speech                                                 | AB      | Major                  | Yes | 77      |
|                                                        |         | Minor                  |     |         |
| Theatre                                                | AB      | Major                  | Yes | 78      |
|                                                        |         | Minor                  |     |         |
| University Studies                                     | BUS, AA |                        |     |         |
| Veterinary Technology                                  | AAS     | Two-year               |     | 102     |
| Women's Studies                                        |         | Minor                  |     |         |

*\*Degree abbreviations on page 17.*

## Who to see

| For                                       | Who                                           | Where           | Phone |
|-------------------------------------------|-----------------------------------------------|-----------------|-------|
| Absences                                  | Your college dean                             |                 |       |
| Academic bankruptcy                       | Your advisor                                  |                 |       |
| Academic probation                        | Assoc. VP for<br>Academic Affairs             | 201 GH          | 2004  |
| Admission (Undergraduate)                 | Office of Admissions                          | 301 HM          | 2000  |
| Advance-registration (Scheduling classes) | Your advisor                                  |                 |       |
| Advisor assignment                        | Dean of your college or<br>department chair   |                 |       |
| Career counseling                         | Career Services Director                      | 322 AY          | 2233  |
| Center for Critical Thinking              | Director                                      | Honors<br>House | 2813  |
| Center for Academic Advising              | Coordinator                                   | 233 AY          | 2084  |
| Center for Academic Success               | Center for Academic Success                   | 220 AY          | 2005  |
| Counseling                                | Center for Academic Success                   | 220 AY          | 2005  |
| Learning Lab                              | Center for Academic Success                   | 220 AY          | 5200  |
| Tutoring                                  | Center for Academic Success                   | 220 AY          | 5200  |
| Change of major                           | Your advisor                                  |                 |       |
| Change of program                         | Your advisor                                  |                 |       |
| Change of schedule                        | Your advisor                                  |                 |       |
| Check sheets                              | Your advisor                                  |                 |       |
| Computing services                        | Office of Information Technology              | 110 GH          | 5000  |
| Cooperative Education                     | Your department chair                         |                 |       |
| Correspondence courses                    | Undergraduate Support Services<br>Coordinator | 201 GH          | 2004  |
| Counseling services                       | University Counseling Center                  | 112 AY          | 2123  |
| Credit by examination                     | Testing Center                                | 501A GH         | 2526  |
| Degree application                        | Office of the Registrar                       | 201 GH          | 2008  |
| Drop/Add                                  | Your advisor                                  |                 |       |
| Extracurricular activities                | Student Activities                            | ADUC            | 2071  |
| Fees                                      | Office of Accounting and<br>Budgetary Control | 202 HM          | 2019  |
| Field Career Experiences                  | Your department chair                         |                 |       |
| Financial Aid                             | Financial Aid Office                          | 305 HM          | 2011  |
| Grades                                    | Your advisor                                  |                 |       |
| Graduation application                    | Office of Registrar                           | 201 GH          | 2008  |
| Honors Program                            | Director                                      | Honors<br>House | 2807  |
| Housing                                   | Housing Office                                | TH              | 2060  |
| International student advising            | Counselor for International<br>Students       | 330 AY          | 2759  |
| Learning Lab                              | Center for Academic Advising                  | 220 AY          | 5200  |
| Library                                   | Library                                       | CCL             | 2200  |
| Loans                                     | Financial Aid Office                          | 305 HM          | 2011  |
| Minority Retention/GUSTO                  | Minority Retention Specialist                 | 301 HM          | 2000  |
| Minority Student Affairs                  | Office of Minority Affairs                    | 309 AY          | 2668  |
| Minority Teacher Education Program        | MTEP Coordinator                              | 301 HM          | 2000  |
| MSU 101                                   | Coordinator of Retention                      | 301 HM          | 2000  |
| Non-traditional and Commuter              | Coordinator Non-Traditional                   | ADUC            | 2102  |
| Counseling                                | Commuter Services                             |                 |       |
| Peer Advising                             | Coordinator of Retention                      | 301 HM          | 2000  |
| Placement Services                        | Career Services                               | 322 AY          | 2233  |
| Professional Lab. Experiences             | Teacher Education Coordinator                 | 801 GH          | 2891  |
| Provisional Studies                       | Coordinator                                   | 232 AY          | 2084  |

## Who to see (Continued)

|                                   |                                            |         |      |
|-----------------------------------|--------------------------------------------|---------|------|
| Records, Access to                | Office of Registrar                        | 201 GH  | 2008 |
| Registration (Scheduling classes) | Your advisor                               |         |      |
| Repeating a course                | Office of Registrar                        | 201 GH  | 2008 |
| Residency reclassification        | Office of Admissions                       | 301 HM  | 2000 |
| ROTC                              | Military Science                           | 308 BA  | 2050 |
| Scholarships                      | Financial Aid Office                       | 305 HM  | 2011 |
| Student employment                | Financial Aid Office                       | 305 HM  | 2011 |
| Student Health Services           | Caudill Health Clinic                      | AY      | 2055 |
| Student Support Services (TRIO)   | Project Director                           | 220 AY  | 2614 |
| Student teaching                  | Director of Student Teaching               | 801 GH  | 2891 |
| Testing                           | Testing Coordinator                        | 501A GH | 2526 |
| Textbooks                         | Director, University Bookstore             | ADUC    | 2081 |
| Transcripts                       | Office of Registrar                        | 201 GH  | 2008 |
| Transfer of credits               | Office of Registrar                        | 201 GH  | 2008 |
| Tutoring                          | Center for Academic Success                | 220 AY  | 5200 |
| TV courses                        | Undergraduate Support Services Coordinator | 201 GH  | 2004 |
| Veterans Affairs                  | Office of Registrar                        | 201 GH  | 2008 |
| Withdrawals                       |                                            | 201 GH  |      |
| From class                        | Your advisor                               |         |      |
| From school                       | Office of Registrar                        | 201 GH  | 2008 |
| Women's Studies                   | Undergraduate Programs                     | 201 GH  | 2004 |
| Workstudy                         | Financial Aid Office                       | 305 HM  | 2011 |
| Writing Center                    |                                            | 106 CB  | 5101 |

### Key to abbreviations:

ADUC--Adron Doran University Center

AY--Allie Young Hall

BA--Button Auditorium

CB--Bert Combs Building

CCL--Camden-Carroll Library

CHC--Caudill Health Clinic

GH--Ginger Hall

HM--Howell-McDowell Administration Bldg.

RA--Rader Hall

TH--Thompson Hall

## Abbreviations (Course Prefixes)

|      |                                                 |      |                                         |
|------|-------------------------------------------------|------|-----------------------------------------|
| ACCT | Accounting                                      | LAT  | Latin                                   |
| AGR  | Agriculture                                     | LSIM | Library Science and Instructional Media |
| ART  | Art                                             | MATH | Mathematics                             |
| BIOL | Biology                                         | MFT  | Manufacturing Technology                |
| BIS  | Business Information Systems                    | MIN  | Mining Technology                       |
| CHEM | Chemistry                                       | MKT  | Marketing                               |
| CMAP | Communications (Advertising - Public Relations) | MNGT | Management                              |
| CMEM | Communications (Electronic Media)               | MS   | Military Science                        |
| CMJN | Communications (Journalism)                     | MSCI | Marine Science                          |
| COMM | Communications (General)                        | MSU  | Orientation                             |
| CIS  | Computer Information Systems                    | MUSC | Music Conducting                        |
| CON  | Construction Technology                         | MUSE | Music Education                         |
| CRIM | Criminology                                     | MUSG | Class Applied Music                     |
| ECON | Economics                                       | MUSH | Music History & Literature              |
| EDAD | Education Administration                        | MUSM | Music Ensembles                         |
| EDAH | Adult and Higher Education                      | MUSP | Private Applied Music                   |
| EDEC | Early Childhood Education                       | MUST | Music Theory                            |
| EDEE | Early Elementary Education                      | MUSW | Music Research                          |
| EDEL | Elementary Education                            | NAHS | Nursing and Allied Health Sciences      |
| EDEM | Early Elementary and Middle Grades              | NUR  | Nursing                                 |
| EDF  | Education Foundations                           | NURA | Associate Degree Nursing                |
| EDGC | Guidance and Counseling                         | NURB | Bachelor of Science in Nursing          |
| EDMG | Middle Grades                                   | PDI  | Personal Development Institute          |
| EDSE | Secondary Education                             | PHED | Physical Education                      |
| EDSP | Special Education                               | PHIL | Philosophy                              |
| EDUC | Professional Education                          | PHYS | Physics                                 |
| EET  | Electricity-Electronics Technology              | PLS  | Paralegal Studies                       |
| ENG  | English                                         | PSY  | Psychology                              |
| FIN  | Finance                                         | RAD  | Radiologic Technology                   |
| FNA  | Fine Arts                                       | REAL | Real Estate                             |
| FRN  | French                                          | REC  | Recreation                              |
| GCT  | Graphics Communications Technology              | REL  | Religion                                |
| GEO  | Geography                                       | ROB  | Robotics                                |
| GEOS | Geoscience                                      | RUS  | Russian                                 |
| GER  | German                                          | SCI  | Science                                 |
| GOVT | Government                                      | SOC  | Sociology                               |
| HIS  | History                                         | SPA  | Spanish                                 |
| HLTH | Health                                          | SPCH | Speech                                  |
| HON  | Honors                                          | SWK  | Social Work                             |
| HS   | Human Sciences                                  | THEA | Theatre                                 |
| IECE | Interdisciplinary Early Childhood Education     | VET  | Veterinary Technology                   |
| IET  | Industrial Education and Technology             | VOC  | Vocational Education                    |
| ITL  | Italian                                         | WEL  | Welding Technology                      |
|      |                                                 | WST  | Women's Studies                         |

## Mission Statement

Morehead State University's 500-acre Eastern Kentucky campus is bordered to the north by the gently rolling foothills of the Daniel Boone National Forest. To the South, the campus is bordered by the shopping district of Morehead, a thriving city of about 10,000 which lies midway between Lexington and Ashland on Interstate 64. The University's educational facilities include more than 50 major structures in a variety of contemporary and traditional architectural styles, a 320-acre experimental farm, a nine-hole golf course, and a 50-acre outdoor learning center at Cave Run Lake.

With a coeducational enrollment of approximately 8,300 and a full-time teaching faculty of 350, the University offers 72 undergraduate degree programs and ten pre-professional programs of study. It draws students from throughout the United States and several foreign countries to participate in its diverse academic and extracurricular life.

Morehead State University's Mission Statement adopted January 19, 1977, and refined December 15, 1993, by the Council on Postsecondary Education follows:

"Morehead State University shall serve as a comprehensive, regionally focused University providing high-quality instruction at the undergraduate and master's degree levels.

Geographic Region. Its programs shall serve primarily the citizens of northeastern and eastern Kentucky.

Institutional Admission Standards. Morehead State University shall admit students to the institution under selective admission standards which exceed the minimum guidelines established by the Council on Postsecondary Education, with only limited exceptions. Institutional guidelines shall be consistent with the systemwide policy for admitting underprepared students, including the removal of academic deficiencies within a specified timeframe. Through this approach, the University seeks to provide both broad access and high quality programs.

Degree Levels. The University shall offer selected baccalaureate degree programs and selected associate degree programs to meet the educational, economic, and cultural needs of the region. Subject to demonstrated need, selected master's degree programs as well as specialist programs in education shall be offered.

Strategic Directions/Program Priorities. Recognizing the uniqueness of its service region, the University shall

stress teacher-preparation programs. Based on constituent needs and on the academic strengths of Morehead State University, academic priorities in addition to programs in the traditional collegiate and liberal studies areas shall include business, nursing and allied health sciences, and fine arts. These strategic priorities translate into a core of liberal arts baccalaureate degree programs, in addition to degree program priorities at the associate [A], baccalaureate [B], master's [M], and education specialist [S] levels that may include the following:--[relevant categories from the Classification of Instruction Programs by level are included in brackets]--education [B, M, S - 13]; communications [M - 09]; English and literature [B, M - 23]; biological sciences [M - 26]; psychology [M - 42]; social sciences [B, M - 45]; business [A, B, M - 52]; nursing and allied health sciences [A, B, M - 51]; fine arts [B, M - 50].

Enhancement of Instruction. Morehead State University recognizes teaching and meeting the academic needs of students as its paramount responsibilities.

Service and Research Functions. The University shall create centers to facilitate applied research, organized public service, and continuing education directly related to the needs of business, industry, and the local schools in the primary service region.

Collaborative Ventures. Emphasis shall be placed on developing and delivering cooperative programming with other higher education institutions and area school systems as well as partnerships with business and industry. The University shall develop and employ technological resources to communicate with other institutions in the fulfillment of its mission. Student advising, articulation agreements, curriculum development, and electronic technology will be employed to facilitate transfer of credits from other institutions toward degree completion.

Efficiency and Effectiveness. Morehead State University shall promote cost effectiveness in academic programming and institutional management. Strategic planning resulting in the elimination of duplicative or unproductive programs is essential while the development of carefully selected new programs compatible with this mission is appropriate. Measures of quality and performance shall be the foundation of the University's accountability system which promotes continuous improvement of programs and service."

## Admissions, Fees, Financial Aid, and Housing

### Admissions

The admission of all undergraduate students into Morehead State University is administered by the authority of the Office of Admissions, which reflects and works within the context of the mission statement of the University and within appropriate state and federal guidelines and policies.

All applicants for admission are required to submit evidence of their prior educational experience and other supporting data for evaluation by the Office of Admissions. This office may request clarification of submitted documents and retains all documents as part of the student's permanent record. The University reserves the right to deny admission (or to admit with certain restrictions) based on an evaluation of the student's supporting data and a determination of immoral character or propensity for violent or other conduct similarly unacceptable for the unrestricted admittance into the University community. The Undergraduate Admission Application requires applicants to report all criminal convictions, other than minor traffic violations. Juvenile offenses shall not be reported. In order to assess the suitability of such applicants to the University community and identify any special conditions for enrollment, the University has established a review process. Copies of the Review Process for Undergraduate Admission Applicants with Reported Criminal Convictions are available upon request in the Office of Admissions. Preliminary admission decisions made by the office prior to receipt of all official and final documentation are temporary and are subject to change.

Students who do not meet the requirements for admission to either four-year or two-year degree programs may appeal for special consideration when past academic performance may not be indicative of ability to do college level work or when there may be errors in supporting documentation. Guidelines for the appeals procedure are available in the Office of Admissions.

Requests for applications or questions concerning admissions should be directed to the Office of Admissions, Morehead State University, Morehead, KY 40351-1689, telephone (606)783-2000, toll free 1-800-585-6781, or fax (606)783-5038. You are encouraged to visit the campus before registering to discuss your intended program of study. Visits may be scheduled weekdays between 8 a.m. and 4:30 p.m. and at other times by appointment.

Completion of admission requirements generally allows you to enroll in any program at Morehead State University. However programs in nursing, radiologic technology, veterinary technology, and teacher education require additional procedures. For additional information

for entering these programs contact the Office of Admissions.

Requirements for admission for high school graduates, GED recipients, transfer students, returning students, international students, special students, and auditors are explained as follows:

### Admission as a Freshman

**High School Graduates.** If you are a graduate of an accredited high school, you will be unconditionally admitted if you meet the Pre-College Curriculum requirements established by the Kentucky Council on Postsecondary Education and have a minimum admission index of 400. The admission index is a numerical score determined by computing the cumulative grade-point average (G.P.A. must be on a 4.0 scale) times 100, and the American College Test (ACT) Composite (or converted SAT) times 10. Those submitting SAT scores may be asked to provide ACT scores after enrollment. Adult-student applicants (21 years of age or older) may substitute results of the Career Planning and Placement test (CPP-II) for ACT or SAT results if pursuing an associate degree.

In order to apply for admission you should submit to the Office of Admissions: (1) a completed Undergraduate Admission and Scholarship Application; (2) official ACT, SAT, or CPP-II results; and (3) a final high school transcript after high school graduation. All applicants for four year degree programs must meet the Pre-College Curriculum for unconditional admission to the University. Applicants who do not meet the PCC requirements are eligible to be admitted "conditionally." Students who are admitted conditionally must take specified courses to remove PCC deficiencies. Removal of PCC deficiencies will be monitored by the Office of the Associate Vice President for Academic Affairs. Associate degree applicants do not need to meet PCC requirements for admission. Nevertheless, their PCC deficiencies will be assessed and removed.

Students who do not meet the minimum Admissions Index but who have an Index of at least 350 and an ACT Composite Score of at least 14 may be admitted "pro-visionally." The competency-based Provisional Studies Program administered by the Center for Academic Advising under the oversight of the Associate Vice President for Academic Affairs provides academic instruction and support services designed to assist students in meeting entry level requirements for admission to two-year or four-year degree programs.

Enrollment as a Provisional Studies student does not guarantee admission to degree programs at the University. For continued matriculation at the University, standards must be met within a period of time as specified by the Center for Academic Advising. (See Provisional Studies Program.)

**GED Recipients.** If you are a General Education Development (GED) recipient, you will be considered for admission on the same basis as a high school graduate.

In order to apply for admission you should submit to the Office of Admissions: (1) a completed Undergraduate Admission and Scholarship Application; (2) the GED scores; (3) the High School Equivalency Certificate; and (4) official ACT, SAT, or CPP-II results if applicable.

### Admission as a Transfer Student

You are eligible for admission if your grade-point average (G.P.A.) is 2.0 or better on a 4.0 scale on at least twenty-four (24) semester hours of college work, and you are in good standing at all previously attended institutions. Applicants for transfer admission to four-year degree programs who did not complete the PCC and who have completed fewer than twenty-four (24) semester hours are eligible for conditional admission. Students admitted conditionally must take specified courses to remove PCC deficiencies. Removal of PCC deficiencies will be monitored by the Office of the Associate Vice President for Academic Affairs. If your G.P.A. is less than a 2.0 on a 4.0 scale, you may be considered for admission on probationary status.

Transfer students who are admitted on probation will be monitored and will be expected to earn a 2.0 G.P.A. at MSU during the first semester of attendance. Students who do not earn the 2.0 G.P.A. will be subject to academic dismissal. Students academically dismissed will be given the opportunity to appeal.

Transfer students admitted on probation and with fewer than 12 semester hours of transfer credit will be, at the discretion of the Director of Admissions, subject to the same admissions criteria as that of an entering freshman.

To be admitted to the University as a transfer student from other colleges and universities, you should submit to the Office of Admissions: (1) a completed Undergraduate Admission and Scholarship Application; (2) official transcripts from all colleges or universities previously attended; and (3) the Transfer Recommendation Form (available from the Office of Admissions, MSU) from all institutions previously attended. Students who have earned fewer than twenty-four (24) semester hours credit must submit ACT or SAT scores and high school and college transcripts to facilitate appropriate advising and placement.

**Baccalaureate Program Transfer Frameworks.** Morehead State University fully supports the Block Transfer of Academic Credit Policies as defined by the Kentucky Council on Postsecondary Education. Transfer students bringing Block course certification to the University from other Kentucky public institutions can be assured that these certifications will be honored. Questions pertaining to the Block Transfer of Academic Credit Policies should be directed to the Office of the Registrar, 201 Ginger Hall,

Morehead State University, Morehead, Kentucky 40351-1689.

**Transfer of Credits from Regionally Accredited Colleges.** Credits you have earned from **regionally accredited** colleges or universities will be accepted for transfer (but may not be accepted toward a particular degree.)

Courses in which you have a grade lower than "C" may not be transferred for credit in certain majors or areas of concentration. Consult your academic advisor.

**Transfer of Credits from Non-regionally Accredited Colleges.** All transfer credit from **non-regionally accredited** institutions will be individually evaluated by the dean of the college in which the student is seeking a degree. Transfer credit will be granted only when:

1. The student has completed a minimum of 12 semester hours at Morehead State University and achieved a minimum grade point average of 2.0.
2. The course being transferred corresponds to one offered in the Morehead State University Undergraduate Catalog in effect at the time the transfer is sought.
3. The student has earned a grade of "C" or higher in the course for which transfer credit is being sought.
4. The course was taught by an instructor whose academic credentials meet the Commission on College (SACS) requirements (e.g. generally, at least the masters degree in the teaching field with 18 graduate hours in the teaching field).

Credit for transfer which was earned more than ten years before transfer is sought may not be applicable to current degree or licensure requirements. For a review see the dean of the college in which the transfer is sought.

### Admission as a Returning Student

If you discontinue your enrollment at MSU for one semester (excluding summer terms), you must submit a completed Undergraduate Admission and Scholarship Application to be readmitted to the University.

If you have attended another institution since you last attended MSU, you must submit: (1) a completed Undergraduate Admission and Scholarship Application, (2) an official transcript from any institution attended, and (3) the MSU Transfer Recommendation Form from the institution from which you are transferring.

### Admission as an International Student

To be admitted as an international student, you must submit to the Office of Admissions: (1) the International Student Undergraduate Admission Application; (2) official records of previous educational experiences; (3) evidence of proficiency in the English language, official scores on the Test of English as a Foreign Language (TOEFL) or the Michigan Examination (a minimum score of 500 is required on the TOEFL and a minimum score of 82 is required on the Michigan Examination); and (4)

official verification of financial resources. You should apply at least two months before the semester or term in which you plan to enroll. All applicants for four-year degree programs must meet the Pre-College Curriculum for unconditional admission to the University. Applicants who do not meet the PCC requirements are eligible to be admitted "Conditionally." Students who are admitted conditionally must take specified courses to remove PCC deficiencies. To assist in the process of determining whether students have completed the Pre-College Curriculum and to assist in the proper placement of students in the areas of English, mathematics, science and social studies, all entering freshmen must take the ACT exam upon arrival unless valid ACT or SAT scores are on file. Entering transfer students with fewer than 24 semester hours of credit completed may be asked to take the ACT exam for the same reasons. Students with an ACT composite score of 19 or higher will be considered proficient in all areas. Students who do not have a 19 composite ACT will be placed in the appropriate level course according to the subject area subscores. Removal of PCC deficiencies will be monitored by the Office of the Associate Vice President for Academic Affairs.

If you are transferring to the University from an accredited institution of higher education in the United States, you must submit: (1) the International Student Undergraduate Admission Application; (2) an official transcript from the institution from which you are transferring; and (3) the Transfer Recommendation Form from the institution from which you are transferring; and (4) official verification of financial resources.

**Transfer of Credits.** Credits earned from international institutions may be applied toward a degree program at MSU. Credits will only be considered only after they have been evaluated by the International Education Research Foundations, Inc., Credentials Evaluation Service, P.O. Box 24040, Los Angeles, CA 90024. It is the student's responsibility to contact the agency and pay all service fees.

### Admission as a Special Student

If you wish to register for a particular course for credit but you are not interested in working toward a degree, you may enter the University as a special student. You should submit to the Office of Admissions a completed Undergraduate Admission and Scholarship Application. Special students are not eligible for financial assistance.

If you enroll as a special student and later wish to pursue a degree, you may do so by completing the appropriate admission procedure. No more than twenty-four (24) hours of course work completed as a special student may be used to fulfill degree requirements.

### Admission as an Auditor

If you wish to audit a class, you need only submit to the Office of Admissions a completed Undergraduate Admission and Scholarship Application. Although credit cannot be given for courses audited, such courses are

recorded on your transcript. Tuition and fees are the same for auditing a course as they are for taking a course for credit.

### Admission as a Visiting Student

If you are currently attending another institution of higher education, but wish to take course work at MSU to complete degree requirements at another institution, you may be eligible for admission as a visiting student. You should submit to the Office of Admissions: (1) the completed Undergraduate Admission and Scholarship Application, (2) the visiting student recommendation form (to be completed by the student's primary institution.)

### Admission as a High School Student

Students currently enrolled in high school as a junior or senior may be eligible for admission to the high school student program. A student must submit to the Office of Admissions a completed Undergraduate Admission and Scholarship Application.

The application must include the student's high school grade point average and ACT scores. The high school counselor should also indicate whether or not the student is expected to meet the Kentucky Pre-College Curriculum and any expected deficiencies shall be noted. Students must have a minimum ACT Composite score of 14 to be admitted to the high school student program. Area subscores from the ACT exam will be utilized for academic advising and appropriate placement in course work.

Students who have not taken the ACT exam must have a minimum 2.5 grade point average and are not permitted to enroll for course work in the areas of English and mathematics until the ACT scores are on file in the Office of Admissions.

Students who are not expected to meet the Kentucky Pre-College Curriculum may not enroll for course work in the area of the anticipated deficiency or deficiencies.

Any exception to the above requirements must have the approval of the Director of Admissions and the Associate Vice President for Academic Affairs.

### Service Members Opportunity College

Morehead State University has been designated a service members opportunity college and awards military credits in accordance with SOC and American Council on Education (ACE) guidelines. For more information, contact the Office of the Associate Vice President for Academic Affairs.

### Housing

Housing is provided in 13 residence halls and over 175 family housing units. All residence halls and family housing apartments are within less than a 10-minute walk of on-campus classrooms.

Residence hall room rental ranges from \$744 to \$877 per semester. Family housing accommodations range from \$215 to \$350 per month. (These are 1997-98 rates.)

All single, full-time undergraduate students who are under the age of 21 and have earned fewer than sixty hours of college credit must live in University housing and enroll each semester in a minimum \$300 dining club plan. Single parents with custody of a child, married students, veterans, transfer students with 60+ credit hours, and students commuting from their parent's home address, may qualify for a waiver of this policy. **Housing/Dining waiver requests must be approved by the close of business on the last day before registration. Students applying for the waiver after this deadline may be assessed mandatory fees based on the University's refund policy.** (See refund policy section.) When you complete the Residence Hall Application/Data Sheet, you may indicate the residence hall in which you wish to live and the person(s) you would like to have for a roommate. (All roommate requests must be a mutual request.) Requests for room/roommate changes may be made after the semester begins. **ALL CHANGES** must be approved by the Office of Student Housing.

To apply for University housing, you must indicate on the admissions application your intent to reside on campus. From the admissions application, a Housing Application/Data Sheet will be generated and mailed to you. Complete and return the Housing Application/Data Sheet with a deposit (\$75 for Residence Halls/\$100 for Family Housing) to the Office of Student Housing. Assignments are made based on the date the **housing application and deposit** are received in the Office of Student Housing. The deposit is refundable **ONLY** if canceled in writing to the Office of Student Housing by July 1.

For additional information about housing, contact the Office of Student Housing, Morehead State University, UPO Box 2525, Thompson Hall, Morehead, KY 40351-1689, telephone (606)783-2060, fax no. (606)783-5062.

## Residence Halls

Room rent for each term is due in full at the beginning of the term. Rates include telephone service and basic television cable. Deposit (refundable) \$75.00.

|                                     | Weekly  | Semester | Summer term |
|-------------------------------------|---------|----------|-------------|
| <b>Women's Halls</b>                |         |          |             |
| East Mignon                         | \$62.00 | \$805.00 | \$245.00    |
| Mignon                              | \$62.00 | \$805.00 | \$245.00    |
| Nunn                                | \$62.00 | \$805.00 | \$245.00    |
| Regents - (all freshmen)            | \$60.00 | \$783.00 | \$237.00    |
| Thompson                            | \$66.00 | \$877.00 | \$259.00    |
| <b>Men's Halls</b>                  |         |          |             |
| Alumni Tower                        | \$60.00 | \$783.00 | \$237.00    |
| Cooper                              | \$60.00 | \$783.00 | \$237.00    |
| Gilley Apartments (fraternity only) | \$55.00 | \$746.00 | \$221.00    |
| Wilson (freshmen)                   | \$60.00 | \$783.00 | \$237.00    |

## Co-educational Halls

|                                  |         |                            |                         |
|----------------------------------|---------|----------------------------|-------------------------|
| Butler                           | \$58.00 | \$744.00                   | \$229.00                |
| Cartmell                         | \$60.00 | \$783.00 *                 | \$237.00                |
| Fields                           | \$66.00 | \$877.00                   | \$259.00                |
| Mignon Tower                     | \$62.00 | \$805.00                   | \$245.00                |
| West Mignon                      | \$62.00 | 805.00                     | \$245.00                |
| University Farm (AG. Department) | \$29.00 | \$358.00                   | (plus work assignments) |
| Mays Hall Apartments*            |         | \$210.00 per month/student | Standard occupancy      |

\*Mays Hall Apartments are offered on the priority basis to: (1)non-traditional students (23 years of age and older), (2)graduate students, (3)students needing year-round housing with priority given to full-time upper class students, and (4)married couples. Rates subject to change.

Rental rates as per above are established for standard occupancy of two per room or four per suite.

## Family Housing

|                                                    |          |
|----------------------------------------------------|----------|
| Deposit (refundable)--\$100.00                     |          |
| One bedroom (air-conditioned - furnished) per mo   | \$270.00 |
| One bedroom (air-conditioned - unfurnished) per mo | \$245.00 |
| One bedroom (furnished) per mo . . . . .           | \$260.00 |
| One bedroom (unfurnished) per mo . . . . .         | \$235.00 |
| Studio (efficiency) apartment (furnished) per mo . | \$240.00 |
| Studio (efficiency) apartment (unfurnished) per mo | \$215.00 |
| *two bedroom unit (unfurnished) per mo . . . . .   | \$330.00 |
| *three bedroom unit (unfurnished) per mo . . . . . | \$350.00 |

Rates include utilities, telephone, and basic TV cable. All rates are subject to change without notice by action of Kentucky Council on Postsecondary Education and/or the Morehead State University Board of Regents.

## Fees

Every effort is made to hold cost to a minimum. If you are a student with less than 60 credit hours, you pay only the registration, housing, and meal fees and a few minor incidental fees when you register at the beginning of each semester. If you are a student with 60 credit hours or more, you pay only the registration and housing fees and a few minor incidental fees when you register at the beginning of each semester. Books and supplies can be purchased at reasonable prices at the University Bookstore. Books may be sold back to the store at the end of the semester. Meals are purchased either on a pay-as-you-go basis or in advance through a Dining Club.

## Classification of Residence for Admission and Tuition Assessment Purposes

As a matter of policy, access to higher education is provided so far as feasible at reasonable cost to residents of the state. It is the long-standing practice of the Council on Postsecondary Education to require students who are not Kentucky residents to meet higher admission standards and to pay a higher level of tuition than resident students.

The responsibility for registering under the proper residency classification is that of the student. It is the student's obligation to raise questions concerning residency classification and make application for change of residency classification with the administrative officials of the institution. A student classified as a resident who becomes a nonresident shall be required to notify immediately the proper institutional officials. However, if the student fails to notify the institution's officials of the change in status, institutional officials may investigate and evaluate the current status of the student regardless of the source of information. A student classified as a nonresident is considered to retain that status until the student makes written application for reclassification in the form prescribed by Section 4(3) of 13 KAR 2:045 and is officially reclassified by the proper administrative officials.

The Council on Postsecondary Education Residence Classification Policy (13 KAR 2:045) is published in its entirety in this catalog. (See appendix.)

**Tuition for non-Kentucky residents** is established according to a different rate structure than that for Kentucky residents (all other fees are the same for non-Kentucky residents as for Kentucky residents). Changes in circumstances may arise which may affect the residency and thus fee-assessment for students.

Students or prospective students with questions related to their residency for fee assessment purposes should contact the Office of Admissions for additional information or for the necessary forms used in making a determination.

**Full-time\*** refers to enrollment for 12 credit hours or more during the fall or spring semester.

**Part-time** refers to enrollment for fewer than 12 credit hours during the fall or spring semester.

**Residency** is an in-state/out-of-state classification for fee assessment purposes; policy guidelines are established and approved by the Kentucky Council on Postsecondary Education.

**Tuition** is the fee charged for class enrollment.

**Undergraduate** is a student who has not completed the requirements for a bachelor's degree.

## Tuition

### Full-time tuition\*

Full-time students are undergraduates who enroll for 12 hours or more during the fall and spring terms. Tuition is assessed for full-time students at the full-time rate. The full-time rate applies to undergraduate students taking 12 - 18 credit hours per semester. An additional per credit hour fee will be charged to undergraduate students enrolled for more than 18 credit hours.

All full-time students receive the student newspaper, *The Trail Blazer*. Full-time students enrolled for fall and spring semesters are also admitted free of charge to most on-campus athletic events.

## Part-time fees

Part-time students are undergraduates who enroll for less than 12 credit hours of course work during the fall and spring terms. Tuition is assessed by the semester hour for part-time students.

## Registration Billings

Billings will be mailed approximately three to four weeks prior to registration to those students who advance registered for classes. If you advance register for your classes, you have the following options in completing the registration process:

1. Pay your fees in advance and avoid Business Days;
2. Pay your fees at Business Days;
3. Pick up a refund check, due as a result of financial aid awarded in excess of your fees;
4. Make arrangements for payment of your fees through deferred payment with the Office of Accounting and Budgetary Control at the time of Business Days.

Morehead State University accepts the following methods of payment:

- |               |                       |
|---------------|-----------------------|
| 1. Cash       | 5. American Express   |
| 2. Check      | 6. Discover           |
| 3. MasterCard | 7. Deferred Payment** |
| 4. Visa       | 8. Financial Aid      |

All fees are subject to change without notice by action of the Kentucky Council on Postsecondary Education and/or the Morehead State University Board of Regents.

\*\*Morehead State University reserves the right to deny credit based upon prior payment history.

A list of fees is available upon request.

## Student Health Service Fee

The fee is consolidated with tuition and mandatory fees for all students (undergraduate and graduate) each semester. Students are entitled to the basic services of the Caudill Health Clinic.

## Refunds

Students withdrawing from school during any semester or term must arrange for their withdrawal with the Office of the Registrar. No refunds will be made unless the withdrawal is made through the proper channels. If a student decides not to attend Morehead State University and completes an official withdrawal form before the first day of classes\*, all fees paid will be returned to the student. Students withdrawing after the first day of classes will be subject to the University's normal fee refund policy.

### Fall or Spring Semester Refund Adjustments

| On-campus/ Extended Campus/ Day & Evening Classes | Percent Refund |
|---------------------------------------------------|----------------|
| First 5 class days* of the semester               | 75%            |
| Next 10 class days of the semester                | 50%            |
| Next 5 class days of the semester                 | 25%            |

No refunds are given after the first

20 days of the semester

\*Class days begin the first day of the semester

### Summer Session Refund Adjustments On-campus/ Extended Campus

|                                  | <u>Percent Refund</u> |
|----------------------------------|-----------------------|
| First 2 class days*              | 75%                   |
| Next 4 class days of the session | 50%                   |
| Next 2 class days of the session | 25%                   |

No refunds are given after the first  
8 days of the session

\*Class days begin the first day of the session.

Adjustable fees include tuition, housing, and course fees.

## Financing Your College Education at MSU

The University offers a broad program of financial assistance to eligible students in the form of grants, loans, scholarships, and work.

These are terms you might encounter when you apply for financial aid.

*Financial aid package* is a combination of different types of financial aid that may make up an award.

*Grant* is a type of aid that generally requires no repayment. Eligibility is based on calculated financial need.

*Need* is the difference between the amount it will cost you to attend MSU for an academic year and the expected contribution from your family. It is a primary factor in determining eligibility for most available aid.

*Loan* is a type of aid that must be repaid, generally after the student is out of school. These low-interest loans may be based on calculated financial need, or some loans may not be need-based.

*Scholarships* are generally awarded on the basis of academic achievement or special talent. They do not have to be repaid. Eligibility requirements and obligations vary from scholarship to scholarship.

*Work-study Programs* provide part-time employment for eligible students to help with educational expenses. The work schedule is built around the student's academic schedule.

In many cases, financial aid is made up of a combination of the various types of assistance available (a financial aid package). Students who have been admitted and are enrolled for credit in a degree program are eligible for financial aid funds provided they also meet all other requirements for aid. Financial assistance is granted, depending upon the availability of funds, to all eligible students regardless of sex, race, color, or ethnic origin. About 70 percent of the students attending MSU receive financial aid.

The type and amount of financial aid is generally based upon demonstrated financial need, academic achievement, test scores, and other personal talents and interests. Financial need is determined through analysis of the Free Application for Federal Student Aid (FAFSA), available in the Office of Financial Aid, MSU, 305 Howell-

McDowell, Morehead, KY 40351-1689, telephone (606)783-2011, or the office of any high school guidance counselor. The FAFSA is analyzed to determine the expected contribution of the student and parents or guardian toward educational expenses.

Apply for financial aid by April 1 for the coming academic year or for the coming summer terms. Applying before the deadline increases chances of receiving the aid.

Most financial aid is credited to students' accounts, one-half of the year's award for fall semester registration and the other half for spring semester registration.

For detailed information on financial aid, request the *Student Financial Aid Consumer Information* booklet from the Office of Financial Aid.

## Selected Service Registration Requirement

Male students must be registered with the Selective Service (if required to register) before they can receive Title IV student financial aid (Federal Pell Grant, Federal SEOG, Federal Workstudy, Federal Perkins Loan, Federal Direct Loan, Direct Plus Loan). Contact the Office of Financial Aid for more information.

## Satisfactory Academic Progress for Financial Aid Recipients

The Higher Education Act mandated institutions of higher education to establish minimum standards of "satisfactory academic progress" for students receiving financial assistance. This means that a student must make progress toward obtainment of an appropriate degree or certificate during each term that the student is enrolled. These standards are applicable to all federal, state, and institutional aid programs administered by Morehead State University.

At Morehead State University, in order to continue to receive financial aid, a student must demonstrate satisfactory academic progress by completing a minimum number of the total hours attempted, and by also maintaining a minimum grade point average. MSU's satisfactory academic progress schedule is as follows:

### Undergraduate

1. A student must successfully complete a minimum of 75 percent of the credit hours attempted during the last period of enrollment. Successful completion for this purpose is defined as receiving a grade of "D" or better.
2. If 1-16 hours have been attempted, a student must have at least a 1.6 cumulative G.P.A.  
If 17-30 hours have been attempted, a student must have at least a 1.7 cumulative G.P.A.  
If 31-45 hours have been attempted, a student must have at least a 1.8 cumulative G.P.A.  
If 46-60 hours have been attempted, a student must have at least a 1.9 cumulative G.P.A.  
If 61 or more hours have been attempted, a student must have at least a 2.0 cumulative G.P.A.

3. A student has attempted no more than 192 undergraduate hours for a bachelor's degree, or no more than 96 hours for an associate's degree.

### Graduate

Graduate students will be considered to be making satisfactory academic progress for financial aid purposes as long as all of the following requirements are met:

1. A student must successfully complete a minimum of 75 percent of the credit hours attempted during the last semester of enrollment. Successful completion for this purpose is defined as receiving a "C" or better.
2. A student must maintain a minimum of 3.0 cumulative G.P.A.
3. A student has attempted no more than 54 graduate hours at Morehead State University. (Exception: Those students pursuing a degree in clinical psychology will be permitted to attempt no more than 90 graduate hours at MSU.)

### Policies and Procedures

The specific policies and procedures to be used in applying the satisfactory progress standards are outlined below:

1. Satisfactory progress will be evaluated at the end of each semester.
2. Hours attempted for purposes of this policy will be defined as those for which a student receives a grade of A, B, C, D, E, F, I, IP, R, U, N, W, WP, or WF.
3. For undergraduate students, grades of E, F, I, IP, R, U, N, W, WP, and WF will not qualify as successful completion of hours attempted. For graduate students, grades of D, E, F, I, IP, R, U, N, W, WP, and WF will not qualify as successful completion of hours attempted.
4. Non-credit remedial courses, courses taken for audit, and courses in which grades of K or P are received are not figured in the calculation of a student's grade point average and, therefore, are not calculated as hours attempted or completed in determining satisfactory academic progress.
5. If otherwise eligible, students will be given financial aid during a term in which they may be repeating a course.
6. A student who fails to maintain satisfactory progress as defined will not be permitted to receive federal, state, or institutional financial aid.

### Procedures for Appeal by Students Who Fail to Maintain Satisfactory Progress Standards

Students who fail to meet satisfactory progress standards as defined may appeal the ruling to the Office of Financial Aid if they believe extenuating circumstances led to their failure to maintain satisfactory progress. Those desiring to appeal must do so in writing on the Satisfactory

Progress Appeals Form and must attach supporting documentation. Copies of the appeals form may be obtained in the Office of Financial Aid. Students will be notified in writing of the action taken on their appeal.

### Reinstatement of Financial Aid Eligibility

Should a student's financial aid eligibility be terminated for failure to maintain satisfactory progress as defined, the eligibility for financial aid will not be reinstated until the student enrolls for a subsequent academic term (fall, spring, or summer term) at his or her own expense and completes the term satisfying the satisfactory progress definition.

Financial aid eligibility will be reinstated immediately for all students whose appeals are approved.

### Scholarship and Awards

Scholarships and awards may and often do require higher standards for renewal. Please consult your award information and the University's renewal guidelines regarding your particular scholarship award. Satisfactory progress for scholarships is also evaluated at the end of each semester. The renewal grade point averages are as follows:

| Name of Scholarship/Award                                    | Renewable Criteria            |                                 |
|--------------------------------------------------------------|-------------------------------|---------------------------------|
|                                                              | Freshman<br>G.P.A.<br>Minimum | Upperclass<br>G.P.A.<br>Minimum |
| <b>Presidential Scholarship</b><br>up to \$6,000 per year    | 3.00                          | 3.25                            |
| <b>Regional Honors Scholarship</b><br>up to \$3,000 per year | 3.00                          | 3.25                            |
| <b>Regents Scholarship</b><br>up to \$2,000 per year         | 2.75                          | 3.00                            |
| <b>Tuition Assistance Grant</b><br>up to \$2,000 per year    | 2.75                          | 3.00                            |
| <b>Transfer Student Award</b><br>up to \$2,000 per year      | 3.00                          | 3.00                            |
| <b>Alumni Award</b><br>up to \$750 per year                  | 2.75                          | 3.00                            |
| <b>Minority Student Leadership Award</b><br>\$650 per year   | 2.50                          | 2.50                            |
| <b>Leadership Award</b><br>\$650 per year                    | 2.50                          | 2.50                            |

### Scholarship and Awards

To be considered for a scholarship students must submit a completed Undergraduate Admission and Scholarship Application to the Office of Admissions and be admitted to MSU as an incoming freshman or transfer student. Applications can be obtained through the Office of Admissions or through area high school guidance offices. The priority filing deadline is March 15. The following are descriptions of the scholarships awarded through the Office of Financial Aid and Scholarships:

**Presidential Scholarship:** Value per year varies with a maximum of \$6,000. To qualify you must be admitted to MSU as an entering freshman and meet one of the following criteria:

1. be a National Merit Scholar or Finalist; \$6,000

2. be a valedictorian or salutatorian from MSU's Kentucky service region, with an ACT composite of at least 30; \$5,000
3. be a National Merit Semi-Finalist or a Kentucky Governor's Scholar (who has successfully completed the Governor's Scholars program) with an ACT Composite of at least 28; \$4,000
4. other applicants with a minimum G.P.A. of 3.75 and a minimum ACT Composite of 28 or any Kentucky Governor's Scholars (who has successfully completed the Governor's Scholars Program) will be considered for awards that range from \$2,000 to \$4,000.

**Criteria for renewal:** Achieve a minimum cumulative 3.00 G.P.A. during each of the first two semesters and a minimum cumulative 3.25 G.P.A. for each semester thereafter.

*Note:* Students awarded the presidential Scholarship are required to participate in the Leadership Program.

**Regional Honors Scholarship:** Value per year varies as follows:

- highest ranking ACT Composite of 28 or higher-\$3,000, second highest ranking-\$2,500;
- highest ranking ACT Composite of 25 or higher-\$2,500, second highest ranking-\$2,000
- highest ranking ACT Composite of 20 or higher-\$2,000, second highest ranking-\$1,500.

**Minimum criteria for consideration:**

1. be admitted to MSU as an entering freshman;
2. be a graduate of a high school within MSU's Kentucky service region;
3. be recommended by high school;
4. be the highest ranking or second highest ranking academic achiever coming to MSU from that high school;
5. have at least a cumulative 3.50 high school G.P.A. (on a 4.0 scale) based on seven semesters of work.

**Criteria for renewal:** Achieve a minimum cumulative 3.0 G.P.A. during each of the first two semesters and a minimum cumulative 3.25 G.P.A. thereafter.

*Note:* Students awarded the Regional Honors Scholarship are required to participate in the Leadership Program.

**Regents Scholarship:** Value per year varies based on Admissions Index as follows:

- 650+ - \$2,000;
- 600-649 - \$1,500;
- 550-599 - \$1,000;
- 500-549 - \$750.

To qualify, you must be admitted to MSU as an entering freshman, meet the Admissions Index as stated above, and have a minimum ACT Composite of 20.

**Criteria for Renewal:** Achieve a minimum cumulative 2.75 G.P.A. during each of the first two semesters and a minimum cumulative 3.0 G.P.A. for each semester thereafter.

**Tuition Assistant Grant (TAG):** Value per year varies. **Minimum Criteria for consideration:**

1. be admitted to MSU as an **out-of-state** student;
2. have a minimum ACT Composite of 20;
3. be admitted to MSU as a new freshman, or a new transfer student (with at least 12 hours of completed college work);
4. new freshmen must have an Admission Index of 500-549 for \$1,200 award; 550-599 for \$1,500 award; 600-and over for \$2,000 award;
5. new transfer students must have a transfer G.P.A. of 3.0 for \$1,200 award, 3.25 for \$1,500, 3.5 for \$2,000.

**Criteria for renewal:** Achieve a minimum cumulative 2.75 G.P.A. during each of the first two semesters and a minimum 3.0 G.P.A. for each semester thereafter. Transfer students must maintain a minimum cumulative 3.0 G.P.A.

**Transfer Student Award:** Value varies based on Transfer Index as follows:

- 650+ - \$2,000
- 600-649 - \$1,500
- 550-599 - \$1,000
- 500-549 - \$750

**Minimum criteria for consideration:**

1. be admitted to MSU as a transfer student from any accredited college or university;
2. be a resident of Kentucky;
3. have completed at least 12 hours of college work;
4. have a minimum ACT Composite of 20.

**Alumni Award:** \$500 or \$750 value per year.

**Minimum criteria for consideration:** To be considered for the Alumni Award, at least one parent or grandparent of the applicant must be an active member of the MSU Alumni Association (as defined and certified by the Office of Alumni Relations). **In addition, the applicant must:**

1. be admitted to MSU as an entering freshman or transfer student;
2. have a minimum ACT Composite of 18 for a \$500 award; 20 for a \$750 award;
3. have an Admissions Index of at least 500; transfer students must have at least a cumulative 3.0 G.P.A. (on a 4.0 scale) for the equivalent of at least one full term.

**Criteria for renewal:** Achieve a minimum cumulative 2.75 G.P.A. during each of the first two semesters and a minimum cumulative 3.0 G.P.A. for each semester thereafter. Transfer students must maintain a minimum 3.0 G.P.A.

**Minority Student Leadership Award:** \$650 value per year.

**Minimum criteria for consideration:**

1. be admitted to MSU as an entering freshman;
2. be an individual whose predominant ethnic background is African American, Hispanic, American Indian or Alaskan native, Asian, or Pacific Islander;
3. be a Kentucky resident;

4. have demonstrated achievement in academic and/or extracurricular activities.

**Criteria for renewal:** Maintain a minimum cumulative 2.5 G.P.A.

*Leadership Award:* \$650 value per year.

**Minimum criteria for consideration:**

1. be admitted to MSU as an entering freshman;
2. have exhibited strong leadership and achievement capabilities through school and community activities;
3. have a minimum ACT Composite of 18;
4. have a minimum 2.5 high school G.P.A. based on seven semesters of work.

**Criteria for renewal:** Maintain a minimum cumulative 2.5 G.P.A.

## Admission Index

The Admission Index is calculated as follows:

1. Multiply your high school grade-point average (G.P.A. on a 4.0 scale) by 100;
2. Multiply your ACT Composite score by 10 (SAT scores will be converted);
3. Add your total G.P.A. score and total ACT score. The results will be your Admission Index score.

## Transfer Index

The Transfer Index is calculated as follows:

1. Multiply your Transfer grade-point average by 100;
2. Multiply your ACT Composite score by 10 (SAT scores will be converted);
3. Add your total G.P.A. score and the total ACT score. The result is your Transfer Index score.

All recipients of the above scholarships and grants must agree to continuous full-time enrollment (fall and spring semesters) and continuous residence in University housing (fall and spring semesters). Recipients from Rowan and contiguous counties living at home and commuting to campus may request a waiver of the requirement to live in university housing.

The following are descriptions of scholarships offered through other university departments and programs:

**Honors Program Scholarship.** \$600 renewable award. Obtain scholarship applications from the Director, Academic Honors Program, Morehead State University, UPO Box 697, Morehead, KY 40351-1689.

**Army Reserve Officers' Training Corps Scholarship.** Awarded for periods from two to four years; pays for tuition, textbooks, laboratory fees, other specified educational expenses, and a tax-free subsistence allowance of \$150 per school month. Contact the Professor of Military Science, MSU, UPO Box 1361, Morehead, KY 40351-1689, telephone (606)783-2050.

**E. O. Robinson Mountain Fund Nursing Student Scholarship.** For needy nursing students from Eastern Kentucky; maximum annual award is \$500. Contact the Office of Financial Aid.

**Northeast Kentucky Hospital Foundation Nursing Student Scholarship.** For needy students from Northeastern Kentucky who demonstrate acceptable academic achievement. Contact the Office of Financial Aid.

**Athletic Scholarships.** Based on athletic potential, these scholarships are limited in number by regulation or institutional policy. Contact the coach of the sport in which you wish to compete or the Director of Athletics, MSU, UPO Box 698, Morehead, KY 40351-1689, telephone (606) 783-2088.

**Departmental Scholarships.** The University offers a number of departmental scholarships in areas such as music, debate, speech, theatre, and radio and television. Contact the department in which you have an interest to explore specific scholarship opportunities.

**Outside Funded Scholarships.** Granted by agencies outside the University, these are administered through the Office of Financial Aid in accordance with instructions of the donor. If you are to receive such an award, you should ask the donor agency to mail the award and complete instructions for its disposition to the Office of Financial Aid, MSU, Morehead, KY 40351-1689. The telephone number is (606) 783-2011.

For more information on scholarships and awards, contact the Office of Financial Aid for a brochure.

## Financial Aid

**Grants.** Repayment is normally not required for the Federal Pell Grant, Federal Supplemental Educational Opportunity Grant (SEOG), or College Access Program Grant (CAP). To be considered for these grants you must complete the FAFSA and the MSU Student Financial Aid Personal Data Sheet. Request forms from MSU's Office of Financial Aid or any high school guidance counselor.

**Federal Pell Grant.** A federally-funded program; eligibility and amount are determined by a standard financial needs analysis formula. Awards may range up to \$3,000 (est.) per academic year.

**Federal SEOG.** A federally-subsidized award based on need. Awards at MSU average approximately \$400 per year.

**CAP Grant.** A state program based on need. Grants are estimated at \$1,060 per academic year.

**Work-Study Programs.** The work-study programs provide salaried work in a variety of offices and departments at the University; participants are paid every two weeks. Students earn the current minimum wage.

**Federal Work-Study Program (FWSP).** A federally-subsidized program based on need.

**Institutional Work-Study Program (IWSP).** Sponsored by the University, this program is geared to students with specific skills, talents, or experience.

**Loans.** Loans must be repaid, and are available in differing amounts and under varying conditions. Types are Federal Perkins Loan, Federal Direct Loan, Federal Direct Plus Loan, and the Emergency Loan Fund.

**Federal Perkins Loan.** A federally-subsidized program based upon financial need and available funds. Eligible students may borrow (at 5 percent interest) up to \$4,500 for the first two years of study, with a maximum of \$9,000 for undergraduate work.

**Federal Direct Loan.** Allows students to borrow money directly from the institution. Maximum undergraduate loan is \$2,625 a year for the first and \$3,500 for the second year, and \$5,500 a year for juniors and seniors, to be repaid at a maximum rate of 8.25 percent. An origination fee of 4 percent of the face value is deducted from the loan by the lender. These loans may be need-based (subsidized) or non need-based (unsubsidized).

**Federal Direct PLUS Loan.** Allows parents and/or stepparents of dependent undergraduate students to borrow money from the institution for student educational expenses. The maximum rate of interest is 9 percent, and the first payment is due within 60 days of disbursement.

**Emergency Loan Fund.** Sponsored by MSU, The Parents Association, and the Student Association, this fund assists students in emergency situations. Students may borrow small amounts on a short-term, no-interest basis, depending on funds available. Apply in person to the Office of Financial Aid.

**Entitlements.** Entitlement programs include Veterans Administration Educational Assistance G. I. Bill and benefits for veterans' dependents; tuition waiver for dependents of Kentucky veterans; and Vocational Rehabilitation Assistance.

**Veterans Administration (V. A.) Educational Assistance.** For eligible veterans (G. I. Bill) and/or eligible children, wives, and widows of veterans who died or were permanently and totally disabled as the result of service in U. S. Armed Forces (V. A. benefits program). Eligibility is determined by the V. A. For information and application forms, contact the Office of Veteran Affairs or the Veterans Administration Office, 600 Federal Place, Louisville, KY 40202, phone (toll-free) 1-800-292-4562.

**Tuition Waiver for Dependents of Kentucky Veterans, Police Officers, Firefighters, or Volunteer Firefighters.** The State of Kentucky provides funds to institutions for the waiver of tuition for eligible dependents (children, spouses, widows) of totally disabled or deceased Kentucky war veterans, police officers, firefighters, or volunteer firefighters, who died or were permanently and totally disabled as a result of services in the U. S. Armed Forces, Kentucky Law Enforcement Agencies, as a fire fighter, or Volunteer Firefighter. For information, call the MSU Office of Financial Aid.

**Vocational Rehabilitation.** For eligible individuals with physical or emotional disabilities; eligibility determined by the Vocational Rehabilitation Service in the student's community. If you are already enrolled at the University, contact the Vocational Rehabilitation Office, 200-32 South, #4, Morehead, KY 40351, telephone (606) 783-1527.

**Army Reserve Officers' Training Corps Subsistence Allowance.** For eligible individuals enrolled in advanced

military science classes. Consists of a tax-free allowance of \$100 per school month. Contact the Professor of Military Science, MSU, UPO Box 1361, Morehead, KY 40351-1689, telephone (606) 783-2050.

## Academic Programs and Requirements for Graduation

### Academic Programs

Programs of Study indicates in which subjects baccalaureate or associate degree programs, areas, majors or minors are offered, and whether teacher certification is available. Pre-professional (transfer) programs are also listed. You can find specific options or emphases within certain degree programs by referring to the catalog page number of the general subject area.

The following terms will assist you as you read through this section:

**Associate degree** requires no fewer than 64 semester hours and can be completed in two years or less.

**Bachelor's or baccalaureate degree** requires no fewer than 128 semester hours and can be completed in four years or less.

**Area** (area of concentration) is a field of specialization requiring not less than 48 semester hours of credit which can be completed in place of a major-minor combination.

**Major** is a principal field of specialized study in which a student plans to obtain a degree. A major requires no fewer than 30 semester hours of designated course work and must be accompanied by a minor or second major.

**Minor** is a secondary field of study of no fewer than 21 semester hours of designated course work.

**Program of study** is the major-minor combination or area of concentration which the student elects to pursue.

**Teacher certification program** is a state-approved course of study that leads to certification as a public school teacher.

### Degree Abbreviations

AA--Associate of Arts  
 AAB--Associate of Applied Business  
 AAS--Associate of Applied Science  
 ADN--Associate Degree Nursing  
 AS--Associate of Science  
 AB--Bachelor of Arts  
 BBA--Bachelor of Business Administration  
 BM--Bachelor of Music  
 BMED--Bachelor of Music Education  
 BS--Bachelor of Science  
 BSN--Bachelor of Science in Nursing  
 BSW--Bachelor of Social Work  
 BUS--Bachelor of University Studies

## Extended Campus and Distance Education Programs

### Extended Campus Centers

Morehead State University maintains three extended campus centers in Ashland, Prestonsburg, and West Liberty, Kentucky for the purpose of providing higher education access to place-bound and time-bound students who are geographically remote from the University's campus in Morehead. In addition to these three centers, the University maintains an office in Jackson, Kentucky. The University has received permission from the Council on Postsecondary Education to offer seventy-five percent or more of the following undergraduate programs at the sites identified below.

#### Ashland Area Extended Campus Center

1401 Winchester Avenue

Ashland, KY 41101

(606)327-1777 or 800-648-5370

Bachelor of Arts (Elementary Education & Middle Grades)

Bachelor of Business Administration (Accounting and Management)

Bachelor of Science in Nursing (RN-BSN Track)

#### Big Sandy Extended Campus Center

719 University Drive

Prestonsburg, KY 41653

(606)886-2405 or 800-648-5372

Bachelor of Arts (Elementary & Middle Grades)

Bachelor of Business Administration (Accounting and Management)

Bachelor of Science in Nursing (RN-BSN Track)

#### Licking Valley Extended Campus Center

1084 Highway 7, P. O. Box 190

West Liberty, KY 41472

(606)743-1500 or 800-648-5371

Associate of University Studies

#### Jackson Office

1170 Main Street

Jackson, KY 41339

(606)666-2800 or 800-729-5225

Bachelor of Arts (Elementary Education)

### Distance Education

Morehead State University offers several distance education classes through advanced technology to students in the region. Undergraduate classes are available at compressed video sites and via Internet within the University's service region. Students earn credit toward a degree by interacting with their peers through compressed video and Internet classes. For more information on the courses available through distance education, contact the Office of Distance Education, 408 Ginger Hall, (606)783-2082.

### Regional Sites

Undergraduate classes are offered at locations throughout the University's service region. Courses are offered in Maysville, Mt. Sterling, Whitesburg, and other sites during the academic year. For a schedule of classes or more information, contact the Office of Extended Campus Programs, 215 Allie Young Hall, (606)783-2605 or 800-585-6781.

### Provisional Studies Program

Provisionally admitted students will be notified that they have been identified as Provisional Studies students and that their academic activities will be specified and monitored by the Provisional Studies Program staff. Participants will be assessed and will be provided a plan of remediation designed to increase competency in identified areas of weakness. Credits earned from developmental courses do not count toward program or general education requirements, and they do not count toward the minimum hours required for graduation. However, developmental courses do carry credit which is counted in the semester workload, and the grades earned for developmental courses are computed in the student's grade point average.

The Provisional Studies Program is designed to be a Freshman Year program. To successfully exit the Provisional Studies Program and enroll in a degree program at the University, a student must:

1. Obtain a grade of "C" or higher in all required developmental courses.
2. Pass MSU 101: Discovering University Life.
3. Successfully complete two semesters with a cumulative grade point average (G.P.A.) considered to be satisfactory progress by the University. Satisfactory progress is a cumulative G.P.A. of 1.6 if 16 or fewer semester hours have been attempted and 1.7 if 17-30 semester hours have been attempted.
4. Successfully complete a minimum of twelve (12) semester hours that satisfy the general education requirements.
5. Attend a minimum of three (3) hours of study tables per week.
6. Make frequent appointments with his or her Provisional Studies Program advisor. Students should meet with their advisor every two or three weeks.

Failure to satisfy the requirements of the Provisional Studies Program by the end of the Freshman year will result in academic dismissal.

### Requirements for Graduation

To earn an undergraduate degree, you must meet general University requirements and specific program of study requirements. Program of study requirements are explained in the academic programs section of this catalog. What follows here are the general University requirements

for bachelor's degrees, associate degrees, and second degrees.

### Check Sheets

To help you identify the requirements for graduation in your program, you must file an approved check sheet or an approved teacher education program check sheet with the Office of the Registrar no later than the end of your sophomore year (or freshman year if you are in a two-year associate degree program). *Your application for a degree will not be processed until your official checksheet has been filed appropriately.*

You should request an official checksheet through your major academic advisor. A copy of the official checksheet is sent to you and your dean.

Should you subsequently change your area/major/minor program, you must follow the same procedure to acquire a new checksheet.

### Bachelor's Degree Requirements

You will receive your bachelor's degree after you:

1. Complete a minimum of 128 semester hours of prescribed and elective college credit, 43 semester hours of which must be courses numbered 300 or above. See the academic programs section of this catalog for the specific requirements of your area of concentration or major and minor programs.
2. Earn a minimum cumulative grade point average of 2.0 on all work completed at the University and on all work completed to satisfy area of concentration or major and minor requirements.
3. Complete an area of concentration of no fewer than 48 semester hours or a major of no fewer than 30 semester hours and a minor of no fewer than 21 semester hours. (These are minimum requirements. You may also elect to satisfy two majors or a major and more than one minor.) A major, minor, or area of concentration is not required for the Bachelor of University Studies degree.
4. Complete at least 32 semester hours at Morehead State University, with the last 16 hours preceding graduation earned from MSU. Correspondence courses do not satisfy this requirement. Fifty percent of the hours required for the major or area of concentration must be credit earned at Morehead State University. Exceptions may be made with permission of the dean of the college in which the major or area of concentration is granted.
5. Bachelor of Science degree candidates must complete a minimum of 60 semester hours in science or science-related fields.
6. Complete 48 semester hours of general education courses. (See Teacher Education requirements for more specific general education course requirements.) Some degree programs require specific courses within each general education

category. Please refer to your program elsewhere in this catalog for detailed course information. Listed below are the general education course requirements.

7. Complete a one credit hour MSU 101: Discovering University Life course during the student's first semester if the student begins as a freshmen or transfers to MSU with less than 30 credit hours.

### General Education Courses

#### I. Required Core 15 hours

- Writing I (100 level) -- 3 hours  
 ENG 100--Writing I . . . . . 3
- Oral Communications (100 level) -- 3 hours  
 SPCH 108--Fundamentals of Speech  
 Communication . . . . . 3
- Math Reasoning (100 level) -- 3 hours  
 Choose one course from the following list:  
 MATH 123--Introduction to Statistics;  
 MATH 131--Mathematical Reasoning and  
 Problem Solving;  
 MATH 135--Mathematics for Technical Students;  
 MATH 141--Trigonometry;  
 MATH 152--College Algebra;  
 MATH 174--Precalculus; or  
 MATH 175--Analytic Geometry and Calculus I 3
- Computer Competence (100 level) -- 3 hours  
 Choose one course from the following list:  
 AGR 261--Information Acquisition & Analysis;  
 ART 109--Introduction to the Computer  
 in the Visual Arts;  
 CIS 101--Computers for Learning;  
 CMAP 166--Desktop Publishing and  
 Publication Techniques I;  
 EDUC 222--Computing Tools for Educators; or  
 MUSE 215--Microcomputers and Music . . . . 3
- Writing 2 + Area Studies (200 level) -- 3 hours  
 \*ENG 200--Writing II . . . . . 3

**\*ENG 200 must be paired with an Area Studies Course or approved course in discipline.**

#### II. Area Studies 30 hours

Only one course may be chosen from each prefix in Area Studies courses; for example, only one course from the three ART courses may be chosen to satisfy the nine hours of humanities for the Area Studies General Education Requirements.

- A. Humanities . . . . . 9 hours  
 Choose three (3) courses from the following list:  
 ART 263--Art History I  
 ART 264--Art History II  
 ART 265--Art History III  
 CMEM 210--Media Literacy  
 ENG 205--Language: Culture and Mind  
 ENG 220--Topics in Literature

ENG 293--Introduction to Creative Writing  
 FNA 160--Understanding the Visual Arts  
 FRN 101--Beginning French I  
 FRN 205--French Culture and Civilization  
 GOVT 210--Introduction to Political Theory  
 HIS 201--Global Studies  
 HIS 202--American Studies  
 MUSH 261--Music Listening  
 MUSH 361--History of Music I  
 MUSH 362--History of Music II  
 PHIL 200--Introduction to Philosophy  
 PHIL 203--Social Ethics  
 PHIL 306--Introduction to Logic  
 SPA 101--Spanish Language and Culture I  
 SPA 102--Spanish Language and Culture II  
 SPCH 350--Communication, Culture and Diversity  
 SPCH 383--Small Group Communication  
 SPCH 390--Conflict and Communication  
 THEA 110--Introduction to the Theatre

**B. Natural and Mathematical Sciences . . . . . 9 hours**

Choose three (3) courses from the following list:

BIOL 105--Introduction to Biological Sciences  
 BIOL 110--Biological Science for  
 Elementary Teachers  
 BIOL 150--Introduction to Plant Science  
 BIOL 155--Population, Resources and the  
 Environment  
 BIOL 171--Principles of Biology  
 BIOL 231--Human Anatomy  
 CHEM 101--Survey of Chemistry I  
 CHEM 111--Principles of Chemistry I  
 GEOS 106--Introduction to Geology  
 MATH 232--Math for the Elementary  
 Teacher II  
 MATH 353--Statistics  
 MATH 354--Business Statistics  
 PHYS 110--Concepts in Astronomy  
 PHYS 201--Elementary Physics  
 PHYS 231--Engineering Physics I  
 SCI 103--Introduction to Physical Sciences  
 SCI 104--Modern Issues and Problems in  
 the Physical Sciences  
 SCI 109--Physical Science for Elementary Teachers

**C. Social and Behavioral Sciences . . . . . 9 hours**

Choose three (3) courses from the following list:

AGR 204--World Food  
 ECON 101--Introduction to Economics  
 ECON 102--Economic History of the United States  
 ECON 201--Principles of Macroeconomics  
 ECON 202--Principles of Microeconomics  
 GEO 100--Fundamentals of Geography  
 GEO 300--World Geography  
 GOVT 141--United States Government  
 GOVT 362--Current World Problems  
 IET 300--Technology and Society  
 NAHS 300--Ethical and Legal Issues  
 in Health Care  
 PSY 154--Introduction to Psychology

SOC 101--General Sociology  
 SOC 203--Contemporary Social Problems  
 SOC 305--Cultural Anthropology  
 SOC 354--Individual and Society  
 WST 273--Introduction to Women's Studies

**D. \*Practical Living . . . . . 3 hours**

Choose one (1) course from the following list:

AGR 202--Agricultural Plants and Humanity  
 FIN 264--Personal Finance  
 GOVT 226--Law for the Layperson  
 HLTH 151--Wellness: Theory in Action  
 HS 101--Nutrition and Well Being  
 IET 120--Technology Systems  
 MNGT 160--Business and Society  
 NAHS 302--Health Maintenance  
 Throughout the Lifespan  
 NAHS 303--Women's Health Care

Clarification: \*Diverse courses may be proposed for the Practical Living category. For example, this category could include courses that promote health and well being or personal financial management.

**III. Integrative Component . . . . . 3 hours**

Students must take the course from the following list that is from their major of study.

AGR 499C--Senior Seminar in Agriculture  
 ART 499C--Visual Art Capstone  
 BIOL 499C--Contemporary Environmental Issues  
 BIOL 499D--Principles of Evolution  
 CIS 499C--Systems Development Project  
 CMAP 499C--Senior Project  
 CMEM 499C--Electronic Media Senior Seminar  
 CMJN 499C--Journalism Senior Seminar  
 CRIM 499C--Seminar in Criminal Behavior  
 EDSE 499C--Teacher in Today's Schools (2 hrs)  
 ENG 499C--Senior Seminar in English  
 FRN 499C--Senior Colloquium in French  
 GEO 499C--Senior Seminar in Geography  
 GOVT 499C--Senior Seminar  
 HIS 499C--Senior Seminar in History  
 HLTH 499C--Senior Seminar in Health Promotion  
 HLTH 499D--Senior Seminar in Health Education  
 HS 499C--Senior Seminar  
 IET 499C--Senior Project  
 MATH 499C--Mathematics Capstone  
 MNGT 499C--Business Policies and Problems  
 MSU 499C--Senior Seminar  
 MUSP 498C--Senior Recital  
 MUSP 499C--Senior Recital  
 NURB 499C--Advanced Nursing Practicum  
 PHED 499C--Senior Capstone  
 PHIL 499C--Senior Seminar in Philosophy  
 PSY 499C--Systems and Theories of Psychology  
 PLS 499C--Senior Paralegal Practice Seminar  
 SCI 498--Senior Thesis I; and  
 SCI 499C--Senior Thesis II  
 SOC 499C--Senior Seminar

SPA 499C--Senior Seminar in Spanish  
 SPCH 499C--Senior Seminar in Speech  
 SWK 497--Practicum in Social Work; and  
 SWK 498--Social Work Practice Skills III;  
 and  
 SWK 499C--Senior Seminar  
 THEA 499C--Senior Seminar Theatre

## Bachelor of University Studies Degree Requirements

You do not have to complete a major, minor, or area of concentration for the Bachelor of University Studies degree. You may take a wide variety of subjects or concentrate all studies beyond the general education requirements in a single discipline. For more information, see your advisor or the Coordinator of Freshman Advising and General Studies.

You will receive your Bachelor of University Studies degree after you:

1. Complete a minimum of 128 semester hours of prescribed and elective college credit, 43 semester hours of which must be courses numbered 300 or above.
2. Earn a minimum cumulative grade point average of 2.0 on all work completed at the University.
3. Complete at least 32 semester hours at Morehead State University, with the last 16 hours preceding graduation earned from MSU. Correspondence courses do not satisfy this requirement.
4. Complete 48 semester hours of general education courses. See the general education course requirements for Bachelor's Degree Requirements.
5. Complete a one credit hour MSU 101: Discovering University Life course during the student's first semester if the student begins as a freshman or transfers to MSU with less than 30 credit hours.

## Associate Degree Requirements

You will receive your associate degree after you:

1. Complete a minimum of 64 semester hours of prescribed and elective college credit. See the academic programs section of this catalog for the specific requirements of your associate degree program. A prescribed program is not required for the Associate of University Studies degree.
2. Earn a minimum cumulative grade point average of 2.0 on all work at the University.
3. Complete at least 16 semester hours at Morehead State University, including one semester preceding graduation. Correspondence courses do not satisfy this requirement.
4. Complete a one credit hour MSU 101: Discovering University Life course during the student's first semester if the student begins as a freshman or transfers to MSU with less than 30 credit hours.

5. Complete 21 semester hours of general education requirements as follows:

## General Education Requirements

**Writing I (100 level) . . . . . 3 hours**  
 ENG 100--Writing I

**Oral Communications (100 level) . . . . . 3 hours**  
 SPCH 108--Fundamentals of Speech Communication

**Math Reasoning (100 level) . . . . . 3 hours**  
 Choose one course from the following list:  
 MATH 123--Introduction to Statistics;  
 MATH 131--Mathematical Reasoning and Problem Solving;  
 MATH 135--Mathematics for Technical Students;  
 MATH 141--Trigonometry;  
 MATH 152--College Algebra;  
 MATH 174--Precalculus; or  
 MATH 175--Analytic Geometry and Calculus I

**Computer Competence (100 level) . . . . . 3 hours**  
 Choose one course from the following list:  
 AGR 261--Information Acquisition & Analysis;  
 ART 109--Introduction to the Computer in the Visual Arts;  
 CIS 101--Computers for Learning;  
 CMAP 166--Desktop Publishing and Publication Techniques I;  
 EDUC 222--Computing Tools for Educators; or  
 MUSE 215--Microcomputers and Music . . . . .

**Writing 2 + Area Studies . . . . . 6 hours**  
 \*ENG 200--Writing II

**Humanities or Social/Behavioral Sciences . . . 3 hours**  
 \*(whichever was not paired with Writing II)

Choose one course from the following list:

### Humanities

ART 263--Art History I  
 ART 264--Art History II  
 ART 265--Art History III  
 CMEM 210--Media Literacy  
 ENG 205--Language: Culture and Mind  
 ENG 220--Topics in Literature  
 ENG 293--Introduction to Creative Writing  
 FNA 160--Understanding the Visual Arts  
 FRN 101--Beginning French I  
 FRN 205--French Culture and Civilization  
 GOVT 210--Introduction to Political Theory  
 HIS 201--Global Studies  
 HIS 202--American Studies  
 MUSH 261--Music Listening  
 MUSH 361--History of Music I  
 MUSH 362--History of Music II  
 PHIL 200--Introduction to Philosophy  
 PHIL 203--Social Ethics  
 PHIL 306--Introduction to Logic  
 SPA 101--Spanish Language and Culture I  
 SPA 102--Spanish Language and Culture II  
 SPCH 350--Communication, Culture and Diversity

SPCH 390--Conflict and Communication

THEA 110--Introduction to the Theatre

### **Social and Behavioral Sciences**

AGR 204--World Food

ECON 101--Introduction to Economics

ECON 102--Economic History of the United States

ECON 201--Principles of Macroeconomics

ECON 202--Principles of Microeconomics

GEO 100--Fundamentals of Geography

GEO 300--World Geography

GOVT 141--United States Government

GOVT 362--Current World Problems

IET 300--Technology and Society

NAHS 300--Ethical and Legal Issues in Health Care

PSY 154--Introduction to Psychology

SOC 101--General Sociology

SOC 203--Contemporary Social Problems

SOC 305--Cultural Anthropology

SOC 354--Individual and Society

WST 273--Introduction to Women's Studies

### **Associate of University Studies Degree Requirements**

Except for the general education requirements and the one credit hour MSU 101: Discovering University Life, no prescribed program of study is required for this degree. You may take a wide variety of subjects or concentrate all studies beyond the general education requirements in a single discipline. All other associate degree requirements must be met. (See associate degree requirements above.) For more information, see your advisor or the Coordinator of Freshman Advising and General Studies.

### **Interdisciplinary Women's Studies Minor**

The purpose of the women's studies minor is to provide students with an understanding of how gender, particularly in terms of women, is constructed and employed in educational, historical, aesthetic, sociological, and political contexts. The intention is to equip students with the knowledge and analytical abilities needed to recognize and transform gender inequality in their own lives and in the world at large.

The objectives of the minor are:

1. To inform students of the diversity of women's contributions across academic disciplines in a multicultural and global society.
2. To increase students' knowledge of the varied contributions of women throughout history.
3. To challenge students to use a variety of critical thinking and problem solving skills to recognize and contend with gender inequality at the individual and social level.
4. To expand students' knowledge, skills, and consciousness regarding their choices in families, politics, work, and leisure.

### **Required Courses**

WST 273: Introduction to Women's Studies . . . . . 3

WST 499C: Integrative Capstone in Women's Studies . . . . . 3

### **Electives**

Additional courses crosslisted in Women's Studies . . . . . 15

Some courses approved to be crosslisted in the minor are:

WST 320: Women Writers and a Feminist Perspective  
crosslisted as ENG 320

WST 399: Women and Politics  
crosslisted as GOVT 355

WST 457: Parenting  
crosslisted as HS 457

WST 474: Women and Health  
crosslisted as NAHS 474

WST 354: Individual and Society  
crosslisted as SOC 354

Special topics will be approved for crosslisting on an individual basis.

### **Second Degree Requirements**

If you have earned a degree from Morehead State University or any other accredited college or university, you may earn a second bachelor's degree or associate degree by completing program requirements approved by your major department and the following minimum requirements.

#### **For a second bachelor's degree, you must:**

1. Hold an acceptable bachelor's degree from an accredited college or university.
2. Complete a program of study approved by the head of your major department, including at least 32 new semester hours earned at Morehead State University. Of these 32, a minimum of 15 semester hours must be earned to complete a new major or area of concentration.
3. Earn a minimum of 2.0 grade point average in all course work presented to complete the program, in all course work completed at Morehead State University, and in all course work in a major, minor, or area of concentration.

#### **For a second associate degree, you must:**

1. Hold an acceptable associate or higher degree from an accredited college or university.
2. Complete a program of study approved by the head of your major department, including at least 16 new semester hours (at least 12 must be earned at Morehead State University). At least 9 of the 16 semester hours earned must be in courses in a new prescribed associate degree program.
3. Earn a minimum of 2.0 grade point average in all course work presented to complete the program, in all course work completed at Morehead State University, and in all course work in the new prescribed associate program.

### **Assessment**

Morehead State University uses various tests and survey instruments to assess students' progress and to evaluate academic programs and services. The types of

assessment used by each academic program are listed in this catalog along with other program requirements.

All seniors must take an exit examination of general education skills before they will be allowed to file for graduation. This test will be administered in the Testing Center, Ginger Hall 501, at no cost to the student, on announced dates throughout the semester. All students are expected to participate in both University-wide and departmental assessment activities. For further information about assessment requirements, contact the Office of Undergraduate Programs, 201 Ginger Hall, (606) 783-2004.

### Applying for Graduation

An Application for Degree Form (available in the Office of the Registrar) should be submitted to the Office of the Registrar at least one semester before degree requirements are completed. A list of degree candidates is posted outside the Office of the Registrar at least two weeks prior to the end of each term.

**Commencement.** Commencement is observed two times during the academic year. Ceremonies are held at the end of the fall and spring terms.

## Academic Regulations and Procedures

### Registration

To register, you must be admitted to the University and have a personalized registration packet. Registration packets for new students are available at the Office of Admissions, 301 Howell McDowell Administration Building.

### Early Registration and Orientation

New freshmen or transfer students enrolling for the fall semester are encouraged to participate in the summer early registration and orientation program. The day's activity provides an overview of the educational opportunities and facilities of the University. Students will also meet with academic advisors and register for classes for the fall semester.

Orientation programs are also held during the regular fall and spring registration periods. All new freshmen and transfer students, including those that attended the summer orientation, are required to attend the fall program. Students are notified of the specific dates and times of these activities upon their acceptance to MSU by the Office of Admissions.

### Advance-registration

Students currently enrolled or who have been accepted for enrollment may advance-register for courses for the following semester or summer term. Complete instructions are published in the term's Directory of Classes.

### Late Registration

Students are encouraged to register according to the timetable in the published class schedule. Late registrants are assessed a \$50 late registration fee and often encounter scheduling difficulties. After the scheduled enrollment period, students registering for the first time must report to the Office of Admissions, 306 Howell-McDowell. Returning students begin the registration process in the Office of Registrar, 201 Ginger Hall.

### Change in Schedule

Schedule changes include adding and dropping a course, changing from one course section to another, changing the number of credits involved in any course, or changing from audit to credit or from credit to audit. Any schedule change must be approved by the student's advisor and the department chair in which the class is offered and be recorded with the registrar on a drop/add form. Deadlines for making schedule changes are published in the current class schedule.

After the published date, full term courses may be dropped only because of unusual circumstances. Approval of the dean of the college in which the student is majoring is required.

### Course Load

To be classified as full time a student must enroll for at least 12 semester hours. Audited and correspondence courses do not contribute toward a full-time load. The maximum load a full-time undergraduate student may carry during any semester is 18 credit hours including audited courses.

Enrollment in 19 to 21 credit hours is considered an overload. Undergraduate students desiring to register for an overload must:

- A. Have a 3.25 in the previous semester or overall cumulative G.P.A.
- B. Have the approval of the academic advisor and the appropriate college dean.
- C. Pay additional tuition per credit hour over 18 hours.

It is expected that no student shall be allowed to enroll in more than 21 hours in a regular semester and 7 hours in a summer session.

### Undergraduates Enrolling for Graduate Credit

A student in the final semester of undergraduate study with a grade point average (G.P.A.) of at least 2.5 may enroll concurrently in courses for graduate credit according to the following limitations:

| Undergraduate Credit<br>Needed for Degree<br>Completion | Graduate<br>Credit<br>Allowed |
|---------------------------------------------------------|-------------------------------|
| 9                                                       | 3                             |
| 6                                                       | 6                             |
| 3                                                       | 9                             |

If the work for a baccalaureate degree is being completed during a summer term, the combined course load may not exceed six hours. Application forms are available in the Office of Graduate and Extended Campus Programs, 701 Ginger Hall. Approval must be granted prior to registration.

### Student Classification

Classification is determined by the number of credit hours, including transfer work, successfully completed. The classifications are 0-29 hours, freshman; 30-59 hours, sophomore; 60-89 hours, junior; 90 hours and above, senior.

### Course Numbering

Courses numbered below 100 are developmental courses. These courses carry credit which is counted in the student's load. The grade earned is computed in the student's grade point average. However, credits earned do not count toward program or general education requirements, and they do not count toward the minimum hours required for graduation. Courses numbered as follows:

|         |                             |
|---------|-----------------------------|
| 100-199 | Freshman courses            |
| 200-299 | Sophomore courses           |
| 300-399 | Junior courses              |
| 400-499 | Senior courses              |
| 500-599 | Senior and graduate courses |
| 600-699 | Graduate courses            |

Generally, courses may be taken only one level above a student's present classification except for 500-level courses which may be taken only by seniors and graduate students. Courses may be taken at any level below a student's present classification.

A course numbered 500 will be taught at the undergraduate level, and graduate students enrolled must meet additional course requirements to receive graduate credit for the course. A statement of these requirements will be provided with the course syllabus.

### Courses

#### Repeating Courses

Undergraduate students are permitted to repeat any course regardless of the grade received a maximum of two times. Only the grade received on the last attempt is computed in the overall grade point average (G.P.A.). This practice applies to MSU and is not necessarily the way other institutions might compute the cumulative G.P.A. upon transfer.

MSU courses for which a failing grade has been received must be repeated in residence unless prior approval has been received from the MSU department head. A failing grade may not be removed by correspondence study or proficiency testing unless approved in advance by the department head and dean of the college in which the course was offered.

Students wishing to repeat courses must file a Repeat of Course Option with the Registrar's Office at the time of enrollment in the course to be repeated.

### Auditing Courses

An auditor is a student who enrolls and participates in a course without expecting to receive academic credit. The same registration procedure is followed and the same fees charged as for courses taken for credit. An audited course is not applicable to any degree. Audit enrollment *will not* be considered a part of the minimum number of hours required to determine full-time status or normal load. Audit enrollment will be counted in determining overload.

Regular class attendance is expected of an auditor. Other course requirements, which may be obtained in writing from the instructor, will vary depending on the nature of the course. Students interested in auditing a course should contact the instructor and discuss course requirements prior to enrolling. *Failure to meet audit requirements for the course may result in the auditor being withdrawn from the course at the request of the instructor with a "WY" (Audit Withdrawal) entry made on the student's transcript.* A successful audit will be recorded on the transcript with the designation "Y." Any change from audit to credit must be done by the last day to add a class. Changes from credit to audit must also be done by the last day to add a class. Deadlines for changes of registration status are published in the current class schedule. Refunds for withdrawals from audited courses will be prorated on the same basis as refunds for withdrawals from courses taken for credit.

### Attendance

Prompt and regular class attendance, being essential to the learning experience, is the responsibility of all students. More specific attendance policies may be established by individual course instructors and must be distributed to students in written form during the first week of the session. A copy of the policy will be kept on file by the department chairperson.

### Absence

Students missing class because of legitimate reasons must consult with the instructor concerning the absence, preferably beforehand. Legitimate absences do not excuse the student from class responsibilities. Some examples of reasons to be excused by the instructor are illnesses, accident, personal emergency, death in the immediate family, special academic programs, or an authorized University function for which the student's presence is required.

Students who feel that they have been unjustly penalized by an instructor's attendance policy or by the instructor refusing to accept an excuse may follow the academic grievance procedures outlined in the student handbook.

If the instructor has determined that class participation is necessary for the student to meet course objectives, all students will abide by the attendance policy applicable to that course.

## Final Examinations

Any student with more than two final examinations scheduled on any one date is entitled to have the examination for the class with the lowest catalog number rescheduled at another time during the final examination period. If a suitable arrangement cannot be made between the student and the instructor then the next highest number may be rescheduled. In case the lowest number is shared by more than one course, the one whose department prefix is first alphabetically will be rescheduled. The option to reschedule must be exercised in writing to the appropriate instructor two weeks prior to the last class meeting.

## Withdrawals

To withdraw from the University, a student must complete a withdrawal form at the Office of the Registrar. It is important for a student's academic record to reflect an official withdrawal; entitled refunds are not made unless the withdrawal is properly recorded.

## Grades

### Marking System and Scholastic Points

The evaluation of the academic work of undergraduate students is indicated by letters as follows:

A--Excellent--Valued at four quality points per semester hour.

B--Good--Valued at three quality points per semester hour.

C--Average--Valued at two quality points per semester hour.

D--Below average--Valued at one quality point per semester hour.

E--Failure--No semester hours earned and no quality points.

I--Incomplete--Given only when a relatively small amount of work is not complete because of illness or other reasons satisfactory to the instructor. Incompletes must be made up by mid-term of the following semester (summer school excluded). I is calculated as an E in computation of G.P.A. for the current term.

IP--In progress--Course work has not been completed, and the student must register for same course the following semester; no credit hours or quality points (restricted to approved courses).

K--Credit, pass-fail course--Semester hours earned; no quality points; not computed in G.P.A.

N--Failure, pass-fail courses--no quality points; computed in G.P.A.

P--Withdrew from school passing--Not computed in G.P.A.

F--Withdrew from school failing--Computed in G.P.A. as credits attempted.

R--Course repeated--Replaces original grade for repeated course; computed in G.P.A.

U--Unofficial withdrawal--Computed as credits attempted; computed as zero quality points in G.P.A. calculation.

W--Withdrew officially--No hours attempted; not computed in G.P.A.

WY--Withdrawal from audit class--Not computed in G.P.A.

Y--Audit credit--No hours attempted; not computed in G.P.A.; not applicable to degree program.

## Pass-Fail

The purpose of the pass-fail option is to let you explore elective courses outside your area of specialization without engaging in grade competition with students specializing in those courses. Apply at the office of the dean of your first major by the last day to add a class.

Requirements include the following:

1. A minimum of 2.5 cumulative G.P.A. for 30 hours earned at MSU. You are eligible as a transfer student with a minimum of 30 hours, if at least 12 hours were earned at MSU, and you have a 2.5 G.P.A. on the work completed at MSU.
2. A maximum of 15 hours may be applied toward the total number of hours required for the bachelor's degree; six hours may be applied toward associate degree requirements.
3. The pass-fail option is applicable only to free elective courses. These include courses not required for your area, major, minor, or general education requirements.
4. Each semester you may use the pass-fail option for one course (for any number of hours of credit), or a combination of courses totalling up to three hours.
5. Hours earned in pass-fail work are added to your total hours passed but do not affect your G.P.A. Any grade of D or above is considered passing and is designated by K. A failing grade is designated by N.
6. You may change course registration status from pass-fail to the conventional letter grading system, and vice versa, during the normal period to add a course.
7. You cannot transfer hours earned under the pass-fail option into any degree program.
8. Your status under the pass-fail option is not identified to instructors. Instructors assign a conventional letter grade and the registrar converts the assigned letter grade to a K or N, as applicable.

## Honors

**Academic Dean's List.** To be eligible, you must have passed at least 12 undergraduate hours and have earned at least a 3.5 G.P.A. for the current semester.

**Graduating with Honors.** Formal recognition is given to two-year and four-year graduates who have achieved academic excellence. Baccalaureate degree recipients who complete at least 64 hours at MSU and earn a cumulative grade-point average of 3.50 to 3.69 graduate *Cum Laude*; 3.70 to 3.89 graduate *Magna Cum Laude*; and 3.9 to 4.00 graduate *Summa Cum Laude*. Associate degree recipients who complete a minimum of 32 semester hours at MSU and earn a cumulative grade-point average of 3.60 or better graduate with distinction. Only work completed at MSU is used in computing grade-point average.

## Grade Reports

At the end of each semester and summer term, a final grade report is sent to you at your permanent address. Mid-term grade reports are not mailed, but should be picked up from your advisor. There are no mid-term grade reports for summer terms.

## Transcripts

Request official transcripts in writing to the registrar. Requests received by noon are ready for pickup or mailing by noon of the next working day. Official transcripts are \$2 each.

## Student Records

In accordance with the Family Education and Privacy Act and Morehead State University policy, non-directory information from your official cumulative file may not be released without your written consent except to persons engaged in the proper performance of University duties.

You also have the right to inspect, review, and challenge all official educational records, files, and data directly related to you. Request for access to such records must be in writing to the Registrar, MSU, 201 Ginger Hall.

Questions concerning this law and the University policy may be directed to the Office of Registrar, 201 Ginger Hall.

## Scholastic Standing

Students are eligible to register if they meet the following minimum cumulative scholastic levels:

- I. A 1.6 cumulative grade-point average if 16 or fewer semester hours have been attempted.
- II. A 1.7 cumulative grade-point average if 17-30 semester hours have been attempted.
- III. A 1.8 cumulative grade-point average if 31-45 semester hours have been attempted.
- IV. A 1.9 cumulative grade-point average if 46-60 semester hours have been attempted.
- V. A 2.0 cumulative grade-point average if 61 or more semester hours have been attempted.

**Probation.** Students failing to meet the scholastic standards listed above are placed on academic probation. At the end of each academic term, the Registrar provides a grade report that reflects grades for the term and the Morehead State University cumulative grade point average. Students enrolled on academic probation are subject to academic dismissal if they fail to attain the minimum standards listed above. A student on academic probation is allowed continued enrollment on a semester-by-semester probationary status as long as a 2.0 grade point average is maintained each term.

**Dismissal.** A student will be dismissed from the University following a probationary semester in which the student either fails to meet the cumulative grade point average or fails to earn a 2.0 G.P.A. for the term. The dismissal period for the first dismissal following a fall semester is the *spring semester*; following a spring semester the dismissal period is *both summer terms and the fall semester*. The dismissal period for a second dismissal is *twelve (12) months* and for a third dismissal *twenty-four (24) months*. During a dismissal period, a student will be ineligible to enroll for any credits at Morehead State University.

A student dismissed under this policy may appeal the dismissal to the Academic Standards and Appeals Committee if the student believes the dismissal was the result of circumstances beyond his or her control. If an appeal of the suspension is granted, the student must meet all additional requirements set forth by the Academic Standards and Appeals Committee.

## Academic Bankruptcy

Academic bankruptcy allows undergraduates with an unacceptable grade-point average (G.P.A.) to drop one semester's work from consideration for MSU general education degree or program requirements.

Undergraduate students who are granted bankruptcy status forfeit credit for all courses in the bankrupt semester. The grades and credit hours earned during that semester are disregarded for MSU requirements, but the notation "academic bankruptcy" appears on the transcript beneath the semester's work.

Undergraduate students declared eligible for bankruptcy forfeit credit for only one specified semester of pre-baccalaureate study. Bankruptcy cannot be revoked once it has been granted.

**Eligibility.** Only hours attempted at Morehead State University are considered for bankruptcy; transfer hours are excluded.

These are the requirements for academic bankruptcy:

1. Students must apply for bankruptcy before completing a baccalaureate degree at MSU.
2. They must have attempted at least 48 semester hours at MSU.

3. For the term in question, students must have a G.P.A. of at least 1.0 under their cumulative average for all other hours attempted at MSU.

**Procedure.** To apply for academic bankruptcy, request an Academic Bankruptcy Form in the Office of the Registrar. Complete the form, have it signed by your academic advisor and/or department head, and take it to the registrar for verification of eligibility. The registrar will notify you, your advisor, and/or head of your department in writing whether or not you are eligible.

If you are ruled ineligible and want to appeal, request reconsideration at the Office of the Vice President for Academic Affairs, 205 Howell-McDowell.

### Academic Grievance Procedure

It is recommended the student discuss any complaint with the person involved. If the complaint is not resolved at the instructor level, or if the student feels it is not practical to contact the instructor, the student may present the complaint to the chair of the department to which the instructor is assigned. If the complaint involves a final grade, the student must take the complaint to the faculty member within the first two weeks of the beginning of the following semester. If the student is not enrolled the subsequent semester, a letter of inquiry should be mailed to the instructor and the instructor's department chair within the first two weeks of the beginning of the following semester. Upon receipt of the response from the instructor, the student has 30 days to file a formal complaint.

Prior to any action by the department chair, the student will be required to complete a Student Grievance Form. The form is available in the Office of the Executive Vice President for Academic Affairs and should be completed and returned to the chair of the department involved. Upon receipt of the Student Grievance Form, the department chair will request from the instructor a response in writing, addressing the questions raised by the student. Within one week after the written grievance is filed in the department chair's office, a meeting will be arranged. The instructor, the student filing the grievance, the department chair, and the dean of the responsible college will be in attendance. The student may have his or her academic advisor or a faculty member of the student's choice present. It will be the purpose of the department chair and the respective college dean to review the grievance and attempt to mediate a settlement. The department chair's and the college dean's recommended solution is to be considered by both the faculty member and the student as a recommendation and not as a decision that is binding. Records of this meeting, including recommendations by the department chair and college dean, will be sent to the Executive Vice President for Academic Affairs and to all parties concerned.

If the recommendations presented by the department chair and the college dean are not acceptable to the student, he or she may appeal to the Academic Standards and Appeals Committee. The student must

petition a hearing before this committee within one week following the meeting with the college dean and the department chair. Requests are to be in writing and made to the Executive Vice President for Academic Affairs. If the procedure has been followed, the Executive Vice President will submit to the chair of the committee records of all action to date. Within two weeks following the application of appeal, the committee will meet and review data and previous recommendations. The committee may request additional information and/or the parties involved to appear before the committee. The committee's decision will be sent to the Executive Vice President for Academic Affairs, with a copy being sent as a matter of record to the student, faculty member, department chair, and the faculty member's college dean. The Executive Vice President for Academic Affairs is responsible for enforcing the committee's decision. The committee's decision is final.

It is understood that anyone may appeal to the President of the University when due process has been violated or when individual rights are disregarded.

### Sexual Harassment Policy

**PURPOSE:** To establish the University's policy on sexual harassment and the procedures for acting on claims of sexual harassment.

**APPLICATION:** This policy applies to all employees and students of the University including volunteers, guests and subcontractors of the University.

Nothing contained in this policy shall be construed to supplant or modify existing laws of the Commonwealth of Kentucky and the United States. This policy shall not be used to remedy acts which are crimes under the laws of the Commonwealth of Kentucky or the United States.

**DEFINITION:** Sexual harassment (which includes harassment based upon gender) violates the standards of civility of societal conduct, subverts the mission of the University, and violates both state and federal laws and regulations. In its most serious forms, it may threaten the careers of students, staff and faculty and will not be tolerated at Morehead State University. For the purposes of this policy, sexual harassment is defined as follows:

Unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature constitutes sexual harassment when: (1) submission to such conduct is made either explicitly or implicitly a term or condition of an individual's employment or academic advancement; (2) submission to or rejection of such conduct by an individual is used as the basis for employment decisions or academic decisions affecting such individual; (3) such conduct has the purpose or effect of unreasonably interfering with an individual's work or academic performance or creating an intimidating, hostile, or offensive working or academic environment.

Because the mere allegation of sexual harassment may be devastating to the careers and reputations of all parties, justice requires that nomenclature be uniform, that a clear policy concerning consensual relationships be established and that a fair, and well-understood procedure be adopted to carry out university policy.

Although sexual harassment may occur between persons of the same University status, i.e. student-student, faculty-faculty, the most invidious form of sexual harassment is that which occurs when power inherent in a faculty member, administrator, or supervisor's relationship to students, advisees, or subordinates is unfairly exploited: that is, where sexual harassment takes place in part because of a power differential which occurs between faculty and student or supervisor and subordinate. (Throughout this policy, the term "faculty" or "supervisor" should be read to include any position of influence and/or authority.)

Because of the volatile nature of a claim of sexual harassment, the procedures set forth below use the term "complainant" for the person making the claim of sexual harassment and "respondent" for the person against whom such claim is made. These terms should be used throughout both the informal and formal procedures for resolving such claims to ensure the dignity of all parties.

**CONSENTING RELATIONSHIPS:** Consenting romantic and sexual relationships between faculty/staff and student or between supervisor and employee are a fact of the adult University community. Nevertheless, while such relationships are not forbidden, they may be deemed unwise--especially in situations in which there is a power differential between the superior and subordinate, as in a faculty member's power to confer grades, praise, etc. Therefore, all individuals are specifically warned against the possible costs of even an apparently consenting relationship. A faculty/staff member who enters into a sexual relationship with a student or a supervisor with a subordinate, where a professional power differential exists, must realize that, if a charge of sexual harassment is made, it will be exceedingly difficult to prove immunity on grounds of mutual consent. In other words, the University body charged with investigating or adjudicating claims of sexual harassment may be expected to be somewhat unsympathetic to a defense based upon consent where the facts establish that a faculty/staff-student or supervisor-subordinate power differential exists.

Sanctions for violation of Morehead State University's sexual harassment policy may include termination of employment with the University, or, in the case of students, dismissal. Retaliation against any complainant is prohibited and the sanctions for such retaliation may be as severe as the sanctions for perpetration of the sexual harassment itself.

#### **PROCEDURES FOR RESOLVING SEXUAL HARASS-**

**MENT COMPLAINTS:** The policies and procedures set forth herein constitute the exclusive remedy for sexual harassment at Morehead State University. Although the policy against sexual harassment is uniform throughout the University, the procedures for resolving a complaint vary by the nature of the relationship between the complainant and the respondent and by whether the complainant chooses to try first to resolve matters through the informal procedures outlined below.

Although the President of the University, as the chief executive officer, is ultimately responsible for enforcement of University policy, two individuals (and their designees) share the responsibility as the primary persons for coordinating enforcement of the sexual harassment policy promulgated herein. [Each official will also have as an alternate designee, a person of the opposite gender. This will allow all complainants a choice of the gender to whom one wishes to bring a complaint.]

Depending upon the relationship of the complainant and respondent, the officials responsible for enforcement of the sexual harassment policy are as follows:

- Where both parties are students - the Vice-President for Student Life or designee.
- Where the complainant is a student (and the complaint does not involve the individual's status as an employee or workshop) and the respondent is any other University employee, or where the complainant is an employee (regardless of whether that employee is also a student), and the respondent is any other person - the Affirmative Action Officer or designee. The Chair of the Affirmative Action Committee may be asked to assist with investigating the complaint if deemed advisable.

Should the complainant or respondent be one of the officials named above, the matter would be referred to the President for designation of an appropriate official to coordinate enforcement of this sexual harassment policy.

As often as is practicable, the names of the officials and their alternate gender designees shall be published in the EAGLE GUIDE, TRAIL BLAZER, UPDATE, HANDBOOK FOR ADMINISTRATIVE, PROFESSIONAL, AND SUPPORT STAFF and other appropriate University publications.

Because of the changing nature of men and women in the workplace and the years of reinforcement of societal norms which resulted in workplace domination of women by men, it is quite probable that some sexual harassment is unintentional or derives from ignorance, lack of education or general insensitivity. While the effect on the complainant is the same whether the sexual harassment is intentional or not, part of the purpose of a sexual harassment policy is to heighten awareness of the problem and seek education and sensitivity training for those who may engage in it unintentionally. Also, there

are circumstances in which misunderstandings develop and the necessity for formal action is obviated once all of the facts become known. Therefore, all potential complainants are invited to use the following informal procedure to resolve sexual harassment complaints. However, it is not the intent of Morehead State University to require any complainant to use informal means to remedy sexual harassment. Where a complainant feels that the informal process is futile, uncomfortable, or unnecessary, he or she may resort directly to the formal process set forth below.

**INFORMAL COMPLAINT PROCEDURE:** To begin the informal procedure, the complainant should simply notify, orally or in writing, the Vice President for Student Life or the Affirmative Action Officer. The selected official should invite the complainant to meet (with the official or designee) at the earliest possible time and the official should be sensitive to the fact that the meeting may need to take place after normal working hours so as to prevent disclosure to a supervisor or others. The official should listen fully to the complaint and offer his or her services in resolving the complaint informally. The University will ensure that the officials designated to receive complaints will have had training in sexual harassment counseling and arbitration. The official (or designee) should offer several possible options described below. In any case, the option(s) chosen should be with the complete approval of the complainant. Additionally, the complainant may drop the complaint at any time. Among the informal options available are:

1. The official should offer to talk directly with the respondent (out of the presence of the complainant).
2. The official should offer to talk with the respondent's supervisor up to and including the appropriate vice-president.
3. The official should offer the complainant the option of writing a letter to the respondent. The letter should be hand delivered or sent to the respondent at the respondent's place of business by certified, return-receipt mail. The letter should give a factual account of what happened, a description of how the complainant feels about what happened and what corrective action should be taken. This informal technique may result in the official taking the action specified in options 1 and 2, above.

Unless the complainant exercises the "letter option," it shall be expected that the resolution of the problem on an informal basis shall be completed within ten working days of notification. If the letter option is used, the informal process should be completed within 20 working days. These times are only guidelines since the complainant may abandon the informal process at any time.

**FORMAL COMPLAINT PROCEDURE:** Should the complaint not be resolved on an informal basis, or should the complainant choose directly the remedy of a

Formal Sexual Harassment Complaint, the complainant must file a written statement with the appropriate official designated above. The statement will be called a "Formal Sexual Harassment Complaint." The Complaint must be in writing and must contain, at the minimum, the following facts:

1. The name, address and telephone number of the complainant.
2. The full name, address and telephone number of the respondent, if known.
3. The date upon which the sexual harassment occurred, or if continuing, the date upon which the harassment started.
4. The exact nature of the sexual harassment described in plain English. (It is not sufficient simply to state that one was verbally or physically harassed nor is it acceptable to simply repeat the prohibitions against sexual harassment stated in the official University policy.) The complainant may use as many paragraphs as he or she wishes to explain in as much detail as possible the nature of the harassment.
5. The steps, if any, which were taken to stop the harassment or resolve the problem. (It is not necessary that any steps have been taken. The University recognizes that some victims of sexual harassment may feel they have no viable options to stop the harassment.)
6. The names of any persons whom the complainant believes may have knowledge which would be helpful to the resolution or understanding of the nature of the complaint.
7. The names or titles of any persons who should not be contacted regarding the complaint without the express permission of the complainant.
8. The nature of any immediate action which must be taken to protect the complainant from retaliation or further sexual harassment.
9. What ultimate action the complainant requests of the University, e.g., transfer of the complainant, dismissal or transfer of the respondent, et cetera.
10. The complaint must be signed by the complainant.

Each official is required to assist any prospective complainant in the completion of the complaint. It is the responsibility of the complainant to ensure that the complaint reaches the appropriate official, preferably by hand delivery by the complainant so as to assure receipt by the Vice-President for Student Life or the Affirmative Action Officer (or their designees). The receiving official must then determine if emergency action must be taken to protect the complainant or respondent. After such actions are taken, the official should begin to investigate the complaint. Throughout the investigation process, to the extent possible, confidentiality will be maintained as to the identities of the parties. However, it must be recognized by the complainant that anonymity cannot be maintained from the respondent.

After the receiving official takes any necessary remedial action, a copy of the complaint will be hand-delivered to the respondent by the official. A copy of the complaint will also be forwarded to the President. Within ten working days of receipt of the complaint, the respondent may serve an answer in written form to the official. A copy will be given to the complainant and the President. After receipt of the response by the official, the official will have 15 working days to investigate the claim pursuant to the instructions contained in the Sexual Harassment Investigation Handbook. At the end of that time, the official will render such findings and report as the facts warrant. A copy of the report will be provided to the parties and the President. If the official believes the claim to be frivolous, he or she shall so state, and, if the President concurs, the claim will be dismissed as a final action by the President pursuant to state and federal law.

If not dismissed as frivolous, the claim may end at this point with the implementation of the sanctions or other relief recommended to the President. If either party disagrees, a hearing may be requested--said hearing to be conducted by an ad hoc committee entitled "Sexual Harassment Grievance Committee." The Committee shall consist of six members, five voting members and a Chair who will vote only in case of a tie. The Committee shall consist of three men and three women selected by the President from slates of four each submitted by the Faculty Senate, Staff Congress and Student Government Association. Other than the gender requirement, the President may select any number from any of the slates, provided there is at least one member of the Committee from complainant's representative group and one member from respondent's representative group, i.e., if complainant is a student, there must be at least one student member on the Committee.

Unless the parties otherwise agree, the hearing before the Committee will take place within 30 days of the formation of the Committee. The proceedings will be tape-recorded. A quorum of four members is required. The only witnesses who may be heard are the parties, who will be sworn by a notary public. Any additional evidence either side wishes to submit may be submitted in writing provided that sufficient reasons exist as to why such documents were not given to the investigating official and provided that such documents are submitted to the opposite party and the Committee within five working days prior to the hearing.

The Committee shall have five working days, exclusive of the day of hearing, within which to render its report. A copy will be sent to the President, the complainant and the respondent. The report will be recommendatory to the President. The President shall then render a decision within ten (10) working days after receiving the report and recommendations from the Sexual Harassment Grievance Committee. If the decision substantiates the claim made by the complainant, the decision (not the investigative report) will be forwarded to the Director of Human Resources and

appropriate supervisors. The investigative report will be kept in the Affirmative Action Officer's files.

## Academic Support Services

### Academic Advisement Program

The University provides a program of academic advisement to assist students with information about specific programs and University procedures, with career guidance and counseling, and with general academic support throughout their college experience.

### Advisor Assignment

Although you may not have a permanent advisor assigned when you register, department chairs and academic advisors are available to assist you. A permanent advisor is assigned to you during the first two weeks of the semester you enroll. If you have selected a program of study, you must see the chair of that department for the name and office location of your advisor. If you are a General Studies (undeclared) or Provisional Studies student, you must go to the Center for Academic Advising, 233 Allie Young Hall. It is your responsibility to make the initial contact with your advisor.

### Required Advisor Contacts

You will want to maintain a close relationship by frequent visits with your advisor, but you are required to meet your advisor periodically for at least the following purposes:

1. to obtain your advisor's signature on your trial schedule form prior to registration;
  2. to pick up mid-term grade reports;
  3. to initiate class changes during the drop/add period;
  4. to complete a change of program form if you change your major, minor, or area of concentration; or if you are in general studies and you declare a major, minor, or area of concentration; and
  5. to complete a check sheet during your sophomore year (freshman year for associate degree).
- Transfer students above the sophomore level should schedule such a conference at the end of the first semester at MSU.

### Academic Services

The Academic Services Center, located on the 2nd and 3rd floors of Allie Young Hall, provides a variety of academic advising, guidance, tutoring, and support services. These academic services are free and include:

**The Center for Academic Advising.** This office provides academic advising to those students who are undecided about a college major, seeking a two-year or four-year University Studies degree, or not currently

seeking a degree. The professional advisors encourage and assist students in exploring various academic, career, and life choices as they relate to deciding upon an academic program. The staff helps students become familiar with the various resources available at MSU. For more information or assistance, call (606) 783-2084.

**Provisional Studies.** This is a Freshman year program which specifically addresses the needs of those students who do not meet the regular admission requirements of the University. Please refer to the Academic Programs and Requirements for Graduation section of this catalog for specific program requirements. For more information or assistance, call (606) 783-2084.

**Tutoring Services/Learning Lab.** Free tutoring is available during the day and evening to help students who may be having difficulty with a particular class. Supplemental instruction is available in certain classes. There are numerous self-paced programs designed to assist students in improving basic academic skills. Professional staff are available to assist students with study skills, time management, and specific academic problems. For more information or assistance, call (606) 783-5200.

**Services for Students with Physical or Learning Disabilities.** Professional staff assists students with physical or learning disabilities in the acquisition of academic aids such as taped textbooks, note-takers, and tutoring. The staff coordinates efforts to address the accessibility needs and class accommodations with instructors of students with physical or learning disabilities. For more information or assistance, call (606) 783-2005.

**Study Skills Classes.** A one credit hour course in study skills helps students to acquire skills in time management, note taking, test taking, outlining, improving memory, and listening skills. In addition to the credit class, specialized non-credit seminars in study skills are offered to students. For more information about the class and seminars or for assistance with study skills, call (606) 783-2005.

**Career Planning Classes.** The two credit hour course in career planning is designed to assist students in making realistic career and academic program decisions consistent with their abilities, needs, values, interests and goals. The students participate in many activities to learn about themselves and the world of work. Students can utilize the computerized career information program, DISCOVER, to learn more about themselves and careers. For more information about the class or DISCOVER, call (606) 783-2005.

**Readmitted/Academic Probation Student Programs.** Special academic counseling, advising, and support services are available to students who have been readmitted to MSU or are on academic probation. Specially designed study skills seminars, individualized academic counseling programs, and study tables are provided to help students successfully accomplish their academic goals.

**Center for Academic Success.** The Center for Academic Success is a guidance and academic counseling

program designed to assist with student retention by providing a variety of services to all students. Individualized academic counseling and guidance sessions are available upon request as well as workshops and seminars centered around improving study habits and increasing motivation for academic success. For information or assistance, call (606) 783-2005.

**Student Support Services.** This program serves students who are first generation college students, meet low income guidelines, or have a physical or learning disability. An individualized educational plan which may include tutoring, advising, counseling, and cultural enrichment is designed to meet the unique needs of each student. For information about the program, call (606) 783-2614.

**Writing Center.** The Writing Center, located in the Combs Building, Room 106, is staffed by trained readers from various academic backgrounds who can talk with students and faculty about writing assignments, discipline-specific writing conventions, topic development, drafts, revision, or usage questions. With its state-of-the-art networked computer classroom, the Center also offers students a quiet, focused environment in which to write. The Writing Center offers MSU students a supportive resource center staffed by people who can talk with them about any and all of the writing they're attempting across the curriculum.

## **Retention - Office of Enrollment Management**

**Peer Advising.** The Peer Advising Program offers incoming students enrolled in MSU 101: Discovering University Life the opportunity to work with upper division students who have successfully adjusted to MSU. These upper division students can provide information about University resources and help new students adjust to MSU.

**Minority Retention/GUSTO.** Academically related activities designed to assist minority students in their transition and adjustment to University life as well as help ensure academic success are provided. Included in the varied services are academic advising, guidance and counseling, tutoring, and workshops. Also provided is GUSTO (Guiding Undergraduate Students Toward Opportunities) which is a volunteer faculty mentoring program for new minority freshmen and transfer students. A faculty sponsor is assigned to guide students in the program through their first year of University life both academically and socially.

**Minority Teacher Education Program.** The purpose of the Minority Teacher Education Program (MTEP) is to identify, recruit, admit, and graduate minority students in teacher education programs. The ultimate goal is for students to be employed in Kentucky school districts upon graduation.

## **Non-Traditional and Commuter Student Counseling.**

The coordinator for non-traditional and commuter students is available to see all undergraduate non-traditional students who are 23 years of age or older and all commuter

students. This office provides assistance with academic and personal pressures frequently encountered by students dealing with courses, work, and family responsibilities.

The non-traditional coordinator serves as an advocate for the increasing number of adult students at MSU. The coordinator also helps link these students to academic and campus resources for concerns such as study habits, time management, family, career, or financial needs.

## Computer Resources

Morehead State University through the Office of Information Technology provides a variety of computing resources in support of instructional, administrative, alumni and research activities. For instructional purposes, the University provides access through three (3) Hewlett-Packard minicomputers and 2000+ microcomputers on 35 local area networks. Full access to national and international networks is provided via the Internet and the World Wide Web. The University supports administrative functions with a Hewlett-Packard G50 while the University Bookstore and the Camden-Carroll Library are supported by two (2) IBM RS6000 systems.

There are numerous devices strategically located throughout the campus to give students, faculty, and staff convenient access to these computing resources. Information Technology staff provide seminars to train users in the effective use of various hardware and software. The University instructional programs utilize computing resources for programming, problem solving, computer-assisted instruction, simulations, record keeping, word processing, electronic mail, and many other activities.

## Student Trip Insurance

Student trip insurance is available for students accompanying faculty and staff on University-sponsored field trips, including overseas travel. The cost is minimal and all applicable students are strongly encouraged to obtain this coverage prior to the date of departure.

Trip insurance is available from the Office of Support Services. Application forms may be obtained by mail or by fax by calling (606)783-2018. The completed application forms must be returned to the Office of Support Services a minimum of 72 hours prior to the date coverage is to become effective.

## Testing Center

The Testing Center provides testing services to the University and the region. Testing is conducted on a daily basis by appointment. Established testing programs include ACT, CPP, Senior Exit Tests, AP, CLEP, GED, GRE, GMAT, LSAT, Miller Analogies, The Praxis Series, TOEFL, correspondence exams, and various departmental proficiency examinations. Literature and brochures describing the different testing programs and their functions are available at the Testing Center, 501A Ginger Hall, (606)783-2526.

## Credit-by-Examination

Morehead State University awards academic credit toward a bachelor's degree or an associate degree for those scoring satisfactorily on any of the following examinations:

1. The Advancement Placement Program (APP)
2. The College Level Examination Program (CLEP)
3. Departmental Examinations
4. NLN Exams and ACT PEP Exams for Nursing.

Credit-by-examination is not recorded on a permanent transcript in the Office of the Registrar until the student qualifying for credit enrolls at Morehead State University. Credit-by-examination is recorded as K credit; hence it has no effect upon the grade point average.

## College-Level Examination Program (CLEP)

Students of all ages interested in obtaining a college education have reduced expenditures in time and money by successfully completing the college-level examinations. Many American colleges encourage students to take CLEP tests for credit in subjects they have mastered.

Students may register for general and subject examinations at MSU by contacting the Testing Center, 501A Ginger Hall, (606) 783-2526. For score requirements to earn credit hours through CLEP examinations, please contact the Testing Center at the address and phone number above.

## General Examinations

| General Examinations     | Equivalent MSU Course |
|--------------------------|-----------------------|
| Natural Sciences         |                       |
| Biological Sciences      | BIOL 105              |
| Physical Sciences        | SCI 103               |
| Mathematics              |                       |
| Math Skills              | MATH 131              |
| Humanities               |                       |
| Fine Arts                | FNA 160               |
| Social Science & History |                       |
| Social Sciences          | SOC 101               |
| History                  | HIS 120 or HIS 220    |

## Subject Examinations

|                                          |                  |
|------------------------------------------|------------------|
| American Government                      | GOVT 141         |
| American History I                       | HIS 220          |
| American History II                      | HIS 120          |
| Analysis & Interpretation of Literature  | ENG 202          |
| General Biology                          | BIOL 105         |
| Calculus with Elementary Functions       | MATH 175         |
| College Algebra                          | MATH 152         |
| College French, Level I & II             | FRN 101, FRN 102 |
| College German, Level I & II             | GER 101, GER 102 |
| College Spanish, Level I & II            | SPA 101, SPA 102 |
| Introductory Educational Psychology      | EDF 311          |
| Freshman College Composition & Portfolio | ENG 100          |
| General Chemistry                        | CHEM 101         |
| Introductory Psychology                  | PSY 154          |
| Human Growth & Development               | EDF 211          |
| Principles of Business Management        | MNGT 160         |
| Principles of Accounting                 | ACCT 281         |
| Introductory Business Law                | MNGT 261         |
| Principles Marketing                     | MKT 304          |
| Principles of Macroeconomics             | ECON 201         |
| Principles of Microeconomics             | ECON 202         |
| Introductory Sociology                   | SOC 101          |

|                         |          |
|-------------------------|----------|
| Trigonometry            | MATH 141 |
| Western Civilization I  | HIS 210  |
| Western Civilization II | HIS 110  |

### Advanced Placement Program

Students may earn college credit through the Advanced Placement Program of the College Entrance Examination Board upon completion of courses and special examinations taken in high school. The APP score should be sent to the Coordinator of Testing, Morehead State University, 501A Ginger Hall, (606) 783-2526, at the time application for admission is submitted or as soon as possible thereafter. Upon enrollment at MSU, the student should notify the Testing Center so that proper credit will be posted to the transcript. For more information and requirements, please contact the Testing Center Coordinator.

| Examination                        | Equivalent MSU Course  |
|------------------------------------|------------------------|
| U. S. History                      | HIS 220                |
| Art History                        | FNA 160                |
| Biology                            | BIOL 105               |
| Chemistry                          | CHEM 101               |
| Computer Science                   | CIS 101                |
| Economics/Macroeconomics           | ECON 201               |
| Economics/Microeconomics           | ECON 202               |
| English Language & Composition     | ENG 100                |
| English Literature & Composition   | ENG 202                |
| European History                   | HIS 201                |
| French Language                    | FRN 101                |
| French Literature                  | FRN 102                |
| German Language                    | GER 101                |
| Government & Policies: Comparative | GOVT 230               |
| Government & Policies: U. S.       | GOVT 141               |
| Latin                              | LAT 101                |
| Math Calculus AB                   | MATH 175               |
| Math Calculus BC                   | MATH 275               |
| Music: History & Literature        | MUSH 162               |
| Music: Theory                      | MUST 101               |
| Physics B                          | PHYS 201 and PHYS 201A |
| Physics C                          | PHYS 202 and PHYS 202A |
| Psychology                         | PSY 154                |
| Spanish Language                   | SPA 101                |
| Spanish Literature                 | SPA 102                |

### Departmental Examinations

Students enrolled at Morehead State University may also receive credit on the basis of departmental examinations. A department may choose to develop an appropriate exam or adopt a standardized examination from outside the University.

Those wishing to take a departmental examination must contact the appropriate academic department chair for approval. Then, the student arranges to take the test and pays the fee in the Testing Center, 501A Ginger Hall before taking the examination.

### Exception from ENG 100 (Writing I) given through CLEP and Advanced Placement Program

In order for a student to receive an exception from the Writing I course (with CLEP), students must demonstrate their ability to produce a collection of writing that matches that required in Writing I and must attain a

score of 55 on the CLEP "Freshman College Composition Subject exam." The student should:

- \* obtain a description of the CLEP test from the University Testing Center.
- \* submit a portfolio of writing to the English Department that includes - 1) example of an extended research paper using the APA, MLA, or Chicago style documentation; 2) a paper that demonstrates the writer's ability to present a reasoned argument; and 3) a cover letter explaining to the reviewers why the work being submitted meets the criteria for ENG 100: Writing I.
- \* wait for the General Education Writing Committee to review the portfolio.
- \* if the portfolio passes, then (and only then) the student should take the CLEP examination.
- \* if after having passed the portfolio requirement, the student attains a score of 55 or better on the CLEP exam, the student will be granted credit for ENG 100.

Students who have received a standard score of 4 or better on the English Language and Composition examination (which includes both the high school AP course and the nationally-normed essay) will receive credit for ENG 100--Writing I.

Because of the requirement that Writing II be paired with a general education area studies course, no exemption will be granted regardless of score on CLEP or AP examinations.

### Computer Competency

Computer competency may be demonstrated through a departmental examination. With satisfactory scores, three (3) hours credit may be awarded for CIS 101. Contact the Testing Center, 501A Ginger Hall, (606) 783-2526 for information about the exam.

### Exams for Nursing Courses

Students in the BSN-RN Tract component may earn up to thirty-four hours of credit for a number of nursing courses by satisfactorily completing the National League for Nursing (NLN) nursing mobility Profile, Books one, Two, and Three. For further information, contact the Department of Nursing and Allied Health Sciences.

For associate degree nursing students, MSU will award credit for NURA 100 for satisfactory scores on the American College Proficiency Examination Program (ACT-PEP) exam in Fundamentals of Nursing. MSU will reward credit for NURA 101 for satisfactory scores on the NLN Achievement Test, Nursing the Child-Bearing Family Test, Psychiatric Nursing exam. To be eligible to take these exams, students must meet required criteria as outlined in the Associate Degree Nursing Program Challenge Examination Policy.

## University Counseling Center

The University Counseling Center, located in 112 Allie Young Hall, provides psychological services to enrolled students. The staff consists of a staff psychologist, substance abuse educator, and counselors.

Services provided to students include individual and group counseling and psychotherapy, and outreach programming for substance abuse education. Programs and services provide a critical resource for students as they face stressful adjustments to academic life, interpersonal relationships and personal development. All counseling communication and records are held with strict confidentiality to insure student privacy.

Services are available from 8 a.m. to 4:30 p.m., Monday through Friday with evening appointments scheduled as needed.

**Groups and Workshops.** In addition to group counseling, various workshops and special programs are scheduled to address specific needs of the University community. Topics include assertiveness training, stress management, depression, eating disorders, and dealing with roommate conflicts. Special-need support groups are provided. Call (606) 783-2123 for information.

**Substance Abuse Education.** The UCC provides a variety of educational programming addressing issues related to alcohol and drug abuse. The substance abuse educator serves as a coordinator for networking members of the University community with local and regional programs and services that assist individuals with alcohol and/or drug abuse related problems.

**Student Wellness Office and Peer Education Program.** This program is designed to contribute to the development of a healthy and satisfying lifestyle for members of the University community. Trained student volunteers give presentations to student groups, to classes, in residence halls, and to community groups. Programs are available on these focus areas: fitness, nutrition, and eating disorders; sexually transmitted diseases; alcohol and other drugs; tolerance and dealing with differences; and stress. The office is also a resource center for handouts, other speakers, and information on other health and wellness topics.

## Minority Student Affairs Director

The office provides assistance and support to minority students at MSU. Coordination of campus activities is conducted throughout the year to insure inclusion of educational, cultural, and social programs for minority students. Minority student adjustment and retention are promoted by assisting student leadership and advising individuals and organizations on student life/personal development goals. Through these efforts the office provides cultural enrichment and academic support for minority students while increasing cross-cultural understanding for the total campus community.

## International Student Services

The Counselor for International Students provides assistance and support during international student entry to MSU, coordination and documentation of compliance with immigration regulations, and cross-cultural programs for international education. *International students must consult the International Advisor when:*

1. applying to extend or change visas;
2. transferring to or from the University;
3. dropping classes below a full-time enrollment;
4. leaving the University for any reason;
5. accepting part-time employment for the first time or engaging in summer employment;
6. changing residence;
7. seeking practical training or its extension; and
8. obtaining Social Security forms.

The counselor for international students is available in 330 Allie Young Hall and/or by appointment.

## Career Services

The Office of Career Services, 322 Allie Young Hall, provides a full range of career-related services for current students and alumni. Services include career counseling, vocational testing, job search workshops, resume development and evaluations, video taped interviews, and access to an extensive career resource library. A one-hour credit course, MSU 400, is offered to assist graduating seniors in the job search process. Graduating students also have access to national and regional job vacancy lists, on-campus interview opportunities, and development of personal credential files. Students are welcome to visit the office any weekday between 8 a.m. and 4:30 p.m. if they desire help with career concerns or call (606) 783-2233 to make an appointment for individual help.

## Alumni Association

The MSU Alumni Association, Inc., is an organization operated exclusively for educational and charitable purposes designed to stimulate interest in Morehead State University. Active membership in the MSU Alumni Association, Inc., is available to all graduates and former students who make an annual contribution to the MSU Foundation, Inc. Associate membership is available to parents of students and friends of the University who make an annual contribution to the MSU Foundation, Inc. Active members receive several benefits such as discounts on concert tickets and season football or basketball tickets, a financial aid program for dependent children, and invitations to special events and activities.

The Alumni Association plans and coordinates Homecoming weekend in October of each year for alumni to return to MSU for a variety of activities.

## Camden-Carroll Library

Camden-Carroll Library is the information center of Morehead State University. The Library's collection of

books, periodicals, government documents, electronic databases, and other non-print media supports the University's curriculum and provides a wealth of resources to meet students' research, recreation, and personal enrichment needs. Print materials not owned by CCL may be requested through Interlibrary Loan.

"Information literacy" may be identified as a set of skills necessary to compete in today's service-oriented economy. The Library affords students the opportunity to develop these skills through hands-on-experience with sophisticated information storage and retrieval systems. An online catalog of Library holdings is provided through UNICORN, CCL's automated system, WEBCAT, a web-based version of the catalog, allows live links to Internet sources. A variety of online databases, indexes, and electronic journals are available through FirstSearch. All these resources are accessible to MSU faculty, staff, and students at the Library and through the campus network. Library staff are available to recommend sources and to help define research needs and suggest search strategies.

The Learning Resource Center, First Floor Tower, supplies audio-visual materials and is the site of one of the University's microcomputer labs. LRC maintains a selection of microcomputer software, as well as video recordings, cd-roms, tapes, and other materials. LRC orientation sessions may be arranged by calling 783-5102.

The Learning Technology Lab, Fourth Floor Tower, offers MSU faculty, staff, and students an opportunity to incorporate technology into their educational experience. The lab includes color scanners, digital cameras, video capture/edit capability, color printers, and a wide variety of software packages. Lab hours are Monday through Wednesday, 9 a.m. to 9 p.m. and Thursday through Friday, 9 a.m. to 5 p.m.

Instruction in library use is provided by Library staff on a one-to-one basis and in group settings. LSIM 101, a one-hour credit class in use of library resources and retrieval systems, is offered each semester. Individuals and groups may schedule library orientation/instruction sessions by calling 783-5114.

The Library is open seven days a week. Regular hours are 7:30 a.m. to 11 p.m., Monday through Thursday; 7:30 a.m. to 6 p.m., Friday; 9 a.m. to 5 p.m., Saturday; and 1 p.m. to 11 p.m., Sunday. Hours are subject to change during vacation periods. Call 783-2200 for current information.

Additional information about the Library and its services can be found on CCL's web page at <http://www.morehead-st.edu/units/library>.

## Academic Opportunities

### Cooperative Education

Cooperative Education provides supervised work experience in educational, vocational, governmental, and cultural environments outside the University. Students are awarded academic credit and remuneration for each work experience. Semesters of on-campus course work are alternated with semesters of salaried employment in an environment closely associated with the student's program of study. For additional information, contact your advisor or department chair.

### Government Symposia and Internships

The Washington Center National Government Seminar and Internship Program provides MSU students with the opportunity to study and work in Washington, D. C. The program, which is available to most undergraduate majors, provides both two-week intensive seminar and semester-long internships during the academic year and summer.

The seminar addresses major current legal, political, domestic, and foreign policy issues. A central feature of the seminar is the participation of persons currently involved in national political life as guest lecturers and discussion leaders. The internships have a study and work component: an evening course and a full-time government work experience. The course, held once a week, is taught by the Washington Center's faculty drawn from Washington, D. C. colleges and universities. The internships are full-time work experiences in the offices of congressmen and senators, on congressional committees and subcommittee staffs, and in government departments and regulatory commissions. The Washington Center provides housing and an on-site staff responsible for administration, placement, orientation, supervision, and evaluation for both seminars and internship participants.

Registration procedures, participation, evaluation, and the receipt of academic credit are governed by the MSU-Washington Center affiliation agreement with the Department of Geography, Government and History. The seminars carry three semester hours credit and the internships carry 15 semester hours credit. For additional information and application forms, contact the Department of Geography, Government, and History, 350 Rader Hall or call (606)783-2655.

### Television Courses

Each fall, spring, and summer semester a number of undergraduate and graduate courses are offered for credit by television. These courses may be applied toward the general education requirements and/or program of study requirements. Admission requirements are the same as for on-campus enrollment. A registration fee is charged in

addition to tuition. For an application contact the Office of Associate Vice President for Academic Affairs, 201 Ginger Hall. (All on-campus students must have their dean's or advisor's approval for telecourse enrollment.)

### Correspondence Courses

Correspondence courses allow students to complete college credit outside the formal classroom. Any undergraduate student enrolled at Morehead State University may register for correspondence credit. Others may register as special status students if they hold a high school diploma or a General Education Development (GED) certificate. Admission for correspondence study as a special status classification does not necessarily qualify participants for regular admission to residence study. However, a student may apply for admission to residence study at any time after the special status has been granted. A high school diploma or GED is required. Tuition is the same as the current undergraduate, in-state, hourly fee.

Credit earned by a combination of correspondence courses and credit by examination cannot exceed 32 semester hours toward a baccalaureate degree or 16 semester hours toward an associate degree. Correspondence enrollment will not be considered in the determination of full-time status. For an application and complete detail, contact the Correspondence Study Program, 201 Ginger Hall.

### Honors Program

The Honors Program is an academically-enriched program that provides highly motivated students with small classes, direct and personal contact with faculty members, and greater curriculum flexibility.

Freshmen and sophomores take a sequence of honors classes which fulfill general education requirements, upper division students participate in at least two honors seminars, and seniors undertake an independent study project in their major field.

Members of the Honors Program receive special opportunities and recognitions. They may enroll for additional credit hours each semester; have their major field content requirements altered for greater flexibility; receive special library privileges, including a separate study room; participate in cultural enrichment trips to concerts, plays, and museums in surrounding cities; participate in a twice yearly "seminar week" with students from other state Honors Programs; participate in regional and national Honors conferences; help faculty in their research projects; and be recognized during Academic Awards Convocation and Commencement. Participation is noted on the academic transcript.

High school students who have composite ACT examination scores of 26 or above and a strong high school academic record are eligible. College students, including transfer and second semester freshmen who have a cumulative 3.5 grade point average, are invited to become members. Once admitted to the program, a student must maintain a 3.4 grade point average. The Honors Program

awards 11 scholarships each year to entering freshmen. If you would like more information or admission forms, contact the Honors Program Director, Morehead State University, UPO Box 665, Morehead, KY 40351-1689.

### Academic and Honor Organizations

Numerous organizations offer opportunities for academic enrichment outside the classroom. Members may participate in informal discussions with faculty and professionals, field trips, and on-campus programs. Further information is available by contacting the specific organizations listed below:

#### Academic

Accounting Club--UPO 1041  
Alpha Lambda Pi (paralegal)--UPO 2409  
Alpha Tau Sigma (veterinary technology)--UPO 1044  
American Chemical Society-Student Affiliates--UPO 2455  
Chi Beta Gamma (radiologic technology)--UPO 784  
Data Processing Management Association--UPO 1332  
Economics and Finance Club--UPO 175  
El Club Espanol--UPO 1401  
Fashion Merchandising Club--UPO 2464  
FFA Collegiate Chapter (Future Farmers of America)--UPO 702  
International Trombone Association--UPO 1266  
Kentucky Education Association, Student Program--UPO 978  
LeCercle Francais--UPO 1215  
Math Club--UPO 701  
National Association of Industrial Technology--UPO 2483  
National Student Nurses Organization--UPO 715  
Prae Medicorum (pre-medicine)--UPO 1386  
Pre-Physical Assistant Studies Student Association--UPO 455  
Pre-Professional Graduate Student Section of American Association of Family and Consumer Science--UPO 889  
Pre-Veterinary Medicine Club--UPO 995  
Sigma Alpha Iota (music: women)--UPO 1392  
Societas Pro Legibus (pre-law)--UPO 1273  
Student Hospitality and Dietetics Club--UPO 889  
Tubists Universal Brotherhood Association--UPO 1394

#### Honor

Academic Honors Student Association--UPO 665  
Cardinal Key National Honor Society (juniors and seniors)--UPO 1223  
Gamma Beta Phi (scholastic and service)--UPO 1334  
Kappa Delta Pi (education)--UPO 1035  
Kappa Omicron Nu (home economics)--UPO 1052  
Order of Omega (Greek Letter Honor Society)--UPO 2425  
Phi Alpha Theta (history)--UPO 2445  
Phi Mu Alpha Sinfonia (music)--BM 233  
Phi Sigma Pi--UPO 2482  
Pi Delta Phi (French)--UPO 1215  
Pi Sigma Alpha (political science)--UPO 2428  
Pinnacle Non-Traditional Honor Society--UPO 917  
Psi Chi (psychology)--UPO 2469  
Rho Lambda (sorority women)--UPO 2474  
Sigma Tau Delta (English)--UPO 2465

## College of Business

Robert Albert (Interim Dean)  
(606)783-2174  
214 Combs Building  
FAX: (606)783-5025

Department of Accounting, Economics and Finance  
Department of Information Systems  
Department of Management and Marketing



## College of Business Programs

Department of  
Accounting,  
Economics & Finance

Department of  
Information  
Systems

Department of  
Management &  
Marketing

### with programs in:

Accounting  
Economics  
Finance

Computer Information Systems  
Business and Marketing  
Education  
Business Information Systems

Management  
Marketing  
Real Estate

The College of Business offers a Bachelor of Business Administration degree with options in Accounting, Business and Marketing Education, Business Information Systems, Computer Information Systems, Economics, Finance, Management, Marketing, and Real Estate. These options are not majors. The **major** is Business Administration.

An Associate of Applied Business degree is also offered by the College of Business. The Associate of Applied Business degree has the following options: Business Information Systems, Computer Information Systems, General Business, and Real Estate. A minor in Business is available to all students, except those majoring in Business Administration.

All of MSU's business programs are accredited by the **Association of Collegiate Business Schools and Programs**. Less than 30% of all business programs in the U.S. are fully accredited. Recent innovations within the college include the establishment of a state-of-the-art CD-ROM computer lab and classroom use of up-to-date business software programs which employers indicate are used in today's business environment. Business students have the opportunity to use computer software packages to gain experience in word processing, spreadsheet applications, accounting packages, and programming languages, giving them an advantage when they seek employment after graduation.

The **SMALL BUSINESS DEVELOPMENT CENTER (SBDC)** services the needs of aspiring and established entrepreneurs in Eastern Kentucky. The MSU SBDC was established to provide one to one counseling services, continuing education programs, and management and technical assistance for prospective as well as established business owners. The SBDC also sponsors special projects and conducts research in areas of importance to small businesses throughout its 25-county service area. The MSU main campus office and the two sub-center offices in Pikeville and Ashland offer the following core counseling and training services: Needs Assessment, Comprehensive Business Planning, Market Research, Financial Statement Analysis and Control, Cash Flow Analysis and Financial Projections, Management Issues Unique to Small Firms, and Technology Transfer.

The **CENTER FOR ECONOMIC EDUCATION** is very active in the service region promoting economic education at all ages. The Center strives to establish and promote its activities in the following ways: coordination of the Ashland Advocates, operation of a resource library of economics education curriculum at the MSU Ashland Area Extended Campus Center and MSU campus, and professional development training K through 12 teachers in economic education activities in Ashland, Elliott, Carter, and Johnson counties. The MSU Center for Economic Education plans to expand its outreach to the Fleming County region and Southeast Kentucky, and all 22 counties within MSU's service region by preparing and recruiting for the various economic education training seminars.

### NATIONAL ADVISORY BOARD

The College of Business has a National Advisory Board which is composed of alumni and business leaders from the region who have made substantial contributions in their profession. They work with the college to ensure that the degree programs provide students with "real life" perspectives and that its activities serve the MSU service region. Members of the Board include: Norris Beckley, Office of Minority Affairs, Transportation Cabinet; Marcheta T. Blackburn, Kentucky National Bank; James H. Booth, Beech Fork Processing, Inc.; J. Hagan Codell, The First National Bank of Jackson; Randy Coe, Kosair Charities; Bridgett Collier, Turf Town Properties, Inc.; Larry Columbia, Kroger; Sara Walter Combs, Division I Judge, Kentucky Court of Appeals; Wally Ewers, Shoney's Restaurant; Billy Joe Hall, Linsco/Private Ledger Financial Services; Rickey D. Harp, Farmers Bank and Capital Trust Company; William J. Jessie, Kentucky Electric Steel, Inc.; Jerry Johnson, National City Bank; Leslie Kauffman, South-Western Publishing; John P. Knight, Sumitomo Electric Wiring Systems, Inc.; David Michael, Community Holding Company; Roger Meade, Meade and Associates; Mark Neff, St. Claire Medical Center; Denny Northcutt, Northcutt and Son Home for Funerals, Inc.; Laura O'Connor, Mountain Rural Telephone; Jeff Riley, Kentucky Lottery Corporation; Karen C. Seiler, Micro Computer Solutions; John D. Sewell, First National Bank;

Mike Shields, Owingsville Banking Company; Patricia B. Skeans, Morehead National Bank; C. K. Stacy, II, Bank of the Mountains; George Stevens, United States Achievement Academy; John Taylor, Peyton's Northern Distribution Center; Dennis Wallingford, Toyoto Motor Manufacturing; Joyce Crouch Whiting, Toyota Motor Manufacturing, Inc.; Gary Wientjes, Morehead Clinic Pharmacy; Harold Wilson, Caswell Prewitt Realty, Inc.; and Gary K. Young, Pikeville National Bank.

## Bachelor of Business Administration (BBA)

### General Education Requirements

For a complete listing of approved general education courses, please refer to pages 19 through 22.

#### I. Required Core

|                                                | Sem. Hrs. |
|------------------------------------------------|-----------|
| ENG 100--Writing I                             | 3         |
| **ENG 200--Writing II                          | 3         |
| SPCH 108--Fundamentals of Speech Communication | 3         |
| MATH 152--College Algebra                      | 3         |
| CIS 101--Computers for Learning                | 3         |
|                                                | 15        |

#### II. Area Studies

Only one course may be chosen from each prefix in Area Studies courses; for example, only one course from the three ART courses may be chosen to satisfy the nine hours of humanities for the Area Studies General Education Requirements.

##### Humanities

|                                           |   |
|-------------------------------------------|---|
| Humanities listed under General Education | 9 |
|-------------------------------------------|---|

##### Natural and Mathematical Sciences

|                                                                    |   |
|--------------------------------------------------------------------|---|
| Math 354--Business Statistics                                      | 3 |
| Any BIOL course listed under General Education                     | 3 |
| Any SCI, CHEM, PHYS, or GEOS course listed under General Education | 3 |

##### Social and Behavioral Sciences

|                                        |   |
|----------------------------------------|---|
| ECON 201--Principles of Macroeconomics | 3 |
| PSY 154--Introduction to Psychology    | 3 |
| SOC 101--General Sociology             | 3 |

##### Practical Living

|                           |   |
|---------------------------|---|
| FIN 264--Personal Finance | 3 |
|---------------------------|---|

#### III. Integrative Component

|                                               |          |
|-----------------------------------------------|----------|
| ***MNGT 499C--Business Policies and Practices | 3        |
|                                               | Total 48 |

### Additional BBA Supplemental Requirements

|                                                               |                                    |
|---------------------------------------------------------------|------------------------------------|
| ECON/MNGT 300: Quantitative Methods in Business and Economics | 3                                  |
| Any ECON Course Above 300                                     | 3                                  |
| Non Business Free Electives                                   | 10                                 |
|                                                               | Supplemental Total 16              |
|                                                               | Gen. Ed. and Supplemental Hours 64 |

### Pre-Business Core

|                                        |   |
|----------------------------------------|---|
| ACCT 281--Principles of Accounting I   | 3 |
| ACCT 282--Principles of Accounting II  | 3 |
| ECON 201--Principles of Macroeconomics | • |
| ECON 202--Principles of Microeconomics | 3 |
| PSY 154--Introduction to Psychology    | • |
| MNGT 261--The Legal Environment        | 3 |

|                                 |          |
|---------------------------------|----------|
| CIS 101--Computers for Learning | •        |
| MATH 152--College Algebra       | •        |
| SOC 101--General Sociology      | •        |
|                                 | Total 12 |

*Admission to the College of Business degree program requires completion of the Pre-Business Core and a cumulative GPA of 2.25.*

### Upper Division Business Core

|                                                               |          |
|---------------------------------------------------------------|----------|
| BIS 321--Business Communication                               | 3        |
| FIN 360--Business Finance                                     | 3        |
| MNGT 301--Principles of Management                            | 3        |
| CIS 311--Management Information Systems                       | 3        |
| MKT 304--Marketing                                            | 3        |
| ACCT/FIN 375--Accounting Analysis & Financial Decision-Making | 3        |
| MNGT 465--Organizational Behavior                             | 3        |
| MNGT 499C--Business Policies & Problems                       | •        |
| MSU 400--World of Work (Bus. Majors)                          | 1        |
| ECON/MNGT 300--Quantitative Methods in Business and Economics | •        |
| Any ECON course above 300                                     | •        |
| BIS 421--Business & Technical Presentations                   | 3        |
|                                                               | Total 25 |

### Options

|                                           |          |
|-------------------------------------------|----------|
| Choose one option from those listed below | 27       |
|                                           | Total 27 |

**Grand Total Business Hours 64**

\*\*\*Students are required to take a paired course in the area studies with ENG 200.

• Course hours have been counted in another area.

\*\*\*Students are required to have an integrative component within the General Education requirements.

### Option Requirements

All students choosing this degree option must complete a 21-30 credit hour field of specialization which is to be selected from the following fields of study and approved by the academic advisor.

|             |                                  |
|-------------|----------------------------------|
| Accounting  | Computer Information Systems     |
| Economics   | Business Information Systems     |
| Finance     | Business and Marketing Education |
| Management  | Marketing                        |
| Real Estate |                                  |

### Note for Students Wishing to Complete a Double Option:

No course used to satisfy the requirements of one option may be used to meet the requirements of the second option.

### Competencies Required in BBA Programs

Students completing the BBA program will have:

1. An understanding of ethical conduct and sound ethical reasoning.
2. An understanding of global business issues.
3. Strong written communication skills.
4. Strong oral communication skills.
5. An understanding of social and political influences on business.
6. An understanding of diversity within the business environment.
7. Foundational skills in accounting, finance, organizational behavior, economics, marketing, mathematics, statistics, and computer technology.
8. Interpersonal skills.

### Assessment Procedures

The BBA/AAB Outcomes Assessment Program includes three annual processes to provide input for the continuous improvement of the programs:

Undergraduate Alumni Survey  
Recruiter Survey  
Departmental Exit Questionnaire

### Minor (General Business)

(Not available to Business Administration Majors)

### Business Minor Requirements

|                                                           |           |
|-----------------------------------------------------------|-----------|
| ACCT 281--Principles of Accounting I                      | 3         |
| ACCT 282--Principles of Accounting II                     | 3         |
| BIS 321--Business Communications                          | 3         |
| FIN 264--Personal Finance                                 | 3         |
| ECON 201--Principles of Macroeconomics                    | 3         |
| ECON 202--Principles of Microeconomics                    | 3         |
| MNGT 261--The Legal Environment of Business Organizations | 3         |
| MNGT 301--Principles of Management                        | 3         |
| MKT 304--Marketing                                        | 3         |
| <b>Total</b>                                              | <b>27</b> |

(CIS 101 must be taken as the computer competency course.)

## Department of Accounting, Economics, and Finance

Green Miller, Chair  
(606) 783-2152  
222 Combs Building

### Accounting

**Faculty**--J. Alcorn, T. Elliott, M. Gaddis, J. Graham, J. Osborne, M. Sale, S. Walters, K. Williams

### Competencies Required in the Program

Students completing the program will:

1. Be prepared for an entry level position in accounting or for graduate study in accounting or other business fields.
2. Meet all academic requirements for taking the CPA and other professional accounting exams.
3. Complete a sequence of accounting courses which prepares them to: (a) set up an accounting system, (b) make ready all standard financial statements, and (c) analyze accounting data and statements for use in managerial decision making.

### Assessment Procedures

Exit examination  
Independent written and oral assignments  
BBA Outcomes Assessment Program

## Bachelor of Business Administration

### Accounting Option

In addition to the option courses listed below, the general education BBA core (Pg. 39) and free electives must be completed. The option is composed of 27 hours of specialized courses in accounting.

|                                       |           |
|---------------------------------------|-----------|
| ACCT 381--Intermediate Accounting I   | 3         |
| ACCT 382--Intermediate Accounting II  | 3         |
| ACCT 383--Intermediate Accounting III | 3         |
| ACCT 387--Income Tax                  | 3         |
| ACCT 390--Cost Accounting I           | 3         |
| ACCT 483--Auditing I                  | 3         |
| Approved accounting electives         | 9         |
| <b>Total</b>                          | <b>27</b> |

### Approved electives for the Accounting Option:

|                                          |   |
|------------------------------------------|---|
| ACCT 391--Accounting Information Systems | 3 |
| ACCT 428--Governmental Accounting        | 3 |
| ACCT 475--Controllershship               | 3 |
| ACCT 482--Advanced Accounting            | 3 |
| ACCT 484--Auditing II                    | 3 |
| ACCT 490--Cost Accounting II             | 3 |

Beginning in the year 2000, Kentucky Accountancy law requires 150 college credit hours for those taking the Uniform Certified Public Accountant examination. Students can take additional undergraduate hours to fulfill the 150-hour requirement; however, it is recommended that students wanting to fulfill the 150-hour requirement at Morehead State University should consider completing the requirements for the MBA degree, or a Master of Accountancy program. MSU graduates, through an agreement with Northern Kentucky University, are given preference in admission to the NKU MA program.

## Economics

**Faculty**--A. Ahmadi, R. Buck, T. Creahan, G. Miller (Chair), M. Yasin

### *Competencies Required in the Program*

Students completing the program will:

1. Be prepared for an entry level management trainee position in a manufacturing or service industry, a public sector of the economy, or in any other major business (profit or non-profit) enterprise.
2. Be qualified for graduate study in economics, finance, or other fields directly related to economics by completing a sequence of courses which prepares them to: (a) do basic analysis of economics and financial events, (b) prepare written reports concerning economic and financial events useful for making managerial and other business decisions, (c) present oral reports concerning economic and financial events.

### *Assessment Procedures*

Exit examinations  
Independent written and oral assignments  
BBA Outcomes Assessment Program

## Bachelor of Business Administration

### Economics Option

In addition to the option courses listed below, the general education, BBA core (Pg. 39) and free electives must be completed. The option is composed of 24 hours of specialized courses in economics.

|                                                   |   |
|---------------------------------------------------|---|
| ECON 302--Labor Economics                         | 3 |
| ECON 341--Public Finance                          | 3 |
| ECON 342--Money and Banking                       | 3 |
| ECON 350--Microeconomic Theory                    | 3 |
| ECON 410--History of Economic Thought             | 3 |
| ECON 447--International Economics                 | 3 |
| ECON 451--Macroeconomics and Stabilization Policy | 3 |
| Approved economic elective                        | 3 |

### *Approved electives for the Economics Option:*

|                                            |   |
|--------------------------------------------|---|
| ECON 305--Comparative Economic Systems     | 3 |
| ECON 303--Introduction to Econometrics     | 3 |
| ECON 401--Environmental Economics          | 3 |
| ECON 403--Urban and Regional Economics     | 3 |
| ECON 455--Economics Development and Growth | 3 |
| FIN 343--Investments                       | 3 |
| FIN 443--Portfolio Analysis                | 3 |
| FIN 485--International Finance             | 3 |
| MATH 175--Analytic Geometry and Calculus I | 4 |

Any course used to fulfill a BBA/Core requirement may not also count to fulfill a BBA/Economics Requirements. In such cases, a course or courses from the list of approved electives must be substituted for the course used to fulfill the BBA/Core requirement.

## Finance

**Faculty**--R. Albert, R. Carlson, I. Hullur

### *Competencies Required in the Program*

Students completing the program will:

1. Be prepared for an entry level management trainee position in the financial sector, in a manufacturing or service industry, or in any other major business (profit or non-profit) enterprise.
2. Be qualified for graduate study in finance, economics, management, marketing, or any other field directly related to finance by completing a sequence of finance courses which prepares them to: (a) do basic analysis of financial activity and/or events, (b) prepare written reports concerning financial activity and/or events, and (c) present oral reports concerning financial activity and/or events.

### *Assessment Procedures*

Exit examination  
Independent written and oral assignments  
BBA Outcomes Assessment Program

## Bachelor of Business Administration

### Finance Option

In addition to the option courses listed below, the general education, BBA core (Pg. 39), and free electives must be completed. The option is composed of 27 hours of specialized courses in finance.

|                                                   |   |
|---------------------------------------------------|---|
| FIN 343--Investments                              | 3 |
| FIN 370--Working Capital Management               | 3 |
| FIN 420--Financial Markets and Institutions       | 3 |
| FIN 460--Advanced Business Finance                | 3 |
| FIN 485--International Finance                    | 3 |
| FIN 490--Seminar in Financial Theory and Practice | 3 |
| Approved finance electives                        | 9 |

**Approved Finance Option Elective Courses:**

|                                       |     |
|---------------------------------------|-----|
| ACCT 387--Income Tax                  | 3   |
| ECON 447--International Economics     | 3   |
| FIN 322--Financial Services Marketing | 3   |
| FIN 325--Bank Management              | 3   |
| FIN/ECON 342--Money and Banking       | 3   |
| FIN 443--Portfolio Analysis           | 3   |
| FIN 486--Student-Managed Fund         | 3-6 |
| MKT 350--Personal Selling             | 3   |
| REAL 331--Real Estate Finance         | 3   |
| REAL 335--Real Estate Investment      | 3   |

**Students may choose one of three "tracks" to follow in the Finance Option:**

**Corporate Finance Track**

|                                          |    |
|------------------------------------------|----|
| Finance Core                             | 18 |
| Electives chosen from approved electives | 9  |

**Bank Management Track**

|                                       |    |
|---------------------------------------|----|
| Finance Core                          | 18 |
| Bank Management Speciality --         |    |
| FIN 322--Financial Services Marketing | 3  |
| FIN 325--Bank Management              | 3  |
| FIN/ECON 342--Money and Banking       | 3  |

**Investments Track**

|                               |    |
|-------------------------------|----|
| Finance Core                  | 18 |
| Investments Speciality --     |    |
| FIN 443--Portfolio Analysis   | 3  |
| FIN 486--Student-Managed Fund | 3  |
| MKT 350--Personal Selling     | 3  |
| or                            |    |
| FIN 443--Portfolio Analysis   | 3  |
| FIN 486--Student-Managed Fund | 6  |

## Department of Information Systems

Elizabeth Regan, Chair  
(606) 783-2163  
320 Combs Building

## Computer Information Systems

**Faculty**--B. Bailey, S. Hunt, R. McCoy, L. Parrish, D. Tesch, R. Tesch

**Competencies Required in the Program**

*Students completing the program should be able to:*

1. Demonstrate knowledge of problem-solving within the context of information systems.
2. Appreciate the importance of information systems for organizations and understand how technology is used to manage information within organizational structures.
3. Apply concepts and processes of, as well as an understanding of, computer information systems development.

4. Design and implement a simple information system.
5. Understand the characteristics and uses of databases as they are used in the business environment, and become familiar with theoretical and application database structures, creation, modification, processing, and physical representation.
6. Code a fairly complex problem in COBOL or C and have that program execute successfully.

**Assessment Procedures**

*BBA Outcomes Assessment Program*

## Bachelor of Business Administration

### Computer Information Systems

In addition to the option courses listed below, the general education, BBA core (Pg. 39) and free electives must be completed. The option is composed of 27 hours of specialized courses in computer information systems.

|                                                   |   |
|---------------------------------------------------|---|
| CIS 200--Logic and Program Design                 | 3 |
| CIS 205--Fundamentals of C/C++ Programming; or    |   |
| CIS 215--COBOL I                                  | 3 |
| CIS 305--Advanced C++ Programming; or             |   |
| CIS 315--COBOL II                                 | 3 |
| CIS 311--Intro. to Management Information Systems | 3 |
| CIS 325--Analysis and Design                      | 3 |
| CIS 426--Database Management                      | 3 |
| CIS 499C--Systems Development Project             | 3 |
| Approved CIS Electives                            | 6 |

**Approved electives for the CIS Option:**

|                                                |   |
|------------------------------------------------|---|
| CIS 202--Structured Programming Basic          | 3 |
| CIS 205--Fundamentals of C/C++ Programming; or |   |
| CIS 215--COBOL I                               | 3 |
| CIS 211--Microcomputers                        | 3 |
| CIS 260--Structured FORTRAN Programming        | 3 |
| CIS 303--DATA Structures                       | 3 |
| CIS 305--Advanced C++ Programming; or          |   |
| CIS 315--COBOL II                              | 3 |
| CIS 430--Advanced CIS Topics                   | 3 |
| CIS 440--Networking and Telecommunications     | 3 |

### Minor in Business Administration (Computer Information System)

(Not available to business administration majors)

**Course Requirements**

|                                                         |   |
|---------------------------------------------------------|---|
| CIS 101--Computers for Learning                         | 3 |
| CIS 200--Logic and Programming Design                   | 3 |
| CIS 205--Fundamentals of C/C++ Programming; or          |   |
| CIS 215--COBOL I                                        | 3 |
| CIS 211--Microcomputers                                 | 3 |
| CIS 311--Introduction to Management Information Systems | 3 |
| CIS 325--Analysis and Design                            | 3 |
| CIS approved electives                                  | 6 |

## Business Information Systems

**Faculty**--D. Everett, J. Henson, S. Hunt, H. Iwu

### Competencies Required in the Program

*Students completing the program should be able to*

1. *Assess the need for, implement, and evaluate information technologies for the desktop computer environment.*
2. *Assess the need for, design, implement, and evaluate training programs for business professionals working in organizations.*
3. *Analyze the needs of end-users in a variety of business functions and recommend information systems solutions to improve performance.*
4. *Assess the need for, implement, and evaluate networking environments.*
5. *Assess the need for, implement, and evaluate business hardware and software tools.*
6. *Apply information technology to support workplace performance at all organizational levels.*
7. *Analyze comprehensive cases describing organizations; identify problems or decisions associated with end-user information systems; and plan activities for solving the problems or making decisions.*

### Assessment Procedures

Minimum g.p.a. of 2.0 in the general education component courses; g.p.a. of 2.25 in the pre-business core courses, the upper division business core courses, and the specialized core of courses in the Business Information Systems program  
BBA Outcomes Assessment Program

## Bachelor of Business Administration

### Business Information Systems Option

In addition to the option courses listed below, the general education courses, BBA core courses, and free electives must be completed. The option is composed of **27 hours** of specialized courses in Business Information Systems (BIS) and Computer Information Systems (CIS).

|                                                                                                        |   |
|--------------------------------------------------------------------------------------------------------|---|
| BIS 240--Information Resources Management                                                              | 3 |
| BIS 320--Information Processing Applications                                                           | 3 |
| BIS 340--End-User Information Systems                                                                  | 3 |
| BIS 363--Administrative Information Systems                                                            | 3 |
| BIS 425--Training and Development in Industry                                                          | 3 |
| BIS 398--Practicum in Information Systems; or<br>CIS 339--Cooperative Education in Information Systems | 3 |
| CIS 211--Microcomputers                                                                                | 3 |
| CIS 440--Telecommunications and Networking                                                             | 3 |
| CIS 300-400 approved elective                                                                          | 3 |

27

## Minor in Business Administration (Business Information Systems)

(Not available for Business Administration majors)

### Course Requirements

|                                               |    |
|-----------------------------------------------|----|
| BIS 240--Information Resources Management     | 3  |
| BIS 320--Information Processing Applications  | 3  |
| BIS 321--Business Communications              | 3  |
| BIS 340--End-User Information Systems         | 3  |
| BIS 363--Administrative Information Systems   | 3  |
| BIS 425--Training and Development in Industry | 3  |
| CIS 211--Microcomputers                       | 3  |
|                                               | 21 |

## Business and Marketing Education

**Faculty**--D. Everett, J. Henson, S. Hunt, H. Iwu

(Note: The Business and Marketing Education program is designed for those students who are seeking certification to teach Business and Marketing Education in Grades 5-12. It is possible to obtain a minor in Business and Marketing Education as a second teaching field.)

### Competencies Required in the Program

*Students completing the program should be able to*

1. *Develop career awareness and related skills to enable students to make viable career choices and become employable in a variety of business and marketing careers.*
2. *Communicate effectively as writers, listeners, and speakers in business and marketing settings.*
3. *Use accounting procedures to make decisions about planning, organizing, and allocating resources.*
4. *Analyze and interpret the legal system as it affects consumers, producers, and/or entrepreneurs.*
5. *Demonstrate interpersonal, team, and leadership skills necessary to function in multicultural business and marketing settings.*
6. *Practice economic literacy through the development of economic skills, a knowledge of social and government responsibility, and an understanding of business and marketing operations.*
7. *Select and apply the tools of technology as they relate to business and marketing situations.*
8. *Manage data from all of the functional areas of business and marketing needed to make effective management decisions.*
9. *Demonstrate entrepreneurial skills drawing from a general understanding of all aspects of business and marketing.*
10. *Describe the interrelationships of different functional areas of business and marketing and the impact of one component on another.*

11. Apply marketing functions as they relate to products and services.
12. Develop the ability to participate in business and marketing transactions in both domestic and international arenas.
13. Formulate objectives, courses of study, and evaluation criteria for a business and marketing education curriculum in grades 5-12.
14. Demonstrate the ability to use a variety of teaching methods and effective classroom management techniques in the business and marketing education classroom.

#### Assessment Procedures

- Surveys of secondary supervisors of student teachers
- Surveys of students
- Entrance and exit proficiency examinations

## Bachelor of Business Administration

### Business and Marketing Education Specialty

Students must complete general education requirements, designated BBA core courses, professional education core courses, business and marketing education specialty courses, and any free elective courses which are listed below. The business and marketing education curriculum will satisfy certification requirements for teaching business and marketing courses in grades 5-12. An endorsement may be completed for teaching computer science. Vocational approval may be received after completing 2,000 hours of acceptable work experience.

### General Education Requirements

(Note: Unless otherwise indicated, the courses listed are required for Business and Marketing Education majors.)

#### I. Required Core

|                                                |   |
|------------------------------------------------|---|
| ENG 100--Writing I                             | 3 |
| *ENG 200--Writing II                           | 3 |
| MSU 101--Discovering University Life           | 1 |
| SPCH 108--Fundamentals of Speech Communication | 3 |
| MATH 152--College Algebra                      | 3 |
| CIS 101--Computers for Learning                | 3 |

#### II. Area Studies

Humanities 9

Choose from the following courses:

- ART 263--Art History I
- ART 264--Art History II
- ART 265--Art History III
- ENG 205--Language: Culture and Mind
- FNA 160--Understanding the Visual Arts
- GOVT 210--Introduction to Political Theory
- MUSH 361--History of Music I
- MUSH 362--History of Music II
- PHIL 200--Introduction to Philosophy
- PHIL 203--Social Ethics
- PHIL 306--Introduction to Logic
- SPA 101--Spanish Language and Culture I

- SPA 102--Spanish Language and Culture II
- SPCH 350--Communication, Culture and Diversity
- SPCH 390--Conflict and Communication
- THEA 110--Introduction to Theater

#### Natural and Mathematical Sciences \*

- BIOL 105--Introduction to Biological Sciences 3
- MATH 354--Business Statistics 3
- SCI 103--Introduction to Physical Sciences 3

#### Social and Behavioral Sciences

- ECON 201--Principles of Macroeconomics 3
- ECON 202--Principles of Microeconomics 3
- PSY 154--Introduction to Psychology 3

#### Practical Living

- FIN 264--Personal Finance 3

### III. Integrative Component

- BIS 499C--Methods of Teaching Business and Marketing Education 3

- MSU 101--Discovering University Life 1

Total 49

\* Business and Marketing Education students are required to take a paired course in the area studies with ENG 200--either ECON 201, ECON 202, or PSY 154.

### BBA Core for Teacher Education Programs

|                                                           |    |
|-----------------------------------------------------------|----|
| ACCT 281--Principles of Accounting I                      | 3  |
| ACCT 282--Principles of Accounting II                     | 3  |
| BIS 321--Business Communications                          | 3  |
| BIS 421--Business and Technical Presentations             | 3  |
| MNGT 261--The Legal Environment of Business Organizations | 3  |
| MKT 304--Marketing                                        | 3  |
| MKT 354--Consumer Behavior                                | 3  |
| MKT 455--Advertising; or                                  |    |
| MKT 469--International Marketing                          | 3  |
|                                                           | 24 |

### Business and Marketing Education Specialty

|                                                                 |     |
|-----------------------------------------------------------------|-----|
| BIS 115--Word Processing Applications                           | 3   |
| BIS 240--Information Resources Management                       | 3   |
| BIS 320--Information Processing Applications                    | 3   |
| BIS 340--End-User Information Systems                           | 3   |
| BIS 363--Administrative Information Systems                     | 3   |
| BIS 425--Training and Development in Industry                   | 3   |
| *BIS 499C--Methods of Teaching Business and Marketing Education | (3) |
| CIS 211--Microcomputers                                         | 3   |
| CIS 440--Telecommunications and Networking or                   |     |
| CIS 300+ approved elective                                      | 3   |
|                                                                 | 24  |

\* This course is calculated in the hours for general education.

Before enrolling in 300 and above education courses, students must apply for and be admitted to the Teacher Education Program. Included among the requirements are at least a 2.5 overall GPA and completion of selected courses. *For specific requirements, please refer to the Teacher Education Program information in the College of Education and Behavioral Sciences section of this catalog.*

### Professional Education

|                                             |   |
|---------------------------------------------|---|
| EDF 207--Foundations of Secondary Education | 3 |
| EDF 211--Human Growth and Development       | 3 |
| EDF 311--Learning Theories in the Classroom | 3 |

|                                                                 |     |
|-----------------------------------------------------------------|-----|
| EDMG 306--Development and Learning in the Middle Grades         | 3   |
| EDSP 332--Teaching the Exceptional Student                      | 2   |
| EDSE 312--Teaching Skills and Media                             | 3   |
| EDSE 333--Field Experience in Secondary Education               | 2   |
| EDSE 415--Teacher in Today's School                             | 2   |
| *BIS 499C--Methods of Teaching Business and Marketing Education | (3) |
| EDSE 416--Student Teaching                                      | 12  |
|                                                                 | 33  |

\* This course is calculated in the hours for general education.

All teacher applicants for initial certification in Kentucky shall complete the National Teacher Examinations (NTE) for communication skill, general knowledge, professional knowledge, and appropriate specialty test by meeting the standards set by the Kentucky State Department of Education (704 KAR 20:670).

## Department of Management and Marketing

M. Peggy Osborne, Chair  
(606) 783-2164  
313 Combs Building

## Management

**Faculty**--J. Bogert, C. Caudill, R. Cheek, M. Harford, R. Hatfield, B. Hoge, A. Lewis

### Competencies Required in the Program

Students completing the program will have:

1. An understanding of organizational types and behavior.
2. An understanding of organizational transactions and the roles of organizations in society.
3. An understanding of the use of management theory and the practices of management.
4. The ability to devise and implement a variety of managerial strategies, including those dealing with human resource management and labor relations.
5. The ability to identify issues and devise appropriate courses of action for small business management.
6. The ability to identify the specific legal and ethical concerns in business, and devise appropriate courses of action for organizations in problem resolution.

### Assessment Procedures

Exit examination

BBA Outcomes Assessment Program

## Bachelor of Business Administration

### Management Option

In addition to the option courses listed below, the general education, BBA core (Pg. 39) and free electives must be completed. The option is composed of 27 hours of specialized courses in management.

|                                                      |           |
|------------------------------------------------------|-----------|
| MNGT 306--Production and Quality Management          | 3         |
| MNGT 310--Small Business Organization                | 3         |
| MNGT 311--Human Resource Management                  | 3         |
| MNGT 357--Business Information and Industry Analysis | 3         |
| MNGT 463--Law and Ethics of Business                 | 3         |
| MNGT 475--Business Leadership and Teamwork           | 3         |
| MNGT electives                                       | 6         |
| Approved business elective                           | 3         |
| <b>Total</b>                                         | <b>27</b> |

### Approved electives for the Management Option:

|                                                                        |   |
|------------------------------------------------------------------------|---|
| ACCT 475--Controllership                                               | 3 |
| ECON 302--Labor Economics                                              | 3 |
| ECON 305--Comparative Economic Systems                                 | 3 |
| ECON 410--History of Economic Thought                                  | 3 |
| ECON 447--International Economics                                      | 3 |
| CIS 211--Microcomputers                                                | 3 |
| FIN 342--Money and Banking                                             | 3 |
| FIN 343--Investments                                                   | 3 |
| MNGT 310--Small Business Organization                                  | 3 |
| MNGT 362--The Legal Environment & Business Policies                    | 3 |
| MNGT 411--Labor Relations                                              | 3 |
| MNGT 417--Management & Marketing of Public and Nonprofit Organizations | 3 |
| MNGT 465--Organizational Behavior                                      | 3 |
| MNGT 476--Special Problems in Management                               | 3 |
| MKT 305--Purchasing                                                    | 3 |
| MKT 350--Personal Selling                                              | 3 |
| MKT 351--Sales Management                                              | 3 |
| MKT 354--Consumer Behavior                                             | 3 |
| MKT 451--Retail Marketing                                              | 3 |
| MKT 452--Market Research Analysis                                      | 3 |
| MKT 453--Market Planning & Strategies                                  | 3 |
| REAL 105--Principles of Real Estate                                    | 3 |
| REAL 309--Real Estate Land Planning & Development                      | 3 |
| REAL 330--Real Estate Property Management                              | 3 |
| REAL 335--Real Estate Investment                                       | 3 |

## Marketing

**Faculty**--R. Lorentz, P. Osborne, S. Vollmers

### Competencies Required in the Program

Students completing the program will have:

1. An understanding of the marketing mix of product, price, promotion and distribution.
2. An ability to identify issues and resolve problems in the management of marketing functions.
3. An understanding of the concepts of consumer behavior and an ability to identify and implement effective marketing strategies for consumer behavior.
4. An ability to engage in the planning and implementation of the sales process.

5. An ability to do market research, including the collection and analysis of data.
6. An ability to devise and implement promotional strategies for products and services.
7. An ability to apply marketing principles and practices in a policy making environment.

#### Assessment Procedures

Portfolio

BBA Outcomes Assessment Program

Exit examination

## Bachelor of Business Administration

### Marketing Option

In addition to the option courses listed below, the general education, BBA core (Pg. 39) and free electives must be completed. The option is composed of 27 hours of specialized courses in marketing.

|                                            |   |
|--------------------------------------------|---|
| MKT 350--Personal Selling                  | 3 |
| MKT 354--Consumer Behavior                 | 3 |
| MKT 453--Marketing Planning and Strategies | 3 |
| MKT 452--Marketing Research and Analysis   | 3 |
| MKT 454--Promotional Strategies            | 3 |
| MKT 469--International Marketing           | 3 |
| Approved marketing electives.              | 9 |
| (6 of the 9 hours must have a MKT prefix.) |   |

#### Approved electives for the Marketing Option

|                                                        |   |
|--------------------------------------------------------|---|
| ECON 403--Urban and Regional Economics                 | 3 |
| MNGT 310--Small Business Organization                  | 3 |
| MNGT 362--The Legal Environment and Business Practices | 3 |
| MNGT 411--Labor Relations                              | 3 |
| MNGT 463--Law and Ethics in Business                   | 3 |
| MKT 305--Purchasing                                    | 3 |
| MKT 351--Sales Management                              | 3 |
| MKT 451--Retail Management                             | 3 |
| MKT 455--Advertising                                   | 3 |
| MKT 476--Special Problems in Marketing                 | 3 |
| MKT 365--Services Marketing                            | 3 |
| MKT 465--Distribution Management                       | 3 |
| REAL 303--Real Estate Market Analysis                  | 3 |
| REAL 320--Real Estate Marketing                        | 3 |

## Real Estate

Faculty--L. Cowart, W. Grier, B. McCormick

### Competencies Required in the Program

Students completing the program will have:

1. An understanding of the role of real estate in the economic system.
2. An understanding of the role of the licensed real estate broker and sales person in the real estate transaction.
3. An understanding of the various laws impacting real estate transactions.
4. The ability to calculate and explain sales and lease financial transactions in real estate.

5. The ability to engage in appropriate practices of real estate valuation.
6. The ability to devise and implement a real estate property management and marketing plan.

#### Assessment Procedures

Exit examination

BBA Outcome Assessment Program

## Bachelor of Business Administration

### Real Estate Option

In addition to the option courses listed below, the general education, BBA core (Pg. 39) and free electives must be completed. The option is composed of 27 hours of specialized courses in real estate.

|                                             |    |
|---------------------------------------------|----|
| REAL 105--Principles of Real Estate         | 3  |
| REAL 310--Real Estate Law                   | 3  |
| REAL 320--Real Estate Marketing             | 3  |
| REAL 325--Appraisal of Residential Property | 3  |
| REAL 331--Real Estate Finance               | 3  |
| Approved real estate electives              | 12 |

#### Approved electives for the Real Estate Option

|                                                     |   |
|-----------------------------------------------------|---|
| REAL 200--Real and Personal Property Auctions       | 3 |
| REAL 303--Real Estate Market Analysis               | 3 |
| REAL 309--Real Estate Land Planning and Development | 3 |
| REAL 330--Real Estate Property Management           | 3 |
| REAL 335--Real Estate Investment                    | 3 |
| REAL 345--Appraisal of Income Property              | 3 |
| REAL 399--Selected Workshop Topics                  | 3 |
| REAL 400--Real Estate Brokerage                     | 3 |
| REAL 425--Advanced Property Appraisal               | 3 |
| REAL 476--Special Problems in Real Estate           | 3 |

### Minor in Business Administration (Real Estate)

(Not available to business administration majors)

#### Course Requirements

|                                             |   |
|---------------------------------------------|---|
| REAL 105--Principles of Real Estate         | 3 |
| REAL 310--Real Estate Law                   | 3 |
| REAL 320--Real Estate Marketing             | 3 |
| REAL 325--Appraisal of Residential Property | 3 |
| REAL 331--Real Estate Finance               | 3 |
| Approved Real Estate electives              | 9 |

24

## Associate of Applied Business

### General Education

|                                                       |    |
|-------------------------------------------------------|----|
| CIS 101--Computers for Learning                       | 3  |
| ECON 201--Principles of Macroeconomics                | 3  |
| ECON 202--Principles of Microeconomics                | 3  |
| ENG 100--Writing I                                    | 3  |
| ENG 200--Writing II (Paired with Area Studies Course) | 6  |
| FIN 264--Personal Finance                             | 3  |
| MATH 152--College Algebra                             | 3  |
| SPCH 108--Fundamentals of Speech Communication        | 3  |
| Free Electives                                        | 13 |

**Business Core**

|                                                           |    |
|-----------------------------------------------------------|----|
| ACCT 281--Principles of Accounting I                      | 3  |
| ACCT 282--Principles of Accounting II                     | 3  |
| BIS 321--Business Communications                          | 3  |
| FIN 252--Mathematics of Finance; (or higher)              | 3  |
| MNGT 261--The Legal Environment of Business Organizations | 3  |
| MNGT 301--Principles of Management                        | 3  |
| MKT 304--Marketing                                        | 3  |
| REAL 105--Principles of Real Estate                       | 3  |
|                                                           | 24 |
| Total                                                     | 64 |

**Option Requirements**

All students choosing this degree may complete a 12 credit hour Field of Specialization which is to be selected from the following fields of study list, and approved by the academic advisor:

Computer Information Systems  
Real Estate

**Associate of Applied Business****Options****Computer Information Systems**

|                                                 |    |
|-------------------------------------------------|----|
| CIS 200--Logic & Program Design                 | 3  |
| CIS 202--Structured Program BASIC               | 3  |
| CIS 205--Fundamentals of C/C++ Programming; or  |    |
| CIS 215--Structured Program COBOL I             | 3  |
| CIS 311--Introduction to Management Information | 3  |
|                                                 | 12 |

**Real Estate**

|                                             |    |
|---------------------------------------------|----|
| REAL 105--Principles of Real Estate         | 3  |
| REAL 310--Real Estate Law; or               |    |
| REAL 325--Appraisal of Residential Property | 3  |
| REAL 331--Real Estate Finance               | 3  |
| REAL Elective; or                           |    |
| REAL 345--Appraisal of Income Property      | 3  |
|                                             | 12 |

**Associate of Applied Business  
Business Information Systems****General Education Requirements**

|                                                |    |
|------------------------------------------------|----|
| CIS 101--Computers for Learning                | 3  |
| ECON 201--Principles of Macroeconomics         | 3  |
| ECON 202--Principles of Microeconomics         | 3  |
| ENG 100--Writing I                             | 3  |
| *ENG 200--Writing II                           | 3  |
| FIN 264--Personal Finance                      | 3  |
| MATH 131--General Mathematics; or higher       | 3  |
| Humanities                                     | 3  |
| MSU 101--Discovering University Life           | 1  |
| SPCH 108--Fundamentals of Speech Communication | 3  |
|                                                | 28 |

\*ENG 200 may be paired with ECON 201 or ECON 202.

**Business Core**

|                                       |   |
|---------------------------------------|---|
| ACCT 281--Principles of Accounting I  | 3 |
| ACCT 282--Principles of Accounting II | 3 |

|                                                       |    |
|-------------------------------------------------------|----|
| BIS 321--Business Communications                      | 3  |
| CIS 211--Microeconomics                               | 3  |
| FIN 254--Mathematics of Finance                       | 3  |
| MKT 304--Marketing                                    | 3  |
| MNGT 261--Legal Environment of Business Organizations | 3  |
| MNGT 301--Principles of Management                    | 3  |
|                                                       | 24 |

**Business Information Systems Core Courses**

Based upon their career interests, students may choose one of the following specialty areas to complete the 12-hour BIS requirement for the AAB:

**Administrative Support Management**

(Choose four of the following courses:)

|                                                          |   |
|----------------------------------------------------------|---|
| BIS 115--Word Processing Applications                    | 3 |
| BIS 234--Specialized Office Procedures                   | 3 |
| BIS 240--Information Resources Management                | 3 |
| BIS 320--Information Processing Applications             | 3 |
| BIS 398--Practicum in Information Systems                | 3 |
| *CIS 311--Management Information Systems                 | 3 |
| *CMAP 166--Desktop Publishing and Publication Techniques | 3 |

**Administrative Legal Support**

(Choose four of the following courses:)

|                                              |   |
|----------------------------------------------|---|
| BIS 115--Word Processing Applications        | 3 |
| BIS 234--Specialized Office Procedures       | 3 |
| BIS 320--Information Processing Applications | 3 |
| BIS 398--Practicum in Information Systems    | 3 |
| *GOVT 141--U. S. Government                  | 3 |
| *PLS 210--Introduction to Paralegalism       | 3 |

**Administrative Medical Support**

(Choose at least 12 hours from the following courses:)

|                                              |       |
|----------------------------------------------|-------|
| BIS 115--Word Processing Applications        | 3     |
| BIS 234--Specialized Office Procedures       | 3     |
| BIS 320--Information Processing Applications | 3     |
| BIS 398--Practicum in Information Systems    | 3     |
| *HLTH 160--Introduction to Health            | 3     |
| *NAHS 202--Medical Terminology               | 2     |
| Total                                        | 64-66 |

**\*Required courses**

Students who complete the AAB in the Business Information Systems Option are prepared for entry-level positions in administrative support, records administration, office information systems, and related areas.

## College of Education and Behavioral Sciences

Harold Harty (Dean)  
(606) 783-2040  
100 Ginger Hall

Department of Elementary, Reading and Special Education  
Department of Leadership and Secondary Education  
Department of Health, Physical Education and Recreation  
Department of Military Science  
Department of Psychology  
Department of Sociology, Social Work, and Criminology



# College of Education and Behavioral Sciences

## Programs

Department of  
Elementary, Reading, and  
Special Education

AB - Elementary Education  
P-5  
AB - Elementary Education  
5-9  
AB - Learning and Behavior  
Disorders P-12  
AB - Moderate and Severe  
Disability - P-12

Department of  
Psychology

AB - Psychology

Office of Student Teaching  
Clinical Experience

Department of Health,  
Physical Education, and  
Recreation

AB - Physical Education P-12  
AB - Physical Education -  
Exercise Science  
AB - Health P-12  
AB - Health Promotions  
AB - Park and Recreation  
Management

Department of Leadership  
and Secondary Education

NOTE: Students must consult  
with an advisor in the  
academic area in which  
certification is sought.

Department of Military Science

Minor - Military Science

Department of Sociology,  
Social Work, and Criminology

AB - Sociology  
AB - Sociology (Criminology)  
BSW - Social Work

Clearing House for  
School Services

## Teacher Education Program and Professional Experiences

### REGULATIONS ARE SUBJECT TO CHANGE BY THE KENTUCKY DEPARTMENT OF EDUCATION AND/OR THE UNIVERSITY TEACHER EDUCATION COMMITTEE

Teacher education is a field-based program that provides extensive laboratory experiences with children in area schools. Field experiences assist the University student in understanding the function of public school teaching and practical experiences in methodology. Each professional education course contains a required clinical and field experience component. Placements are made in cooperation with instructors and the Teacher Education Program Coordinator.

All education majors are required to complete a minimum of 150 hours of clinical and field experiences prior to student teaching. One-half of these shall be devoted to experiences in the public schools (field experiences).

Students who complete bachelor's degree programs leading to teacher certification are recommended for a Kentucky certificate of eligibility to enter the Kentucky Teacher Internship Program in their first year of teaching, provided they meet certification requirements in effect at the time of graduation. Students must also successfully complete the National Teacher Exam (NTE). Programs may change due to changes in certification requirements. Since certification requirements change, students should check with their advisors to be certain they meet requirements prior to completing their programs.

## Teacher Education Program

Students seeking teacher certification must apply for and be admitted to the teacher education program. Students will be required to meet admission standards concurrent with their application to teacher education. They must select areas of concentration and/or major(s) that are certifiable.

Students seeking either elementary, middle level or secondary certification must demonstrate knowledge and expertise in the use of computers either through the Credit by Examination Program (CLEP), or by successfully completing a computer class or approved workshop.

## Teacher Education Program Policies Handbook

The Teacher Education Program Policies Handbook is revised annually. This booklet is purchased in the University Bookstore. The policies set forth in this booklet must be complied with at the time of application.

## Elementary, Middle Grades and Special Education

Students in elementary and middle grades education must select an area of concentration in either early elementary (teaching certification in grades P-5) or middle grades (teaching certification in grades 5-9). Students in special education must select an area of concentration in learning and behavior disorders (LBD teaching certification); learning and behavior disorders and early elementary (LBD and P-5 teaching certification); learning and behavior disorders and middle grades (LBD and 5-9 teaching certification); moderate and severe disability (MSD teaching certification); moderate and severe disability and early elementary (MSD and p-5 teaching certification); or moderate and severe disability and middle grades (MSD and 5-9 teaching certification).

The areas of concentration in special education provide teaching certification in LBD and MSD for grades primary through grade twelve (P-12). Since special education teachers may receive dual certification, they may teach in either special education classes or the regular classroom.

Students may select an approved major which will require additional classes. There is a non-teaching major and a non-teaching minor in special education.

## Secondary Education

Students seeking initial secondary certification are required to complete a bachelor's degree from the following teaching preparation programs: English, mathematics, social studies, biological science, physical science, agriculture, business and marketing education, human sciences, industrial education, art, Spanish, French, health, physical education, or music.

## Admission to Teacher Education

Any student making application to the teacher education program (TEP) must first be admitted to the University. The student should apply for admission to the teacher education program. (IET majors should apply while enrolled in VOC 207 and/or Human Growth and Development.) Failure to apply at the sophomore level may result in an extended program.

## Admission to TEP

Students making application to the teacher education program (TEP) must submit a portfolio to the Teacher Education Program Coordinator. The portfolio, the formal application to the TEP, is to include the following:

1. an up-to-date official transcript.
2. an up-to-date official degree audit checksheet.
3. \*speech and hearing evaluation.
4. a resume.
5. \*three (3) recommendations.

6. a one page, double-spaced typed statement of the student's philosophy of education including the relationship of education to society.
7. a half-page, double-spaced typed description of relevant experiences the student has had in working with children or youth. Supporting material may be attached.
8. proof of ACT scores.
9. proof of NTE/PRAXIS scores.

\*These items cannot be older than one year at the time of the student's application to the TEP.

## Transfer Students

Transfer students need coursework or portfolio evidence of pre-professional knowledge. The portfolio will be reviewed at the time of transfer.

## NTE/PRAXIS

Students applying for admission to the teacher education program (TEP) must satisfactorily pass the Communications Skills and General Knowledge portions of the NTE.

Test dates for the NTE/PRAXIS are available from the Testing Center, 501 Ginger Hall. All portions of the exam must be satisfactorily completed (passed) before you can teach in the state of Kentucky.

## Writing Sample

All students making application for admission to the teacher education program (TEP) must complete a scheduled writing sample prior to interviewing for admission to the program. The writing sample will be administered two (2) times during the academic year, once during the Fall Semester and once during the Spring Semester. The time(s) and location for the writing sample will be posted at various places on campus. **No student may interview for admission to the program until the writing sample is completed.** Students who have questions regarding the time and/or dates for the writing sample may obtain information from the TEP Office, 801 Ginger Hall. Writing samples are scored by a group of state trained people from MSU. After the writing sample has been scored, it will become a part of the portfolio for admission to TEP.

Students will need to have the following in order to do the writing sample:

1. A blue or black (ink) pen or a pencil
2. A pictured ID
3. Social Security Number (card not necessary, just the number).

## Criteria for Admission

1. The applicant must have completed forty-five (45) semester hours if the applicant is a secondary major; thirty (30) semester hours if in the

- elementary, middle school and/or special education program of study.
2. An up-to-date official copy of the student's transcript with a minimum grade point average (GPA) of 2.500 on a 4.0 scale. All college courses attempted must be a part of the applicant's portfolio. All transfer courses, as well as MSU credit, are used in calculating the GPA.
3. Three recommendations stating the applicant's qualifications must accompany the portfolio. (Must be written within the past calendar year.)
4. Successful completion of speech and hearing screening. (Must be completed within the past calendar year.)
5. The student must have a minimum ACT score of seventeen (17) with minimum subtest scores of ten (10).
6. Successful completion of prerequisite courses (EDF 207, EDF 211, PSY 154, and SPCH 108) and prescribed clinical and field experiences.
7. Demonstrated proficiency in oral and written communication. (Successful completion of ENG 100 and ENG 200. (Minimum grade of "C" in each course.)
8. Demonstrate moral, ethical, and social behavior commensurate with the standards of the school and community at large.
9. Successful completion of an interview with the College Admissions Interview Committee.
10. Transfer students who were recently admitted to a teacher education program at another Kentucky institution may provide evidence of their admission in lieu of the interview provided they are applying for admission to the same program or major. Transfer students must meet the requirements listed above.
11. All students applying to the TEP must sign a declaration affirming: (1) a commitment to upholding the Professional Code of Ethics for Kentucky, (2) knowledge of TEP Handbook, (3) requirements for certification, and (4) no felony convictions.

Once these items are checked off by the Teacher Education Program Coordinator, students are required to go before the TEP Admission Interview Committee. This committee will make a recommendation to the Teacher Education Committee as to the TEP admission status.

Transfer students and graduate students seeking initial certification must apply immediately for admission to the program and meet criteria outlined above. Graduate students seeking initial certification must be admitted to the Teacher Education Program.

Transfer of appropriate education courses from another institution is contingent upon successful completion of required field experiences in the public schools and clinical experiences on campus. Documentation is required. Substitution of education

courses shall be approved by the appropriate department in the College of Education and Behavioral Sciences. No transfer grades below "C" are accepted in early elementary, middle grades or special education programs.

Education courses completed more than five years prior to readmission or initial admission in a provisional certification program shall be reviewed for program needs or deficiencies. The review shall be conducted by the appropriate department in the College of Education and Behavioral Sciences.

Retention in the teacher education program is dependent upon students maintaining admission requirements. Any student denied admission to, or suspended from, the teacher education program may reapply for admission once each semester.

### Courses for Which Admission to the Teacher Education Program is a Prerequisite

AGR 470--Methods of Instruction  
 AGR 478--Student Teaching Practicum in Agriculture  
 ART 300--Elementary Materials and Methods  
 ART 321--Materials and Methods of Secondary Art  
 BIS 499C--Methods of Teaching Business and Marketing Education  
 BIOL 485--Biology Teaching Methods  
 EDEC 529--Practicum in Early Childhood Education  
 EDEE 321--Teaching Math in Early Elementary Grades  
 EDEE 322--Teaching Social Studies in Early Elementary Grades  
 EDEE 323--Language Arts for Early Elementary  
 EDEE 331--Reading for Early Elementary Teachers  
 EDEE 423--Supervised Student Teaching Practicum (P-5)  
 EDEM 426--Pre-student Teaching Seminar  
 EDF 311--Learning Theories for Teachers  
 EDMG 332--Reading Strategies for the Middle Grade Teacher  
 EDMG 341--Teaching Mathematics in Middle Grades  
 EDMG 342--Teaching Social Studies in Middle Grades  
 EDMG 343--Language Arts for Middle Grades  
 EDMG 446--Supervised Student Teaching Practicum (5-9)  
 EDSE 312--Teaching Skills and Media  
 EDSE 333--Field Experiences in Secondary Classrooms  
 EDSE 416--Supervised Student Teaching Practicum  
 EDSE 499C--Teacher in Today's Schools  
 EDSP 332--Teaching the Exceptional Student  
 EDSP 435--Supervised Student Teaching Practicum (LBD)  
 EDSP 437--Supervised Student Teaching Practicum (MSD)  
 EDUC 576--Reading in the Secondary School  
 EDUC 582--Discipline and Classroom Management  
 ENG 500--Studies in English for Teachers  
 FRN 405--Linguistics and Language Teaching  
 GEO 450--The Teaching of Social Studies  
 HIS 450--The Teaching of Social Studies  
 HLTH 304--Health in the Secondary School  
 HS 470--Methods of Instruction  
 HS 478--Student Teaching Practicum  
 HS 573--Curriculum Development in Home Economics  
 IECE 425--Supervised Student Teaching  
 IECE 457--Professional Assessment  
 IET 392--Instructional Technology  
 IET 393--Methods in Vocational Industrial Education  
 IET 470--Methods in Industrial Education --  
     Orientation and Exploration Levels  
 IET 478--Supervised Teaching Practicum in Industrial  
     Education - Orientation and Exploration Levels  
 IET 496--Organization and Management of the Laboratory  
 MATH 373--Principles and Techniques of Mathematics  
 MUSE 325--Materials and Methods for Elementary Grades

MUSE 375--Vocal Materials and Methods  
 MUSE 376--Instrumental Materials and Methods  
 PHED 300--Physical Education in the Elementary School  
 PHED 303--Physical Education in the Secondary School  
 PHED 360--Health and Physical Education in the Middle School  
 PHED 430--The Psychosocial Dimensions of Sport and Physical Activity  
 SCI 490--Science for the Elementary Teacher  
 SCI 591--Science for the Middle School Teacher  
 SCI 592--Science for the Secondary Teacher  
 SPA 405--Linguistics and Language Teaching

### Admission Requirements for the Professional Semester

Application for student teaching must be filed within the first two weeks of the semester immediately preceding the semester in which the student expects to enroll in the professional semester. Student teaching application forms can be obtained from Director of Student Teaching, Room 801, Ginger Hall. To be eligible for the professional semester, the student must have completed the following requirements:

1. Admission to and good standing in teacher education program.
2. Completion of prerequisite courses in sequence of professional education. (Secondary certification program--EDF 207, EDF 211, EDF 311, EDSE 312, and EDSP 332 and required methods or field experience courses. AGR--VOC 207, EDF 211, EDSP 332, AGR 388, AGR 392, and AGR 470. IET--VOC 207, EDF 211, EDSP 332, IET 392, and IET 470. HS--VOC 207, EDF 211, EDF 311, EDSP 332, EDMG 332, EDEM 330, HS 388, HS 392, and HS 470. P-5 certification program--EDF 207 and EDF 211, EDEL 301, EDEE 305, EDEE 321, EDEE 322, EDEE 323, EDEE 327, EDEE 331, EDEM 330, EDUC 582, SCI 490, EDSP 230. Middle grades certification program--EDF 207 and EDF 211, EDEL 301, EDEM 330, EDMG 306, EDMG 332, EDMG 341, EDMG 342, EDMG 343, EDMG 347, EDUC 582, EDSP 230, and SCI 591. LBD and MSD certification program--elementary education requirements plus EDSP 350, EDSP 360, EDSP 537 or EDSP 547, EDSP 551, EDSP 553, EDSP 555, and EDSP 557.) Interdisciplinary Early Childhood Education--EDF 207, EDF 211, IECE 301, IECE 345, IECE 410, IECE 411, and IECE 412.
3. Successfully completed field experiences associated with courses in the professional education sequence (e.g. EDSE 333). Transfer or substitution of required education courses is dependent upon applicant completing appropriate pre-laboratory experiences. Documentation is required.
4. Present minimum grade-point average of 2.50 on a 4.0 scale on all courses attempted. (All transfer courses are included in calculating the grade-point average.)
5. Present minimum grade-point standing of 2.5 on 4.0 scale on all course work completed in area of concentration, major(s) and academic components.
6. Have completed a minimum of 90 semester hours.

7. Present official copy of the degree audit checklist depicting approved major for teacher certification.
8. Completed 75 percent of course requirements in area of concentration or major teaching field and academic components (to include required methods courses.)
9. Have a minimum of one semester residence (12 hours) at Morehead State University.

Courses for which application must be scheduled with the director of student teaching one semester in advance include:

- AGR 478--Student Teaching Practicum in Agriculture
- EDDE 423--Supervised Student Teaching Practicum (P-5)
- EDSE 416--Supervised Student Teaching Practicum (Secondary Schools)
- EDSP 435--Supervised Student Teaching Practicum (LBD)
- EDSP 437--Supervised Student Teaching Practicum (MSD)
- EDMG 446--Supervised Student Teaching (5-9 Middle School)
- HS 478--Supervised Student Teaching Practicum (Human Sciences)
- IECE 425--Supervised Student Teaching Practicum (Interdisciplinary Early Childhood Education)
- IET 478--Supervised Student Teaching Practicum (Industrial (Education - Orientation and Exploration Levels)

## Recommendation for Certification

Regulations of the Kentucky Department of Education stipulate that the applicant for a teacher's certificate (Letter of Eligibility) must be recommended by the institution offering the teacher preparation program. Recommendation for certificate of eligibility (Letter of Eligibility) will be limited to those students completing their professional semester at Morehead State University. Since certification (Letter of Eligibility) regulations may change, students who wish to have an institutional recommendation for certification (Letter of Eligibility) must meet all certification (Letter of Eligibility) requirements in effect at the time of their application for certification (Letter of Eligibility).

Application for the appropriate certificate (Letter of Eligibility) should be completed early in the semester prior to graduation. Application forms may be obtained from the teacher certification officer. The certification officer is located in 801 Ginger Hall.

All teacher applicants for initial certification (Letter of Eligibility) in Kentucky shall complete the National Teachers Examinations for communication skill, general knowledge, professional knowledge, and the appropriate specialty test(s), meeting the standards set by the Kentucky State Department of Education (704 KAR 20:305).

## Secondary Education

The primary role of secondary education is to serve various departments of the University by offering a professional education curriculum leading to certification (Letter of Eligibility) of teachers for secondary schools. Students wishing to pursue a teaching certificate in Secondary Education will be assigned an advisor in their

respective major content area. Students need to be aware that general education requirements may differ by content area. For specific program requirements, students need to obtain an official checklist from their advisor or the content area department chair (e.g., Department of English, Foreign Languages, and Philosophy for inquiries about obtaining a secondary teaching certificate in English.) An *unofficial* checklist and general information about the Secondary Education Teacher Education Program may be obtained in Ginger Hall 801 at the Clearinghouse for School Services or the Teacher Education Services Office. Another source of information, as they go on-line, will be departmental Web pages that will contain copies of departmental checklists for downloading and printing.

## Requirements for Certification in Secondary Education

|                                                     | Sem. Hrs. |
|-----------------------------------------------------|-----------|
| <b>Professional Education Courses</b>               | <b>28</b> |
| EDF 207--Foundations of Education                   | 3         |
| EDF 211--Human Growth and Development               | 3         |
| EDF 311--Learning Theories in the Classroom         | 3         |
| EDSE 312--Teaching Skills and Media                 | 3         |
| EDSP 332--Teaching the Exceptional Student          | 2         |
| EDSE 333--Field Experiences in Secondary Classrooms | 2         |
| (may be required for some majors)                   |           |
| <b>Professional Semester</b>                        | <b>14</b> |
| EDSE 499C--Teacher in Today's Schools               | 2         |
| EDSE 416--Student Teaching                          | 12        |

Secondary education students admitted to the teacher education program after August 1, 1998, will be required to demonstrate computer expertise prior to graduation. They may demonstrate this expertise by completing at least one of the following:

1. CIS 101--Computers for Learning; or  
EDUC 222--Computing Tools for Educators
2. CLEP Education (available in the University Testing Center)
3. A Computer workshop taken for college credit.

## Department of Elementary, Reading, and Special Education

Cathy Barlow, Chair  
(606) 783-2598  
301 Ginger Hall

### Elementary Education

**Faculty**--S. Blair, D. Cox, R. Egan, K. Freeland, C. Grindstaff,  
K. Lafferty, C. Larson, P. McGhee, T. Miller, F. Newsome, P. Oakes,  
D. Peterson, M. Pollock, D. Price, E. Schack, M. Schack, M. Willis,  
W. Willis, A. Young

#### Competencies Required in the Program

*Students graduating from the P-5 program should:*

1. Demonstrate a knowledge of growth and development of children.
2. Be able to assess developmental and instructional needs of children.
3. Organize an effective classroom environment which will maximize learning.
4. Effectively manage classroom behavior.
5. Develop skills in planning and implementing appropriate instructional programs for children.
6. Demonstrate appropriate interaction and communication with children, parents, and other adults working in schools.
7. Describe information about options for school and home cooperation.
8. Identify appropriate professional development activities.
9. Demonstrate a knowledge of the philosophical, historical, sociological, and psychological basis of early elementary education.
10. Demonstrate a knowledge of the provisions of the Kentucky Education Reform Act.
11. Perform on-demand tasks demonstrating knowledge of New Teacher Standards.

*Student graduating from 5-9 program should:*

1. Demonstrate a knowledge of the growth and development of middle grade students.
2. Describe the historical, philosophical, and psychological basis of middle grade and middle school programs.
3. Demonstrate skills in planning and implementation of instruction in several different organizational patterns.
4. Accurately assess the instruction needs of students.

5. Develop an effective system for managing the classroom.
6. Relate planning for teaching to the needs of middle grade students.
7. Identify school and community resources that could be used in instruction.
8. Plan for communication with students, parents, and other school personnel.
9. Establish cooperative relationships with other school personnel and skills in working in teams.
10. Develop a breadth of knowledge.
11. Demonstrate a knowledge of the provisions of the Kentucky Education Reform Act.

#### Assessment Procedures

*Grade point average of 2.50*

*ACT scores*

*Speech and hearing screening*

*Interview*

*Field Experience of 150 hours*

*NTE/PRAXIS Core Battery Communication Skills Test*

*NTE/PRAXIS Core Battery General Knowledge Test*

*Writing sample*

*Portfolio*

Requirements for certification in elementary education have been changed by the Kentucky State Department of Education. The revised requirements provide for teacher certification in grades P-5 or 5-9. All students in the University in elementary education are required to follow the revised certification patterns.

### Bachelor of Arts

#### Early Childhood Endorsement

The objective of the program in Early Childhood Education is to provide a kindergarten endorsement for teachers holding elementary certification, grades 1-8. Undergraduate students admitted to the University should pursue the P-5 program if they seek certification to teach kindergarten.

#### Certification in Kindergarten Education

In addition to meeting all requirements for elementary certification:

|                                                                    | Sem. Hrs. |
|--------------------------------------------------------------------|-----------|
| EDEC 527--The Pre-School Child .....                               | 3         |
| EDEC 528--Activities and Materials in Early Childhood Education .. | 3         |
| EDEC 529--Practicum in Early Childhood Education .....             | 4         |

Candidates for the above program must have been admitted by January 1, 1998, and must complete by January 1, 2000.

Please note the following information regarding K-4 Area of Concentration, LBD/K-4 Area of Concentration, LBD/5-8 Area of Concentration, MSD/K-4

## Area of Concentration and MSD/5-8 Area of Concentration:

Due to changes mandated by the Kentucky Department of Education, students pursuing any of the above programs must have been admitted to the Teacher Education Program before January 1, 1998, and must complete the program before January 1, 2000. For criteria for completion of the above programs, please refer to the Undergraduate Catalog in effect at the time of admission to the Teacher Education Program.

## Area of Concentration

### Early Elementary (P-5)

|                                                                             |           |
|-----------------------------------------------------------------------------|-----------|
| <b>Education</b>                                                            | <b>35</b> |
| EDF 207--Foundations of Education                                           | 3         |
| EDF 211--Human Growth and Development                                       | 3         |
| EDSP 230--Education of Exceptional Children                                 | 3         |
| EDEE 305--Learning Theories and Practices in Early Elementary               | 3         |
| EDEL 301--Media Strategies                                                  | 2         |
| EDEE 321--Number Concepts and Mathematics                                   | 3         |
| EDEE 322--Teaching Social Studies in Early Elementary Grades                | 3         |
| EDEE 323--Language Arts for Early Elementary                                | 3         |
| EDEM 330--Foundations of Reading                                            | 3         |
| EDEE 331--Reading for Early Elementary Teachers                             | 3         |
| EDUC 582--Discipline and Classroom Management                               | 3         |
| SCI 490--Science for Elementary Teachers                                    | 3         |
| <b>Integrated Capstone Component</b>                                        | <b>15</b> |
| EDEE 423--Supervised Student Teaching Practicum                             | 13        |
| EDEM 426--Pre-student Teaching Seminar                                      | 2         |
| <b>Related Studies</b>                                                      | <b>18</b> |
| ART 121--School Art                                                         | 3         |
| EDEE 327--Literature and Materials for Young Readers                        | 3         |
| HLTH 301--Health, Safety and Nutrition for Early Elementary                 | 2         |
| MATH 231--Math for the Elementary Teacher I                                 | 3         |
| MUST 100--Rudiments of Music                                                | 2         |
| MUSE 221--Music for Elementary Teachers                                     | 2         |
| PHED 311--Movement Exploration                                              | 3         |
| <b>General Education</b>                                                    | <b>45</b> |
| ENG 100--Writing I                                                          | 3         |
| ENG 200--Writing II                                                         | 3         |
| SPCH 108--Fundamentals of Speech Communication                              | 3         |
| MATH 131--Problem Solving; or other approved math reasoning course          | 3         |
| EDUC 222--Computing Tools for Educators; or CIS 101--Computers for Learning | 3         |
| <b>Humanities Elective:</b>                                                 |           |
| ART 263--Art History I;                                                     |           |
| ART 264--Art History II;                                                    |           |
| ART 265--Art History III;                                                   |           |
| CMEM 210--Media Literacy;                                                   |           |
| ENG 205--Language: Culture and Mind;                                        |           |
| ENG 220--Topics in Literature;                                              |           |
| FNA 160--Understanding the Visual Arts;                                     |           |
| MUSH 361--History of Music I;                                               |           |
| MUSH 362--History of Music II;                                              |           |
| GOVT 210--Introduction to Political Theory;                                 |           |
| HIS 201--Global Studies;                                                    |           |
| HIS 202--American Studies;                                                  |           |
| PHIL 203--Social Ethics;                                                    |           |
| PHIL 306--Introduction to Logic;                                            |           |
| SPCH 350--Communication: Culture and Diversity;                             |           |
| SPCH 390--Conflict and Communication;                                       |           |
| THEA 110--Introduction to Theatre; or                                       |           |
| A foreign language course                                                   | 3         |
| HIS 201--Global Studies; or                                                 |           |

|                                                      |   |
|------------------------------------------------------|---|
| HIS 202--American Studies                            | 3 |
| PHIL 200--Introduction to Philosophy                 | 3 |
| BIOL 110--Biological Science for Elementary Teachers | 3 |
| SCI 109--Physical Science for Elementary Teachers    | 3 |
| PSY 154--Introduction to Psychology                  | 3 |
| MATH 232--Math for the Elementary Teacher II         | 3 |
| GOVT 141--United States Government; or               |   |
| *GOVT 362--Current World Problems                    | 3 |
| GEO 100--Fundamentals of Geography ; or              |   |
| *SOC 305--Cultural Anthropology                      | 3 |
| HLTH 151--Wellness: Theory in Action; or             |   |
| HS 101--Nutrition and Well Being                     | 3 |
| *One non-western culture course must be completed    |   |
| GOVT 362--Current World Problems; or                 |   |
| SOC 305--Cultural Anthropology                       |   |

\*Meet the non-western culture course requirement.

### Academic component 21-23

The academic component must be chosen from: English, Art, Music, Fine Arts-Multidisciplinary, Speech-Theatre, French, Spanish, Mathematics, Science or Social Studies. (See advisor for a list of specific courses in each component.)

## Area of Concentration

### Middle Grades (5-9)

|                                                                             |           |
|-----------------------------------------------------------------------------|-----------|
| <b>Education</b>                                                            | <b>35</b> |
| EDF 207--Foundations of Education                                           | 3         |
| EDF 211--Human Growth and Development                                       | 3         |
| EDSP 230--Education of Exceptional Children                                 | 3         |
| EDEL 301--Media Strategies                                                  | 2         |
| EDMG 306--Development and Learning in Middle Grades                         | 3         |
| EDEM 330--Foundations of Reading                                            | 3         |
| EDMG 332--Reading Strategies for Middle Grade Teachers                      | 3         |
| EDMG 341--Teaching Mathematics in Middle Grades                             | 3         |
| EDMG 342--Teaching Social Studies in Middle Grades                          | 3         |
| EDMG 343--Language Arts for Middle Grades                                   | 3         |
| EDMG 347--Literature and Materials for Preadolescent                        | 3         |
| EDUC 582--Discipline and Classroom Management                               | 3         |
| <b>Integrated Capstone Component</b>                                        | <b>15</b> |
| EDMG 446--Supervised Student Teaching Practicum                             | 13        |
| EDEM 426--Pre-student Teaching Seminar                                      | 2         |
| <b>Related Studies</b>                                                      | <b>6</b>  |
| MATH 231--Math for Elementary Teachers I                                    | 3         |
| PHED 360--Health and Physical Education in the Middle School                | 3         |
| <b>General Education</b>                                                    | <b>45</b> |
| ENG 100--Writing I                                                          | 3         |
| ENG 200--Writing II                                                         | 3         |
| SPCH 108--Fundamentals of Speech Communication                              | 3         |
| MATH 131--Problem Solving; or other approved math reasoning course          | 3         |
| EDUC 222--Computing Tools for Educators; or CIS 101--Computers for Learning | 3         |
| <b>Humanities Elective:</b>                                                 |           |
| ART 263--Art History I;                                                     |           |
| ART 264--Art History II;                                                    |           |
| ART 265--Art History III;                                                   |           |
| CMEM 210--Media Literacy;                                                   |           |
| ENG 205--Language: Culture and Mind;                                        |           |
| ENG 220--Topics in Literature;                                              |           |
| ENG 293--Introduction to Creative Writing;                                  |           |
| FNA 160--Understanding the Visual Arts;                                     |           |
| MUSH 361--History of Music I;                                               |           |
| MUSH 362--History of Music II;                                              |           |
| GOVT 210--Introduction to Political Theory;                                 |           |
| SPCH 350--Communication, Culture and Diversity;                             |           |
| SPCH 390--Conflict and Communication;                                       |           |
| THEA 110--Introduction to Theatre; or                                       |           |
| A foreign language course                                                   | 3         |

|                                                      |   |
|------------------------------------------------------|---|
| HIS 201--Global Studies; or                          |   |
| HIS 202--American Studies                            | 3 |
| PHIL 200--Introduction to Philosophy                 | 3 |
| BIOL 110--Biological Science for Elementary Teachers | 3 |
| SCI 109--Physical Science for Elementary Teachers    | 3 |
| MATH 232--Math for the Elementary Teachers II        | 3 |
| PSY 154--Introduction to Psychology                  | 3 |
| GOVT 141--United States Government; or               |   |
| *GOVT 362--Current World Problems                    | 3 |
| GEO 100--Fundamentals of Geography; or               |   |
| *SOC 305--Cultural Anthropology                      | 3 |
| HLTH 151--Wellness: Theory in Action; or             |   |
| HS 101--Nutrition and Well Being                     | 3 |
| *One non-western culture course--                    |   |
| GOVT 362--Current World Problems; or                 |   |
| SOC 305--Cultural Anthropology                       |   |

\*Meets non-western culture course requirement.

#### Academic Components

Each student must select two academic components requiring a minimum of 24 semester hours each. The two components must be chosen from English, science, social studies, mathematics, and LBD. Students selecting special education as an academic component must complete the total program for LBD which will exceed 24 hours. (Students should see their advisor for a list of specific courses in each component.)

## Special Education

**Faculty**--C. Barlow (Chair), D. Grace, J. Knoll, A. Moriarty, B. Neimeyer, S. Obi

#### Competencies Required in the Program

Students graduating from the LBD & MSD program should possess:

1. An understanding of the varied nature of exceptional children, and of the range of special programs and resources available in the public school and the community.
2. Knowledge of, and skills in the development of alternative individualized curricula, and in the effective teaching of academic skills, including oral and written language, and the content areas.
3. An understanding of the principles and techniques of behavior management, and the ability to implement those techniques in the public school classroom.
4. An ability to measure the effectiveness of ongoing special education programs, and to critically evaluate the utility of published materials.
5. An understanding of the roles and responsibilities of special education teachers in various education program settings, including due process for the identification, placement and continuing evaluation of students in special instructional programs.
6. Knowledge of the curriculum in various areas of child development at the preschool level, together with an understanding of the characteristics of

handicapped preschool children and the program modifications that they require.

7. An understanding of career education as an integral part of the P-12 curriculum including knowledge of teaching methods, materials, and outside agencies typically involved in vocational training and independent living.
8. An understanding of fundamental principles of education assessment, and the ability to administer a wide range of formal and informal academic, communication and behavioral assessment instruments.
9. The ability to interpret formal and informal assessment data in the process of forming conclusions about student needs, implementing and evaluating individualized education programs, and in designing appropriate curricula for children with learning, behavioral, or developmental needs.
10. An understanding of KERA and the full inclusion of special education students with non-handicapped students in regular classrooms.

#### Assessment Procedures

Grade point average of 2.5

ACT scores

Speech and hearing screening

Interview

Field Experience of 150 hours

NTE/PRAXIS Core Battery General Knowledge Test

NTE/PRAXIS Core Battery Communication Skills Test

Writing Sample

Portfolio

## Bachelor of Arts

### Learning and Behavior Disorders

This program provides certification for teaching children who have learning disabilities, behavior disorders, orthopedic handicaps, or who are mildly mentally disabled.

See "Teacher Education Program" and "Professional Experiences" requirements.

This program prepares individuals for professional certification for teaching students with learning and behavior disorders in grades P-12. Students have the following three options for obtaining LBD certification:

1. single certification to teach students with learning and behavior disorders at any grade level (P-12).
2. LBD certification **and** certification to teach in the early elementary grades (P-5).
3. LBD certification **and** certification to teach in the middle grades (5-9).

## 1. Area of Concentration in LBD

|                                                                                           |           |
|-------------------------------------------------------------------------------------------|-----------|
| <b>Special Education</b>                                                                  | <b>27</b> |
| EDSP 230--Education of Exceptional Children                                               | 3         |
| EDSP 320--Introduction to Corrective Speech                                               | 3         |
| EDSP 350--Characteristics of Individuals with Mental Retardation and Orthopedic Handicaps | 3         |
| EDSP 360--Characteristics of Learning and Behavior Disorders                              | 3         |
| EDSP 537--Educational Assessments of Exceptional Children                                 | 3         |
| EDSP 551--Curriculum for Pre-School Exceptional Children                                  | 3         |
| EDSP 553--Language Arts for Exceptional Children                                          | 3         |
| EDSP 555--Prescriptive Teaching for Children with Learning and Behavior Problems          | 3         |
| EDSP 557--Content Areas and Career Preparation for Exceptional Students                   | 3         |
| <b>Education</b>                                                                          | <b>32</b> |
| EDF 207--Foundations of Education                                                         | 3         |
| EDF 211--Human Growth and Development                                                     | 3         |
| EDEL 301--Media Strategies                                                                | 2         |
| EDEE 305--Learning Theories and Practices in Early Elementary                             | 3         |
| EDEE 321--Number Concepts and Mathematics                                                 | 3         |
| EDEE 322--Teaching Social Studies in Early Elementary Grades                              | 3         |
| EDEE 323--Language Arts for Early Elementary                                              | 3         |
| EDEM 330--Foundations of Reading                                                          | 3         |
| EDEE 331--Reading for Early Elementary Teachers                                           | 3         |
| EDUC 582--Discipline and Classroom Management                                             | 3         |
| SCI 490--Science for the Elementary Teacher                                               | 3         |
| <b>Integrated Capstone Component</b>                                                      | <b>15</b> |
| EDSP 435--Student Teaching - LBD                                                          | 13        |
| EDEM 426--Pre-student Teaching Seminar                                                    | 2         |
| <b>Related Studies</b>                                                                    | <b>18</b> |
| ART 121--School Art I                                                                     | 3         |
| EDEE 327--Literature and Materials for Young Readers                                      | 3         |
| HLTH 301--Health, Safety and Nutrition for Early Elementary                               | 2         |
| MATH 231--Mathematics for the Early Elementary Teacher I                                  | 3         |
| MUST 100--Rudiments of Music                                                              | 2         |
| MUSE 221--Music for Elementary Teachers                                                   | 2         |
| PHED 311--Movement Exploration                                                            | 3         |
| <b>General education</b>                                                                  | <b>45</b> |
| ENG 100--Writing I                                                                        | 3         |
| ENG 200--Writing II                                                                       | 3         |
| SPCH 108--Fundamentals of Speech Communication                                            | 3         |
| MATH 131--Problem Solving; or other approved math reasoning course                        | 3         |
| EDUC 222--Computing Tools for Educators; or CIS 101--Computers for Learning               | 3         |
| <b>Humanities Elective:</b>                                                               |           |
| ART 263--Art History I;                                                                   |           |
| ART 264--Art History II;                                                                  |           |
| ART 265--Art History III;                                                                 |           |
| CMEM 305--Media Literacy;                                                                 |           |
| ENG 205--Language: Culture and Mind;                                                      |           |
| ENG 220--Topics in Literature;                                                            |           |
| ENG 293--Introduction to Creative Writing;                                                |           |
| FNA 160--Understanding the Visual Arts;                                                   |           |
| GOVT 210--Introduction to Political Theory;                                               |           |
| HIS 201--Global Studies;                                                                  |           |
| HIS 202--American Studies;                                                                |           |
| MUSH 361--History of Music I                                                              |           |
| MUSH 362--History of Music II;                                                            |           |
| PHIL 203--Social Ethics;                                                                  |           |
| PHIL 306--Introduction to Logic;                                                          |           |
| THEA 110--Introduction to Theatre; or A foreign language course                           | 3         |
| HIS 201--Global Studies; or HIS 202--American Studies                                     | 3         |
| PHIL 200--Introduction to Philosophy                                                      | 3         |
| BIOL 231--Human Anatomy                                                                   | 3         |
| SCI 109--Physical Science for Elementary Teachers                                         | 3         |

|                                                                                                      |   |
|------------------------------------------------------------------------------------------------------|---|
| MATH 232--Math for the Elementary Teachers II                                                        | 3 |
| PSY 154--Introduction to Psychology                                                                  | 3 |
| GOVT 141--United States Government; or *GOVT 362--Current World Problems                             | 3 |
| GEO 100--Fundamentals of Geography; or *SOC 305--Cultural Anthropology                               | 3 |
| HLTH 151--Wellness: Theory in Action; or HS 101--Nutrition and Well Being                            | 3 |
| *One non-western culture course--GOVT 362--Current World Problems; or SOC 305--Cultural Anthropology |   |

\*Meets non-western culture course requirement.

## 2. Area of Concentration in LBD and Early Elementary P-5

|                                                                                            |             |
|--------------------------------------------------------------------------------------------|-------------|
| <b>Special Education</b>                                                                   | <b>27</b>   |
| EDSP 230--Education of Exceptional Children                                                | 3           |
| EDSP 320--Introduction to Corrective Speech                                                | 3           |
| EDSP 350--Characteristics of Individuals with Mental Retardation and Orthopedic Handicaps  | 3           |
| EDSP 360--Characteristics of Individuals with Learning Disabilities and Behavior Disorders | 3           |
| EDSP 537--Educational Assessments of Exceptional Children                                  | 3           |
| EDSP 551--Curriculum for Pre-School Exceptional Children                                   | 3           |
| EDSP 553--Language Arts for Exceptional Children                                           | 3           |
| EDSP 555--Prescriptive Teaching for Children with Learning and Behavior Problems           | 3           |
| EDSP 557--Content Areas and Career Preparation for Exceptional Students                    | 3           |
| <b>Education</b>                                                                           | <b>32</b>   |
| EDF 207--Foundations of Education                                                          | 3           |
| EDF 211--Human Growth and Development                                                      | 3           |
| EDEL 301--Media Strategies                                                                 | 2           |
| EDEE 305--Learning Theories in Early Elementary Classroom                                  | 3           |
| EDEE 321--Number Concepts and Mathematics                                                  | 3           |
| EDEE 322--Teaching Social Studies in Early Elementary                                      | 3           |
| EDEE 323--Language Arts in Early Elementary                                                | 3           |
| EDEE 331--Reading Strategies                                                               | 3           |
| SCI 490--Science for Elementary Teachers                                                   | 3           |
| EDUC 582--Discipline and Classroom Management                                              | 3           |
| <b>Integrated Capstone Component</b>                                                       | <b>15</b>   |
| EDSP 435--Student Teaching - LBD                                                           | 7           |
| EDEE 423--Student Teaching                                                                 | 6           |
| EDEM 426--Pre-student Teaching Seminar                                                     | 2           |
| <b>Related Studies</b>                                                                     | <b>9-10</b> |
| ART 121--School Art I                                                                      | 3           |
| EDEE 327--Literature and Materials for Young Readers                                       | 3           |
| HLTH 301--Health, Safety and Nutrition for Early Elementary                                | 2           |
| MATH 231--Math for the Elementary Teacher I                                                | 3           |
| MUST 100--Rudiments of Music                                                               | 2           |
| MUSE 221--Music for Elementary Teachers                                                    | 2           |
| PHED 311--Movement Exploration                                                             | 3           |
| <b>General Education</b>                                                                   | <b>45</b>   |
| ENG 100--Writing I                                                                         | 3           |
| ENG 200--Writing II                                                                        | 3           |
| SPCH 108--Fundamentals of Speech Communication                                             | 3           |
| MATH 131--Problem Solving; or other approved math reasoning course                         | 3           |
| EDUC 222--Computing Tools for Educators; or CIS 101--Computers for Learning                | 3           |
| <b>Humanities Elective:</b>                                                                |             |
| ART 263--Art History I;                                                                    |             |
| ART 264--Art History II;                                                                   |             |
| ART 265--Art History III;                                                                  |             |
| CMEM 205--Media Literacy;                                                                  |             |
| ENG 205--Language: Culture and Mind;                                                       |             |
| ENG 220--Topics in Literature;                                                             |             |
| ENG 293--Introduction to Creative Writing;                                                 |             |

|                                                    |   |
|----------------------------------------------------|---|
| FNA 160--Understanding the Visual Arts;            |   |
| GOVT 210--Introduction to Political Theory;        |   |
| HIS 201--Global Studies;                           |   |
| HIS 202--American Studies;                         |   |
| MUSH 361--History of Music I;                      |   |
| MUSH 362--History of Music II;                     |   |
| PHIL 203--Social Ethics;                           |   |
| PHIL 306--Introduction to Logic;                   |   |
| THEA 110--Introduction to Theatre; or              |   |
| A foreign language course                          | 3 |
| HIS 201--Global Studies; or                        |   |
| HIS 202--American Studies                          | 3 |
| PHIL 200--Introduction to Philosophy               | 3 |
| BIOL 231--Human Anatomy                            | 3 |
| SCI 109--Physical Science for Elementary Teachers  | 3 |
| MATH 232--Math for Elementary Teachers II          | 3 |
| PSY 154--Introduction to Psychology                | 3 |
| GOVT 141--United States Government; or             |   |
| *GOVT 362--Current World Problems                  | 3 |
| GEO 100--Fundamentals of Geography; or             |   |
| *SOC 305--Cultural Anthropology                    | 3 |
| HLTH 151--Wellness: Theory in Action; or           |   |
| HS 101--Nutrition and Well Being                   | 3 |
| *One non-western culture course must be completed: |   |
| GOVT 362--Current World Problems; or               |   |
| SOC 305--Cultural Anthropology                     |   |

\*Meets the non-western culture course requirement.

### Academic Component 21-23

The academic component may be chosen from: English, art, music, fine arts-multidisciplinary, speech-theatre, French, Spanish, mathematics, science or social studies. (Students should see their advisor for a list of specific courses in each component.)

## 3. Area of Concentration in LBD and Middle Grades (5-9)

|                                                              |            |
|--------------------------------------------------------------|------------|
| <b>Special Education</b>                                     | <b>27</b>  |
| EDSP 230--Education of Exceptional Children                  | 3          |
| EDSP 320--Introduction to Corrective Speech                  | 3          |
| EDSP 350--Characteristics of Individuals with                |            |
| Mental Retardation and Orthopedic Handicaps                  | 3          |
| EDSP 360--Characteristics of Learning and Behavior Disorders | 3          |
| EDSP 537--Educational Assessment of Exceptional Children     | 3          |
| EDSP 551--Curriculum for Pre-School Exceptional Children     | 3          |
| EDSP 553--Language Arts for the Exceptional Child            | 3          |
| EDSP 555--Prescriptive Teaching                              | 3          |
| EDSP 557--Content Areas and Career Preparation               |            |
| for Exceptional Children                                     | 3          |
| <b>Education</b>                                             | <b>32</b>  |
| EDF 207--Foundations of Education                            | 3          |
| EDF 211--Human Growth and Development                        | 3          |
| EDEL 301--Media Strategies                                   | 2          |
| EDMG 306--Development and Learning in the Middle Grades      | 3          |
| EDEM 330--Foundations of Reading                             | 3          |
| EDMG 332--Reading Strategies for the Middle Grades           | 3          |
| EDMG 341--Teaching Math in the Middle Grades                 | 3          |
| EDMG 342--Teaching Social Studies in the Middle Grades       | 3          |
| EDMG 343--Teaching Language Arts in the Middle Grades        | 3          |
| EDMG 347--Literature and Materials for Preadolescents        | 3          |
| EDUC 582--Discipline and Classroom Management                | 3          |
| <b>Integrated Capstone Component</b>                         | <b>15</b>  |
| EDSP 435--Student Teaching - LBD                             | 7          |
| EDMG 446--Student Teaching                                   | 6          |
| EDEM 426--Pre-student Teaching Seminar                       | 2          |
| <b>Related Studies</b>                                       | <b>6-7</b> |
| ART 121--School Art I; or                                    |            |
| MUST 100--Rudiments of Music; and                            |            |
| MUSE 221--Music for Elementary Teachers                      | 3-4        |

|                                                     |           |
|-----------------------------------------------------|-----------|
| MATH 231--Mathematics for the Elementary Teachers I | 3         |
| <b>General Education</b>                            | <b>45</b> |
| ENG 100--Writing I                                  | 3         |
| ENG 200--Writing II                                 | 3         |
| SPCH 108--Fundamentals of Speech Communication      | 3         |
| MATH 131--Problem Solving; or other approved        |           |
| math reasoning course                               | 3         |
| EDUC 222--Computing Tools for Educators; or         |           |
| CIS 101--Computers for Learning                     | 3         |
| <b>Humanities Elective:</b>                         |           |
| ART 263--Art History I;                             |           |
| ART 264--Art History II;                            |           |
| ART 265--Art History III;                           |           |
| CMEM 210--Media Literacy                            |           |
| ENG 205--Language: Culture and Mind;                |           |
| ENG 220--Topics in Literature                       |           |
| ENG 293--Introduction to Creative Writing;          |           |
| FNA 160--Understanding the Visual Arts;             |           |
| GOVT 210--Introduction to Political Theory;         |           |
| HIS 201--Global Studies;                            |           |
| HIS 202--American Studies;                          |           |
| MUSH 361--History of Music I;                       |           |
| MUSH 362--History of Music II;                      |           |
| PHIL 203--Social Ethics;                            |           |
| PHIL 306--Introduction to Logic;                    |           |
| THEA 110--Introduction to Theatre; or               |           |
| A foreign language course                           | 3         |
| HIS 201--Global Studies; or                         |           |
| HIS 202--American Studies                           | 3         |
| PHIL 200--Introduction to Philosophy                | 3         |
| BIOL 231--Human Anatomy                             | 3         |
| SCI 109--Physical Science for Elementary Teachers   | 3         |
| MATH 232--Math for the Elementary Teacher II        | 3         |
| PSY 154--Introduction to Psychology                 | 3         |
| GOVT 141--United States Government; or              |           |
| *GOVT 362--Current World Problems                   | 3         |
| GEO 100--Fundamentals of Geography; or              |           |
| *SOC 305--Cultural Anthropology                     | 3         |
| HLTH 151--Wellness: Theory in Action; or            |           |
| HS 101--Nutrition and Well Being                    | 3         |
| *One non-western culture course must be completed:  |           |
| GOVT 362--Current World Problems; or                |           |
| SOC 305--Cultural Anthropology                      | 3         |

\*Meets the non-western culture course requirement.

### Academic Component minimum 24

The component must be chosen from: English, science, social studies and mathematics. (Students should see their advisors for a list of specific courses in each component.)

## Moderate and Severe Disabilities Program

This program prepares individuals for professional certification for teaching students with moderate and severe disabilities in grades P-12. Students have the following three options for obtaining MSD certification:

1. single certification to teach students with moderate and severe disabilities at any grade level (P-12).
2. MSD certification and certification to teach the early elementary grades (P-5).
3. MSD certification and certification to teach in middle grades (5-9).

## 1. Area of Concentration in MSD

|                                                                                                    |    |
|----------------------------------------------------------------------------------------------------|----|
| <b>Special Education</b> .....                                                                     | 33 |
| EDSP 230--Education of Exceptional Children .....                                                  | 3  |
| EDSP 235--Including Students with Diverse Needs<br>in the Classroom .....                          | 3  |
| EDSP 320--Introduction to Corrective Speech .....                                                  | 3  |
| EDSP 350--Characteristics of Individuals with<br>Mental Retardation and Orthopedic Handicaps ..... | 3  |
| <b>EDSP 356--Applied Behavior Analysis</b> .....                                                   | 3  |
| EDSP 370--Assessment of Students with MSD .....                                                    | 3  |
| EDSP 371--Field Experience in Assessment of Students with MSD ..                                   | 1  |
| EDSP 372--Transition to Adult Life .....                                                           | 3  |
| EDSP 373--Curriculum for Students with MSD .....                                                   | 3  |
| EDSP 374--Teaching Students with MSD .....                                                         | 3  |
| EDSP 375--Practicum in Education of Students with MSD .....                                        | 2  |
| EDSP 551--Curriculum for Pre-School Exceptional Children .....                                     | 3  |

*Course in Italic are to be taken concurrently.*

**Courses in bold are part of the MSD block to be taken concurrently during the fall semester preceding student teaching.**

|                                                                                      |    |
|--------------------------------------------------------------------------------------|----|
| <b>Education</b> .....                                                               | 23 |
| EDF 207--Foundations of Education .....                                              | 3  |
| EDF 211--Human Growth and Development .....                                          | 3  |
| EDEL 301--Media Strategies .....                                                     | 2  |
| EDEE 305--Learning Theories in Early Elementary Classroom .....                      | 3  |
| EDEE 321--Number Concepts and Mathematics .....                                      | 3  |
| EDEE 323--Language Arts in Early Elementary .....                                    | 3  |
| EDEE 331--Reading Strategies .....                                                   | 3  |
| EDEM 330--Foundations of Reading .....                                               | 3  |
| <b>Integrated Capstone Component</b> .....                                           | 15 |
| EDSP 437--Student Teaching - MSD .....                                               | 13 |
| EDEM 426--Pre-student Teaching Seminar .....                                         | 2  |
| <b>Related Studies</b> .....                                                         | 16 |
| ART 121--School Art I .....                                                          | 3  |
| EDEE 327--Literature and Materials for Young Readers .....                           | 3  |
| HLTH 301--Health, Safety and Nutrition for<br>Early Elementary .....                 | 2  |
| MATH 231--Mathematics for the Elementary Teachers I .....                            | 3  |
| MUST 100--Rudiments of Music .....                                                   | 2  |
| PHED 311--Movement Exploration .....                                                 | 3  |
| <b>General Education</b> .....                                                       | 45 |
| ENG 100--Writing I .....                                                             | 3  |
| ENG 200--Writing II .....                                                            | 3  |
| SPCH 108--Fundamentals of Speech Communication .....                                 | 3  |
| MATH 131--Problem Solving; or other approved math reasoning course                   | 3  |
| EDUC 222--Computing Tools for Educators; or<br>CIS 101--Computers for Learning ..... | 3  |
| <b>Humanities Elective:</b>                                                          |    |
| ART 263--Art History I;                                                              |    |
| ART 264--Art History II;                                                             |    |
| ART 265--Art History III;                                                            |    |
| CMEM 210--Media Literacy;                                                            |    |
| ENG 205--Language: Culture and Mind;                                                 |    |
| ENG 220--Topics in Literature;                                                       |    |
| ENG 293--Introduction to Creative Writing;                                           |    |
| FNA 160--Understanding the Visual Arts;                                              |    |
| GOVT 210--Introduction to Political Theory;                                          |    |
| HIS 201--Global Studies;                                                             |    |
| HIS 202--American Studies;                                                           |    |
| MUSH 361--History of Music I;                                                        |    |
| MUSH 362--History of Music II;                                                       |    |
| PHIL 203--Social Ethics;                                                             |    |
| PHIL 306--Introduction to Logic;                                                     |    |
| THEA 110--Introduction to Theatre; or<br>A foreign language course .....             | 3  |
| HIS 201--Global Studies; or                                                          |    |
| HIS 202--American Studies .....                                                      | 3  |
| PHIL 200--Introduction to Philosophy .....                                           | 3  |

|                                                                                                                                    |   |
|------------------------------------------------------------------------------------------------------------------------------------|---|
| BIOL 231--Human Anatomy .....                                                                                                      | 3 |
| SCI 109--Physical Science for Elementary Teachers .....                                                                            | 3 |
| MATH 232--Math for the Elementary Teacher II .....                                                                                 | 3 |
| PSY 154--Introduction to Psychology .....                                                                                          | 3 |
| GOVT 141--United States Government; or<br>*GOVT 362--Current World Problems .....                                                  | 3 |
| GEO 100--Fundamentals of Geography; or<br>*SOC 305--Cultural Anthropology .....                                                    | 3 |
| HLTH 151--Wellness: Theory in Action; or<br>HS 101--Nutrition and Well Being .....                                                 | 3 |
| *One non-western culture course must be completed:<br>GOVT 362--Current World Problems; or<br>SOC 305--Cultural Anthropology ..... | 3 |

\*Meets the non-western culture course requirement.

## 2. Area of Concentration in MSD and Early Elementary (P-5)

|                                                                                                    |    |
|----------------------------------------------------------------------------------------------------|----|
| <b>Special education</b> .....                                                                     | 33 |
| EDSP 230--Education of Exceptional Children .....                                                  | 3  |
| EDSP 235--Including Students with Diverse Needs<br>in the Classroom .....                          | 3  |
| EDSP 320--Introduction to Corrective Speech .....                                                  | 3  |
| EDSP 350--Characteristics of Individuals with<br>Mental Retardation and Orthopedic Handicaps ..... | 3  |
| <b>EDSP 356--Applied Behavior Analysis</b> .....                                                   | 3  |
| EDSP 370--Assessment of Students with MSD .....                                                    | 3  |
| EDSP 371--Field Experience in Assessment of Students with MSD ..                                   | 1  |
| EDSP 372--Transition to Adult Life .....                                                           | 3  |
| EDSP 373--Curriculum for Students with MSD .....                                                   | 3  |
| EDSP 374--Teaching Students with MSD .....                                                         | 3  |
| EDSP 375--Practicum in Education of Students with MSD .....                                        | 2  |
| EDSP 551--Curriculum for Pre-School Exceptional Children .....                                     | 3  |

*Course in Italic are to be taken concurrently.*

**Courses in bold are part of the MSD block to be taken concurrently during the fall semester preceding student teaching.**

|                                                                      |    |
|----------------------------------------------------------------------|----|
| <b>Education</b> .....                                               | 32 |
| EDF 207--Foundations of Education .....                              | 3  |
| EDF 211--Human Growth and Development .....                          | 3  |
| EDEL 301--Media Strategies .....                                     | 2  |
| EDEE 305--Learning Theories in Early Elementary Classroom .....      | 3  |
| EDEE 321--Numbers Concepts and Mathematics .....                     | 3  |
| EDEE 322--Teaching Social Studies in Early Elementary .....          | 3  |
| EDEE 323--Language Arts in Early Elementary .....                    | 3  |
| EDEE 331--Reading Strategies .....                                   | 3  |
| EDEM 330--Foundations of Reading .....                               | 3  |
| SCI 490--Science for Elementary Teachers .....                       | 3  |
| EDUC 582--Discipline and Classroom Management .....                  | 3  |
| <b>Integrated Capstone Component</b> .....                           | 15 |
| EDSP 437--Student Teaching - MSD .....                               | 7  |
| EDEE 423--Student Teaching .....                                     | 6  |
| EDEM 426--Pre-student Teaching Seminar .....                         | 2  |
| <b>Related studies</b> .....                                         | 18 |
| ART 121--School Art I .....                                          | 3  |
| EDEE 327--Literature and Materials for Young Readers .....           | 3  |
| HLTH 301--Health, Safety and Nutrition for<br>Early Elementary ..... | 2  |
| MATH 231--Mathematics for the Elementary Teachers I .....            | 3  |
| MUST 100--Rudiments of Music .....                                   | 2  |
| MUSE 221--Music for Elementary Teachers .....                        | 2  |
| PHED 311--Movement Exploration .....                                 | 3  |
| <b>General Education</b> .....                                       | 45 |
| ENG 100--Writing I .....                                             | 3  |
| ENG 200--Writing II .....                                            | 3  |
| SPCH 108--Fundamentals of Speech Communication .....                 | 3  |

|                                                                                                                              |   |
|------------------------------------------------------------------------------------------------------------------------------|---|
| MATH 131--Problem Solving; or other approved<br>math reasoning course                                                        | 3 |
| EDUC 222--Computing Tools for Educators; or<br>CIS 101--Computers for Learning                                               | 3 |
| Humanities Elective:                                                                                                         |   |
| ART 263--Art History I;                                                                                                      |   |
| ART 264--Art History II;                                                                                                     |   |
| ART 265--Art History III;                                                                                                    |   |
| CMEM 210--Medial Literacy;                                                                                                   |   |
| ENG 205--Language: Culture and Mind;                                                                                         |   |
| ENG 220--Topics in Literature;                                                                                               |   |
| ENG 293--Introduction to Creative Writing;                                                                                   |   |
| FNA 160--Understanding the Visual Arts;                                                                                      |   |
| GOVT 210--Introduction to Political Theory;                                                                                  |   |
| HIS 201--Global Studies;                                                                                                     |   |
| HIS 202--American Studies;                                                                                                   |   |
| MUSH 361--History of Music I;                                                                                                |   |
| MUSH 362--History of Music II;                                                                                               |   |
| PHIL 203--Social Ethics;                                                                                                     |   |
| PHIL 306--Introduction to Logic;                                                                                             |   |
| THEA 110--Introduction to Theatre; or<br>A foreign language course                                                           | 3 |
| HIS 201--Global Studies; or<br>HIS 202--American Studies                                                                     | 3 |
| PHIL 200--Introduction to Philosophy                                                                                         | 3 |
| BIOL 231--Human Anatomy                                                                                                      | 3 |
| SCI 109--Physical Science for Elementary Teachers                                                                            | 3 |
| MATH 232--Math for the Elementary Teacher II                                                                                 | 3 |
| PSY 154--Introduction to Psychology                                                                                          | 3 |
| GOVT 141--United States Government; or<br>*GOVT 363--Current World Problems                                                  | 3 |
| GEO 100--Fundamentals of Geography; or<br>*SOC 305--Cultural Anthropology                                                    | 3 |
| HLTH 151--Wellness: Theory in Action; or<br>HS 101--Nutrition and Well Being                                                 | 3 |
| *One non-western culture course must be completed:<br>GOVT 362--Current World Problems; or<br>SOC 305--Cultural Anthropology |   |

\*Meets the non-western culture course requirement.

#### Academic Component . . . . . minimum 21

The academic component must be chosen from: English, art, music, fine arts-multidisciplinary, speech-theatre, French, Spanish, mathematics, or social studies. (The student should see their academic advisor for a list of specific courses in each component.)

### 3. Area of Concentration in MSD and Middle Grades (5-9)

|                                                                                              |    |
|----------------------------------------------------------------------------------------------|----|
| Special Education                                                                            | 33 |
| EDSP 230--Education of Exceptional Children                                                  | 3  |
| EDSP 235--Including Students with Diverse Needs<br>in the Classroom                          | 3  |
| EDSP 320--Introduction to Corrective Speech                                                  | 3  |
| EDSP 350--Characteristics of Individuals with<br>Mental Retardation and Orthopedic Handicaps | 3  |
| EDSP 356--Applied Behavior Analysis                                                          | 3  |
| EDSP 370--Assessment of Students with MSD                                                    | 3  |
| EDSP 371--Field Experience in Assessment of Students with MSD                                | 1  |
| EDSP 372--Transition to Adult Life                                                           | 3  |
| EDSP 373--Curriculum for Students with MSD                                                   | 3  |
| EDSP 374--Teaching Students with MSD                                                         | 3  |
| EDSP 375--Practicum in Education of Students with MSD                                        | 2  |
| EDSP 551--Curriculum for Pre-School Exceptional Children                                     | 3  |

Course in *italic* are to be taken concurrently.

Courses in **bold** are part of the MSD block to be taken concurrently during the fall semester preceding student teaching.

|                                                                                                                              |            |
|------------------------------------------------------------------------------------------------------------------------------|------------|
| Education                                                                                                                    | 32         |
| EDF 207--Foundations of Education                                                                                            | 3          |
| EDF 211--Human Growth and Development                                                                                        | 3          |
| EDEL 301--Media Strategies                                                                                                   | 2          |
| EDMG 306--Development and Learning in the Middle Grades                                                                      | 3          |
| EDEM 330--Foundations of Reading                                                                                             | 3          |
| EDMG 332--Reading Strategies for the Middle Grades                                                                           | 3          |
| EDMG 341--Teaching Math in the Middle Grades                                                                                 | 3          |
| EDMG 342--Teaching Social Studies in the Middle Grades                                                                       | 3          |
| EDMG 343--Teaching Language Arts in the Middle Grades                                                                        | 3          |
| EDMG 347--Literature and Materials for Preadolescents                                                                        | 3          |
| EDUC 582--Discipline and Classroom Management                                                                                | 3          |
| <b>Integrated Capstone Component</b>                                                                                         | <b>15</b>  |
| EDSP 437--Student Teaching - MSD                                                                                             | 7          |
| EDEE 446--Student Teaching                                                                                                   | 6          |
| EDEM 426--Pre-student Teaching Seminar                                                                                       | 2          |
| <b>Related studies</b>                                                                                                       | <b>6-7</b> |
| ART 121--School Art I; or<br>MUST 100--Rudiments of Music and<br>MUSE 221--Music for Elementary Teachers                     | 3-4        |
| MATH 231--Mathematics for the Elementary Teachers I                                                                          | 3          |
| <b>General Education</b>                                                                                                     | <b>48</b>  |
| ENG 100--Writing I                                                                                                           | 3          |
| ENG 200--Writing II                                                                                                          | 3          |
| SPCH 108--Fundamentals of Speech Communication                                                                               | 3          |
| MATH 131--Problem Solving; or other approved<br>math reasoning course                                                        | 3          |
| EDUC 222--Computing Tools for Educators; or<br>CIS 101--Computers for Learning                                               | 3          |
| Humanities Elective:                                                                                                         |            |
| ART 263--Art History I;                                                                                                      |            |
| ART 264--Art History II;                                                                                                     |            |
| ART 265--Art History III;                                                                                                    |            |
| CMEM 210--Medial Literacy;                                                                                                   |            |
| ENG 205--Language: Culture and Mind;                                                                                         |            |
| ENG 220--Topics in Literature;                                                                                               |            |
| ENG 293--Introduction to Creative Writing;                                                                                   |            |
| FNA 160--Understanding the Visual Arts;                                                                                      |            |
| GOVT 210--Introduction to Political Theory;                                                                                  |            |
| HIS 201--Global Studies;                                                                                                     |            |
| HIS 202--American Studies;                                                                                                   |            |
| MUSH 361--History of Music I;                                                                                                |            |
| MUSH 362--History of Music II;                                                                                               |            |
| PHIL 203--Social Ethics;                                                                                                     |            |
| PHIL 306--Introduction to Logic;                                                                                             |            |
| THEA 110--Introduction to Theatre; or<br>A foreign language course                                                           | 3          |
| HIS 201--Global Studies; or<br>HIS 202--American Studies                                                                     | 3          |
| PHIL 200--Introduction to Philosophy                                                                                         | 3          |
| BIOL 231--Human Anatomy                                                                                                      | 3          |
| SCI 109--Physical Science for Elementary Teachers                                                                            | 3          |
| MATH 232--Math for the Elementary Teacher II                                                                                 | 3          |
| PSY 154--Introduction to Psychology                                                                                          | 3          |
| GOVT 141--United States Government; or<br>*GOVT 363--Current World Problems                                                  | 3          |
| GEO 100--Fundamentals of Geography; or<br>*SOC 305--Cultural Anthropology                                                    | 3          |
| HLTH 151--Wellness: Theory in Action; or<br>HS 101--Nutrition and Well Being                                                 | 3          |
| *One non-western culture course must be completed:<br>GOVT 362--Current World Problems; or<br>SOC 305--Cultural Anthropology | 3          |

\*Meets the non-western culture course requirement.

**Academic Component . . . . . minimum 24**

The academic component must be chosen from: English, science, math, or social studies. (Students should see their advisors for a list of specific courses in each component.)

**Portfolio Requirements**

All MSD students will complete a required portfolio component in the following courses:

1. EDSP 370 and EDSP 371--Assessment and Planning Portfolio
2. EDSP 373 and EDSP 375--Curriculum and Instruction Design Portfolio
3. EDSP 356, EDSP 374, and EDSP 375--Instruction and Classroom Management Portfolio
4. EDSP 437--Preservice Teacher Portfolio

**Non-Teaching Major and Minor**

The department offers a non-teaching major and minor for students who would like to study special education, but do not desire teacher certification. The major or minor is often taken in connection with majors or minors (for example, recreation or psychology) which prepare individuals to work with adults or children in non-public settings.

**Major (Non-Teaching)**

|                                                                                                                                               |           |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| EDSP 230--Education of Exceptional Children . . . . .                                                                                         | 3         |
| EDSP 350--Characteristics of Individuals with<br>Mental Retardation and Orthopedic Handicaps . . . . .                                        | 3         |
| EDSP 360--Characteristics of Individuals with<br>Learning Disabilities and Behavior Disorders . . . . .                                       | 3         |
| EDSP 537--Educational Assessment of Exceptional Children; or<br>Advisor approved course from MSD Program . . . . .                            | 3         |
| EDSP 555--Prescriptive Teaching for Children with Learning<br>and Behavior Problems; or<br>Advisor approved course from MSD Program . . . . . | 3         |
| EDEM 330--Foundations of Reading . . . . .                                                                                                    | 3         |
| EDSP 320--Introduction to Corrective Speech; or<br>SPCH 320--Introduction to Corrective Speech . . . . .                                      | 3         |
| PSY 559--Behavior Modification . . . . .                                                                                                      | 3         |
| Electives (approved by advisor) . . . . .                                                                                                     | 6         |
| Laboratory experiences EDSP 435 or EDSP 436 . . . . .                                                                                         | 4         |
|                                                                                                                                               | <b>34</b> |

**Minor (Non-Teaching)**

|                                                                                                                                               |           |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| EDSP 230--Education of Exceptional Children . . . . .                                                                                         | 3         |
| EDSP 350--Characteristics of Individuals with<br>Mental Retardation and Orthopedic Handicaps . . . . .                                        | 3         |
| EDSP 360--Characteristics of Individuals with<br>Learning Disabilities and Behavior Disorders . . . . .                                       | 3         |
| EDSP 537--Educational Assessment of Exceptional Children; or<br>Advisor approved course from MSD Program . . . . .                            | 3         |
| EDSP 555--Prescriptive Teaching for Children with Learning<br>and Behavior Problems; or<br>Advisor approved course from MSD Program . . . . . | 3         |
| EDEM 330--Foundations of Reading . . . . .                                                                                                    | 3         |
| PSY 559--Behavior Modification . . . . .                                                                                                      | 3         |
| Laboratory experiences EDSP 435 or EDSP 436 . . . . .                                                                                         | 4         |
|                                                                                                                                               | <b>25</b> |

## Department of Leadership and Secondary Education

Vacant, Chair  
(606) 783-2502  
503 Ginger Hall

**Faculty**--D. Fasko, D. Grubb, E. Hall, L. Lennex, S. Pullen

The primary role of secondary education is to serve various departments of the University by offering a professional education curriculum leading to certification (Letter of Eligibility) of teachers for secondary schools. Students wishing to pursue a teaching certificate in Secondary Education will be assigned an advisor in their respective major content area. Students need to be aware that general education requirements may differ by content area. For specific program requirements, students need to obtain an official checklist from their advisor or the content area department chair (e.g., Department of English, Foreign Languages, and Philosophy for inquiries about obtaining a secondary teaching certificate in English.) An *unofficial* checklist and general information about the Secondary Education Teacher Education Program may be obtained in Ginger Hall 801 at the Clearinghouse for School Services or the Teacher Education Services Office. Another source of information, as they go on-line, will be departmental Web pages that will contain copies of departmental checklists for downloading and printing.

### Requirements for Certification in Secondary Education Professional Education Courses . . . . . 28

|                                                               |   |
|---------------------------------------------------------------|---|
| EDF 207--Foundations of Education . . . . .                   | 3 |
| EDF 211--Human Growth and Development . . . . .               | 3 |
| EDF 311--Learning Theories in the Classroom . . . . .         | 3 |
| EDSE 312--Teaching Skills and Media . . . . .                 | 3 |
| EDSP 332--Teaching the Exceptional Student . . . . .          | 2 |
| EDSE 333--Field Experiences in Secondary Classrooms . . . . . | 2 |
| (may be required for some majors)                             |   |

|                                                 |           |
|-------------------------------------------------|-----------|
| <b>Professional Semester . . . . .</b>          | <b>14</b> |
| EDSE 499C--Teacher in Today's Schools . . . . . | 2         |
| EDSE 416--Student Teaching . . . . .            | 12        |

Secondary education students admitted to the teacher education program will be required to demonstrate computer expertise prior to graduation. They may demonstrate this expertise by completing at least one of the following:

1. CIS 101--Computers for Learning; or  
EDUC 222--Computing Tools for Educators
2. CLEP Education (available in the University Testing Center)
3. A Computer workshop taken for college credit.

**IMPORTANT:** For information about secondary education certification, see the subject area in which certification is being sought--i.e., English.

## Department of Health, Physical Education and Recreation

Jack Sheltmire, Chair  
(606) 783-2180  
201 Laughlin Health Building

The Department of Health, Physical Education, and Recreation offers general education courses, majors and minors in health and recreation, a major in physical education, and minors in athletic training and coaching. The general education courses are for all students.

Students selecting a major in health, physical education or recreation will be required to complete an admissions assessment as well as an exit examination over the knowledge and competencies of their program. Results of these assessments are used for individual guidance and program development. Students should check with their advisors to be certain that they comply with all requirements.

## Athletic Training

**Faculty**--L. Brown, B. Crager, J. DoRosario, R. Kling, J. Sheltmire (Chair)

### Minor

|                                                      |    |
|------------------------------------------------------|----|
| HLTH 151--Wellness: Theory to Action                 | 3  |
| HLTH 206--Principles of Nutrition                    | 3  |
| *PHED 220--Athletic Training I                       | 3  |
| PHED 221--Therapeutic Modalities                     | 2  |
| *BIOL 232--Human Physiology                          | 3  |
| *PHED 340--Athletic Training II                      | 3  |
| PHED 341--Athletic Injury Assessment                 | 3  |
| *PHED 402--Kinesiology                               | 3  |
| *PHED 432--Physiology of Exercise                    | 3  |
|                                                      | 26 |
| PHED 490--Internship in Athletic Training (elective) | 6  |
| *BIOL 231--Human Anatomy (elective)                  | 3  |
| *HLTH 203--Safety and First Aid (elective)           | 3  |

\*These courses are required for National Athletic Trainers' Association and Kentucky certification. Admission to the athletic training internship program is a prerequisite. Following the successful completion of these requirements, the student will be eligible to take the national and/or Kentucky's state athletic trainer certification examination(s).

## Coaching

**Faculty**--P. Adkins, M. Ballard, W. Breeding, D. Brown, B. Crager, L. Fitzgerald, T. Hardman, J. Jarnagin, L. Litter, J. Sheltmire (Chair), J. VanSickle

### Minor

|                                                      |    |
|------------------------------------------------------|----|
| PHED 201--Introduction to Coaching                   | 3  |
| PHED 220--Athletic Training I                        | 3  |
| PHED 330--Scientific Bases of Coaching               | 3  |
| PHED 332--Principles of Strength & Conditioning      | 3  |
| PHED 336--Foundations of Sport Psychology            | 3  |
| PHED 350--Coaching of Sport (select 2)               |    |
| a. Baseball                                          | 2  |
| b. Basketball                                        | 2  |
| c. Cross Country, Track & Field                      | 2  |
| d. Football                                          | 2  |
| e. Golf                                              | 2  |
| f. Soccer                                            | 2  |
| g. Softball                                          | 2  |
| h. Swimming                                          | 2  |
| i. Tennis                                            | 2  |
| j. Volleyball                                        | 2  |
| k. Wrestling                                         | 2  |
| PHED 420--Administration of School Athletic Programs | 3  |
| PHED 477--Internship in Coaching                     | 3  |
|                                                      | 25 |

**NOTE:** A physical education major (P-12) must have an additional minor for an AB degree in education if selecting a coaching minor.

## Health

**Faculty**--D. Brown, L. Brown, B. Crager, R. Grueninger, T. Hardman, J. Sheltmire (Chair), Y. Siewe

### Competencies Required in the Program

*Students are:*

1. To be familiar with the components of and function of each facet of a comprehensive school health or health promotion program.
2. To communicate effectively including the ability to write objectives which address the three domains of education (cognitive, affective, and psychomotor).
3. To be able to effectively plan, implement and evaluate teaching units including various teaching strategies and/or methodologies which address the seventy-five defined learner outcomes identified in the Kentucky Educational Reform Act.
4. To be cognizant of the various types of learners, and the learning strategies/methodologies which will address the needs to each learner classification.
5. To develop educational units that encourage cross disciplinary integration.
6. To develop critical thinking and problem solving skills.

7. To serve as a facilitator, health advocate, and resource professional for current and future issues in the profession of health for students, teacher, administrators and the community.
8. To identify and effectively utilize appropriate resources pertaining to health.
9. To be familiar with professional organizations, current trends and issues relevant to health.
10. To develop classroom skills that will be conducive to the successful accumulation of knowledge and illustrate the applicability to real world situations.
11. To successfully develop measurement and evaluation instruments which will not only assess the health needs of the student as well as effectiveness of instruction.
12. To effectively disseminate objective, non-biased health information and activities which will provide the student the opportunity to formulate personal values concerning health-related issues.
13. To become familiar with and develop the skills identified within the competencies/responsibilities of an entry level health educator.

#### Assessment Procedures

Portfolios

Certification examination

Employment data

External evaluation practicum/field experiences

### Bachelor of Arts

The health major and minor programs prepare individuals for positions in any of the five recognized work settings for health educators--school, community, college/university, work-site, or medical. The programs are broken down into two classifications: Health Promotions and Health Education (P-12).

Specific general education requirements for health education programs are HLTH 151, one physical activity course, CIS 101 or EDUC 222, and BIOL 231.

#### Major (Health Promotions)

|                                                               |    |
|---------------------------------------------------------------|----|
| HLTH 160--Introduction to Health                              | 3  |
| HLTH 205--Psychological Health                                | 3  |
| HLTH 206--Principles of Nutrition                             | 3  |
| HLTH 230--Community Health                                    | 3  |
| HLTH 302--Evaluation in Health Education and Health Promotion | 3  |
| HLTH 310--Health and Wellness Promotion                       | 3  |
| HLTH 360--Family Health                                       | 3  |
| HLTH 370--Pre-Practicum                                       | 1  |
| HLTH 425--Planning and Managing Health/Wellness Programs      | 3  |
| HLTH 430--Consumer Health                                     | 3  |
| HLTH 470--Practicum                                           | 15 |
| HLTH 490--Issues in Health                                    | 3  |
| HLTH 518--Use and Abuse of Drugs                              | 3  |
|                                                               | 49 |

#### Minor (Health Promotions)

|                                  |   |
|----------------------------------|---|
| HLTH 160--Introduction to Health | 3 |
| HLTH 205--Psychological Health   | 3 |

|                                         |    |
|-----------------------------------------|----|
| HLTH 310--Health and Wellness Promotion | 3  |
| HLTH 360--Family Health                 | 3  |
| HLTH 430--Consumer Health               | 3  |
| HLTH 477--Field Experiences in Health   | 3  |
| HLTH 490--Issues in Health              | 3  |
| HLTH 518--Use and Abuse of Drugs        | 3  |
|                                         | 24 |

#### Major (Health Education P-12)

|                                                               |    |
|---------------------------------------------------------------|----|
| HLTH 160--Introduction to Health                              | 3  |
| HLTH 203--Safety and First Aid                                | 3  |
| HLTH 205--Psychological Health                                | 3  |
| HLTH 206--Principles of Nutrition                             | 3  |
| HLTH 230--Community Health                                    | 3  |
| HLTH 302--Evaluation in Health Education and Health Promotion | 3  |
| HLTH 360--Family Health                                       | 3  |
| HLTH 430--Consumer Health                                     | 3  |
| HLTH 475--The School Health Program                           | 3  |
| HLTH 490--Issues in Health                                    | 3  |
| HLTH 518--Use and Abuse of Drugs                              | 3  |
|                                                               | 33 |

#### Required Professional Education Classes:

|                                                                |   |
|----------------------------------------------------------------|---|
| HLTH 300--Health in the Elementary School                      | 2 |
| HLTH 304--Health in the Secondary School                       | 2 |
| HLTH 377--Clinical and Field Experiences in School Health P-12 | 2 |

### Suggested Course Sequence

#### Health Promotions Major

##### Freshman Year

##### First Semester

|                                      |    |
|--------------------------------------|----|
| General Education Core               | 9  |
| HLTH 151--Wellness: Theory in Action | 3  |
| HLTH 203--Safety and First Aid       | 3  |
|                                      | 15 |

##### Second Semester

|                                  |    |
|----------------------------------|----|
| General Education Core           | 15 |
| HLTH 160--Introduction to Health | 3  |
|                                  | 18 |

##### Sophomore Year

##### First Semester

|                                     |    |
|-------------------------------------|----|
| General Education Requirements      | 3  |
| PSY 154--Introduction to Psychology | 3  |
| HLTH 206--Introduction to Nutrition | 3  |
| HLTH 230--Community Health          | 3  |
| Minor                               | 6  |
|                                     | 18 |

##### Second Semester

|                                                                                |    |
|--------------------------------------------------------------------------------|----|
| General Education Requirements                                                 | 3  |
| CIS 101--Computers for Learning; or<br>EDUC 222--Computing Tools for Educators | 3  |
| BIOL 231--Human Anatomy                                                        | 3  |
| EDF 211--Human Growth and Development                                          | 3  |
| HLTH 205--Psychological Health                                                 | 3  |
| Minor                                                                          | 6  |
|                                                                                | 18 |

##### Junior Year

##### First Semester

|                                         |    |
|-----------------------------------------|----|
| BIOL 232--Human Physiology              | 3  |
| HLTH 302--Evaluation in Health          | 3  |
| HLTH 310--Health and Wellness Promotion | 3  |
| Minor                                   | 6  |
|                                         | 15 |

**Second Semester**

|                                                     |    |
|-----------------------------------------------------|----|
| HLTH 360--Family Health                             | 3  |
| HLTH 425--Planning and Managing Health and Wellness | 3  |
| HLTH 430--Consumer Health                           | 3  |
| HLTH 490--Issues in Health                          | 3  |
| Minor                                               | 3  |
|                                                     | 15 |

**Senior Year****First Semester**

|                                                |    |
|------------------------------------------------|----|
| HLTH 370--Pre-Practicum                        | 1  |
| HLTH 499C--Senior Seminar in Health Promotions | 1  |
| HLTH 518--Use and Abuse of Drugs               | 3  |
| Minor; or General Education Requirements       | 9  |
|                                                | 14 |

**Second Semester**

|                       |    |
|-----------------------|----|
| Professional Semester |    |
| HLTH 470--Practicum   | 15 |

**P-12 Health Major****Freshman Year****First Semester**

|                                      |    |
|--------------------------------------|----|
| General Education Requirements       | 9  |
| HLTH 151--Wellness: Theory in Action | 3  |
| HLTH 203--Safety and First Aid       | 3  |
|                                      | 15 |

**Second Semester**

|                                  |    |
|----------------------------------|----|
| General Education Requirements   | 15 |
| HLTH 160--Introduction to Health | 3  |
|                                  | 18 |

**Sophomore Year****First Semester**

|                                     |    |
|-------------------------------------|----|
| General Education Requirements      | 3  |
| PSY 154--Introduction to Psychology | 3  |
| EDF 207--Foundations of Education   | 3  |
| HLTH 206--Principles of Nutrition   | 3  |
| HLTH 230--Community Health          | 3  |
| Minor                               | 3  |
|                                     | 18 |

**Second Semester**

|                                                |    |
|------------------------------------------------|----|
| SPCH 108--Fundamentals of Speech Communication | 3  |
| CIS 101--Computers for Learning                | 3  |
| EDF 211--Human Growth and Development          | 3  |
| HLTH 205--Psychological Health                 | 3  |
| Minor                                          | 3  |
|                                                | 15 |

**Junior Year****First Semester**

|                                                    |    |
|----------------------------------------------------|----|
| BIOL 231--Human Anatomy                            | 3  |
| EDF 311--Learn Theories in the Classroom           | 3  |
| EDSE 333--Field Experience in Secondary Classrooms | 2  |
| HLTH 302--Evaluation in Health                     | 3  |
| Minor                                              | 6  |
|                                                    | 17 |

**Second Semester**

|                                       |    |
|---------------------------------------|----|
| General Education Requirement         | 3  |
| EDSE 312--Teaching Skills and Media   | 3  |
| HLTH 300--Health in Elementary School | 2  |
| HLTH 360--Family Health               | 3  |
| HLTH 490--Issues in Health            | 3  |
| Minor                                 | 3  |
|                                       | 17 |

**Senior Year****First Semester**

|                                               |   |
|-----------------------------------------------|---|
| HLTH 499D--Senior Seminar in Health Education | 3 |
| EDSP 332--Teaching the Exceptional Student    | 2 |
| HLTH 304--Health in the Secondary School      | 3 |

|                                     |    |
|-------------------------------------|----|
| HLTH 475--The School Health Program | 3  |
| HLTH 518--Use and Abuse of Drugs    | 3  |
| Minor                               | 6  |
|                                     | 18 |

**Second Semester****Professional Semester**

|                                     |    |
|-------------------------------------|----|
| EDSE 415--Teacher in Today's School | 2  |
| EDSE 416--Student Teaching          | 12 |
|                                     | 14 |

**Physical Education**

**Faculty**--P. Adkins, D. Brown, B. Crager, L. Fitzgerald,  
R. Grueninger, M. Magner, R. Overton, J. Sheltnire (chair)

**Competencies Required in the Program**

*Students will demonstrate:*

1. *An understanding of and working knowledge of discipline specific content.*
2. *An understanding of general knowledge from other disciplines which can be applied to the discipline.*
3. *Experiences and opportunities to develop the skills and techniques (including technology) needed to ensure the effective delivery of content to students in developmentally appropriate ways.*
4. *Knowledge and activities designed to promote sensitivity to and accountability for diverse learner populations.*
5. *An understanding of and experience using the skills needed for effective classroom management.*
6. *The skills needed to design, implement and evaluate student assessments.*
7. *Knowledge and skills to participate in an interdisciplinary approach to education.*
8. *Knowledge and skills needed to effectively select and utilize a variety of technical and human resources to augment the learning process.*
9. *Opportunities to implement KERA initiatives and to be assessed in regard to the effective delivery (KTIP guidelines) of the same in a variety of preservice practice teaching activities.*

**Assessment Procedures**

*Portfolios*

*Certification examination*

*On demand tasks*

The physical education curriculum emphasizes the study of the art and science of human motion in sport, dance, and exercise. The program may be elected with or without teacher certification. The major entails 39-45 sem. hrs. Teacher certification, primary through high school (P-12) requires an additional 28 sem. hrs. A minor is not offered.

## Bachelor of Arts

The major comprises a core of 6 classes plus one of two options: Teaching (P-12) or Exercise Science.

Specific general education courses required as part of the Physical Education Major include SOC 101, PSY 154, BIOL 231, and BIOL 232.

### Major Core

|                                                                    |    |
|--------------------------------------------------------------------|----|
| PHED 150--Introduction to Physical Education                       | 3  |
| PHED 205--Lifetime Fitness                                         | 3  |
| PHED 301--Evaluation in Health, Physical Education, and Recreation | 3  |
| PHED 315--Motor Development and Motor Learning                     | 3  |
| PHED 402--Kinesiology                                              | 3  |
| PHED 432--Physiology of Exercise                                   | 3  |
|                                                                    | 18 |

### Teacher Certification Option (P-12)

(See Teacher Education Program and Professional Experiences. Specific general education requirements additionally required for this program include HLTH 151, 1 activity course and CIS 101).

Select four of the following one-hour activity courses, with at least one individual and one team sport:

|                                                        |    |
|--------------------------------------------------------|----|
| PHED 100--Golf                                         | 4  |
| PHED 101--Tennis                                       |    |
| PHED 102--Badminton                                    |    |
| PHED 113--Soccer                                       |    |
| PHED 118--Volleyball                                   |    |
| PHED 125--Basketball Skills                            |    |
| PHED 142--Softball                                     |    |
| PHED 104--Gymnastics 1                                 | 1  |
| Select one swimming class from the following:          | 1  |
| PHED 130--Beginning Swimming                           |    |
| PHED 131--Intermediate Swimming                        |    |
| PHED 132--Lifesaving                                   |    |
| Select one dance course from the following:            | 1  |
| PHED 120--Basic Rhythms                                |    |
| PHED 121--Modern Dance                                 |    |
| PHED 122--Social Dance                                 |    |
| PHED 123--Folk and Square Dance                        |    |
| PHED 212--Games and Rhythmical Activities              | 3  |
| PHED 300--Physical Education in the Elementary School  | 3  |
| PHED 303--Physical Education in the Secondary School   | 3  |
| PHED 430--Psychosocial Dimensions of Physical Activity | 3  |
| PHED 475--Adapted Physical Education                   | 3  |
|                                                        | 22 |
| Professional Education                                 | 28 |
|                                                        | 37 |

### Suggested Sequence of Courses for Teaching P-12 Physical Education Major

#### Freshman Year

##### First Semester

|                                                               |    |
|---------------------------------------------------------------|----|
| Select four courses fulfilling General Education Requirements | 12 |
| PHED 150--Introduction to Physical Education                  | 3  |
| PHED 100--Golf;                                               |    |
| PHED 101--Tennis; or                                          |    |
| PHED 102--Badminton                                           | 1  |
| PHED 104--Gymnastics                                          | 1  |
|                                                               | 17 |

##### Second Semester

|                                                               |    |
|---------------------------------------------------------------|----|
| Select five courses fulfilling General Education Requirements | 15 |
|---------------------------------------------------------------|----|

|                                     |    |
|-------------------------------------|----|
| PHED 113--Soccer;                   |    |
| PHED 118--Volleyball;               |    |
| PHED 125--Basketball Skills; or     |    |
| PHED 142--Softball                  | 1  |
| PHED 130--Beginning Swimming;       |    |
| PHED 131--Intermediate Swimming; or |    |
| PHED 132--Life Saving               | 1  |
|                                     | 17 |

#### Sophomore Year

##### First Semester

|                                                                    |    |
|--------------------------------------------------------------------|----|
| Select three courses fulfilling General Education Requirements     | 9  |
| EDF 207--Foundation of Education                                   | 3  |
| PHED 301--Evaluation in Health, Physical Education, and Recreation | 3  |
| Minor                                                              | 3  |
|                                                                    | 18 |

##### Second Semester

|                                                     |    |
|-----------------------------------------------------|----|
| BIOL 231--Human Anatomy                             | 3  |
| EDF 211--Human Growth and Development               | 3  |
| PHED 212--Games and Rhythms for Elementary Teachers | 3  |
| PHED 120--Basic Rhythms;                            |    |
| PHED 121--Modern Dance;                             |    |
| PHED 122--Social Dance; or                          |    |
| PHED 123--Folk and Square Dancing                   | 1  |
| PHED 100--Golf;                                     |    |
| PHED 101--Tennis;                                   |    |
| PHED 102--Badminton;                                |    |
| PHED 113--Soccer;                                   |    |
| PHED 118--Volleyball;                               |    |
| PHED 125--Basketball Skills;                        |    |
| PHED 142--Softball                                  | 1  |
| Minor                                               | 3  |
|                                                     | 17 |

#### Junior Year

##### First Semester

|                                                             |    |
|-------------------------------------------------------------|----|
| Select one course fulfilling General Education Requirements | 3  |
| BIOL 232--Human Physiology                                  | 3  |
| EDF 311--Learning Theories in the Classroom                 | 3  |
| PHED 315--Motor Development and Motor Learning              | 3  |
| PHED 300--Physical Education in the Elementary School       | 3  |
| PHED 205--Lifetime Fitness                                  | 3  |
| PHED 100--Golf;                                             |    |
| PHED 101--Tennis;                                           |    |
| PHED 102--Badminton;                                        |    |
| PHED 113--Soccer;                                           |    |
| PHED 118--Volleyball;                                       |    |
| PHED 125--Basketball Skills; or                             |    |
| PHED 142--Softball                                          | 1  |
|                                                             | 18 |

##### Second Semester

|                                                      |    |
|------------------------------------------------------|----|
| EDSE 312--Teaching Skills and Media                  | 3  |
| PHED 402--Kinesiology                                | 3  |
| PHED 303--Physical Education in the Secondary School | 3  |
| PHED 475--Adapted Physical Education                 | 3  |
| Minor                                                | 6  |
|                                                      | 18 |

#### Senior Year

##### First Semester

|                                                                  |    |
|------------------------------------------------------------------|----|
| EDSP 332--Teaching the Exceptional Student                       | 2  |
| PHED 432--Physiology of Exercise                                 | 3  |
| PHED 430--Psychosocial Dimensions of Sport and Physical Activity | 3  |
| PHED 499C--Senior Seminar                                        | 1  |
| Minor                                                            | 9  |
|                                                                  | 18 |

##### Second Semester

|                                      |    |
|--------------------------------------|----|
| EDSE 499C--Teacher in Today's School | 2  |
| EDSE 416--Student Teaching           | 12 |
|                                      | 14 |

## Exercise Science Option

### Competencies Required in the Program

#### Students will demonstrate:

1. Knowledge and understanding of the biological and applied sciences which lay the foundation for this area of study.
2. Knowledge of and ability to measure and assess physical wellness.
3. Ability to design, support and evaluate individuals in fulfilling programs designed to promote improved wellness.
4. Ability to develop, teach and assess exercise skills and activities.
5. Ability to develop, promote, administer and evaluate a variety of wellness programs.
6. Knowledge of wellness programs for all populations.

#### Assessment Procedures

Portfolios  
Certification Examination  
Employment data

#### Program Requirements

|                                                   |    |
|---------------------------------------------------|----|
| HLTH 206--Principles of Nutrition                 | 3  |
| HLTH 310--Health Promotion and Risk Reduction     | 3  |
| PHED 332--Principles of Strength and Conditioning | 3  |
| PHED 326--Exercise Program Leadership             | 3  |
| PHED 550--Plan and Managing Exercise Programs     | 3  |
| PHED 551--Exercise Testing and Prescription       | 3  |
| PHED 552--Exercise Practicum                      | 6  |
| PHED 499C--Senior Seminar                         | 1  |
|                                                   | 24 |

## Suggested Sequences of Courses for Physical Education - Exercise Science Option

### Freshman Year

#### First Semester

|                                                               |    |
|---------------------------------------------------------------|----|
| Select four classes fulfilling General Education Requirements | 12 |
| PHED 150--Introduction to Physical Education                  | 3  |
|                                                               | 15 |

#### Second Semester

|                                                               |    |
|---------------------------------------------------------------|----|
| Select four classes fulfilling General Education Requirements | 12 |
| PHED 205--Lifetime Fitness                                    | 3  |
|                                                               | 15 |

### Sophomore Year

#### First Semester

|                                                                                    |    |
|------------------------------------------------------------------------------------|----|
| Select two courses fulfilling General Education Requirements (PSY 154 and SOC 101) | 6  |
| BIOL 231--Human Anatomy                                                            | 3  |
| MNGT 160--Introduction to Business                                                 | 3  |
| HLTH 203--Safety and First Aid                                                     | 3  |
| Minor                                                                              | 3  |
|                                                                                    | 18 |

#### Second Semester

|                                       |    |
|---------------------------------------|----|
| CIS 101--Computers for Learning       | 3  |
| PHED 326--Exercise Program Leadership | 3  |
| Minor                                 | 3  |
| HLTH 206--Principles of Nutrition     | 3  |
| BIOL 232--Human Physiology            | 3  |
|                                       | 15 |

### Junior Year

#### First Semester

|                                                   |    |
|---------------------------------------------------|----|
| HLTH 310--Health and Wellness Promotion           | 3  |
| PHED 315--Motor Development and Motor Learning    | 3  |
| PHED 332--Principles of Strength and Conditioning | 3  |
| Elective                                          | 3  |
| Minor                                             | 3  |
|                                                   | 18 |

#### Second Semester

|                                                                    |    |
|--------------------------------------------------------------------|----|
| SPCH 370--Business and Professional Speech                         | 3  |
| PHED 301--Evaluation in Health, Physical Education, and Recreation | 3  |
| PHED 402--Kinesiology                                              | 3  |
| Minor                                                              | 6  |
|                                                                    | 15 |

### Senior Year

#### First Semester

|                                                   |    |
|---------------------------------------------------|----|
| PHED 432--Physiology of Exercise                  | 3  |
| PHED 550--Planning and Managing Exercise Programs | 3  |
| Minor                                             | 9  |
|                                                   | 15 |

#### Second Semester

|                                             |    |
|---------------------------------------------|----|
| PHED 551--Exercise Testing and Prescription | 3  |
| PHED 552--Exercise Program Practicum        | 6  |
| Minor or elective                           | 6  |
| PHED 499C--Senior Seminar                   | 1  |
|                                             | 16 |

## Recreation

Faculty--W. Kerr, R. Overton, J. Sheltmire (Chair)

### Competencies Required in the Program

#### Students are to:

1. Communicate effectively.
2. Understand and apply technology.
3. Develop and apply organizational and administrative skills.
4. Develop and apply critical thinking and problem solving skills.
5. Understand and program for the recreational needs of all populations.
6. Interpret and assess current trends in the delivery of leisure services.
7. Possess the knowledge and understanding necessary to become licensed as a recreational professional.

#### Assessment Procedures

Certification examinations

## Bachelor of Arts

### Major

|                                       |   |
|---------------------------------------|---|
| REC 201--Outdoor Recreation           | 3 |
| REC 209--Recreational Sports          | 2 |
| REC 285--Community Recreation         | 2 |
| REC 286--Recreational Leadership      | 2 |
| REC 288--Recreational Arts and Crafts | 2 |
| REC 290--Field Experience I           | 1 |
| REC 305--Social Recreation            | 2 |

|                                            |    |
|--------------------------------------------|----|
| REC 310--Youth Organizations               | 2  |
| REC 375--Creative Dramatics                | 3  |
| REC 388--Community Centers and Playgrounds | 3  |
| REC 490--Field Experience II               | 1  |
| REC 471--Seminar                           | 1  |
| REC 475--Therapeutic Recreation            | 3  |
| REC 477--Recreation Internship             | 8  |
| REC 580--Outdoor Interpretation            | 3  |
|                                            | 38 |

## Minor

The minor requires 21 hours approved by the HPER department chair.

## Department of Military Science

Lieutenant Colonel Brian Crotts, Chair  
(606) 783-2050  
Button Auditorium

## Military Science

**Faculty**--Major S. Erdo, Master Sergeant R. Daniel,  
Sergeant E. High

### Competencies Required in the Program

1. *Medically qualified men and women must meet the precommissioning requirements as established by Headquarters, Department of the Army. Those personnel completing the program will receive a commission as a Second Lieutenant in the U.S. Army, U.S. Army Reserves, or the National Guard.*
2. *Baccalaureate degrees will vary among graduates, but all personnel must meet Military Science requirements and those of their academic major.*

### Assessment Procedures

#### *Military Qualifications Standard I*

## Army ROTC

Army ROTC is a program that provides college-trained officers for the U.S. Army, the Army National Guard, and the U.S. Army Reserve. Army ROTC is traditionally a four-year program consisting of basic and advanced courses. However, a two-year program is offered that enables junior and community college students and others who missed ROTC during their first two years at MSU to qualify for a commission.

The four year program is divided into two phases, the basic course and the advanced course.

The basic course begins the leadership development process. It is designed to acquaint students

with the Army and introduce fundamental individual skills. Training is intended to attract students and build commitment toward a lifetime of officer service.

Students must be of high moral character and meet required medical, aptitude, and GPA requirements before enrollment in the advanced course. In addition, they must sign an agreement to fulfill a military service requirement in either the Reserves or active Army.

All advanced course ROTC students are paid \$150.00 per month, tax-free, during the school year. Students qualifying for the advanced course may belong to a USAR or NG unit under the Simultaneous Membership Program (SMP) and receive pay for both ROTC and their unit. Additional drill pay under this program is no less than SGT E-5 pay.

All advanced course students attend a six-week leadership practicum the summer between their last two years of ROTC and are paid half the pay of a second lieutenant, plus an additional \$200 and \$250 summer vacation pay.

Those students who desire to enter active duty are obligated to serve for three years, except scholarship students and Regular Army selectees who must serve for four years.

Students choosing a reserve component option must request a Guaranteed Reserve Forces Duty (GRFD) contract upon entering the advanced ROTC program. Students selecting this option serve on active duty for approximately three months, followed by eight years with a USAR or NG unit. Students who have taken junior ROTC or have active/reserve duty experience may receive credit for all or part of the basic course.

## Two-Year Program

The two-year program is designed for transfer students and MSU students who wish to earn a commission as an Army officer but did not participate in the four-year program. Students desiring to participate in the two-year program must gain credit for basic military service courses. Qualified veterans and USAR and NG personnel can be given up to four hours of credit, thereby qualifying for immediate placement in the advanced course. College freshmen and sophomores, or other students with at least two years remaining in college, may gain credit for basic military science courses by completing a six-week ROTC leadership practicum at Fort Knox, Kentucky, conducted during the summer.

## Scholarships

Two-, three-, and four-year scholarships are available which cover tuition, fees and laboratory expenses up to \$5,000 and \$450 for books and supplies. A \$150-per-month, tax free subsistence allowance is also paid to each scholarship student during the regular school year.

Students must apply for four-year scholarships prior to November 15 of their senior year of high school. Students at Morehead State may apply for a three- or two-

year scholarship. For more information on scholarships, contact the Department of Military Science.

**NOTE:** Books for all military science classes are furnished by the department.

Army ROTC instruction increases the opportunities for college students by expanding their experiences while in college and by giving them options and potential for either a civilian or military career. Additional information on Army ROTC may be obtained from any member of the Military Science Department, Morehead State University, Room 306, Button Auditorium, or by calling (606)783-2050.

Additionally, students working to obtain a commission must complete a Professional Military Educational Requirement. Approved courses to complete this requirement are listed below. One course from each of the following categories must be completed with a "C" or above.

**NOTE:** There is only one approved Military History Course and it is offered only in the spring semester. Exceptions/substitutions to any of these courses must be approved in writing by the professor of Military Science or his designated representative.

### Written Communication

|                                            |   |
|--------------------------------------------|---|
| ENG 100--Writing I                         | 3 |
| ENG 192--Technical Composition             | 3 |
| ENG 391--Advanced Expository Writing       | 3 |
| ENG 503--Teaching Writing                  | 3 |
| ENG 591--Technical Writing I               | 3 |
| ENG 592--Technical Writing II              | 3 |
| CMJN 201--News Writing and Reporting       | 3 |
| CMEM 341--Writing for the Electronic Media | 3 |
| PHIL 306--Logic                            | 3 |

### Military History

|                                    |   |
|------------------------------------|---|
| HIS 318--American Military History |   |
| Spring Semester Only               | 3 |

### Alternate History Options Only with PMS approval

|                                          |   |
|------------------------------------------|---|
| HIS 307--Vietnam and Watergate           | 3 |
| HIS 317--United States Foreign Relations | 3 |
| HIS 361--The World, 1939 to Present      | 3 |

### Computer Literacy

|                                                      |   |
|------------------------------------------------------|---|
| CIS 101--Computers for Learning                      | 3 |
| CIS 202--Computer Programming Basic                  | 3 |
| CIS 203--Pascal Programming for Business and Service | 3 |
| CIS 210--Computer Programming Assembler              | 3 |
| CIS 215--Computer Programming COBOL I                | 3 |
| CIS 216--Programming in PL/I                         | 3 |
| CIS 260--FORTRAN Programming I                       | 3 |
| CIS 211--Microcomputers                              | 3 |
| CIS 315--Structured Programming COBOL II             | 3 |
| CIS 316--Advanced PL/I Programming                   | 3 |

### Minor

\*6 to 8 credit hours from the following MS courses denoted by an asterisk (\*). All other MS courses are required . . . . 6-8

|                                                                                  |   |
|----------------------------------------------------------------------------------|---|
| *MS 101--Introduction to Military Science; and<br>MS 101A--Leadership Laboratory | 3 |
| *MS 102--Introduction to Leadership; and<br>MS 102A--Leadership Laboratory       | 3 |
| *MS 201--Self/Team Development; and<br>MS 201A--Leadership Laboratory            | 3 |
| *MS 202--Individual/Team Military Tactics; and                                   |   |

|                                                                                                                                        |    |
|----------------------------------------------------------------------------------------------------------------------------------------|----|
| MS 202A--Leadership Laboratory                                                                                                         | 3  |
| MS 301--Leading Small Organizations I; and<br>MS 301A--Advanced Leadership Laboratory                                                  | 3  |
| MS 302--Leading Small Organizations II; and<br>MS 302A--Advanced Leadership Laboratory                                                 | 3  |
| MS 401--Leadership Challenges and Goal Setting; and<br>MS 401A--Advanced Leadership Laboratory                                         | 3  |
| MS 402--Transition to Lieutenant; and<br>MS 402A--Advanced Leadership Laboratory                                                       | 3  |
| Electives of particular interest and value to military science as approved<br>by military science advisor (300 level courses or above) | 6  |
| Minimum for minor                                                                                                                      | 24 |

*\*Placement credit for these courses may be given to veterans, graduates of college level ROTC summer programs, and participants in high school level ROTC programs.*

The following criteria must be met by all students in order to minor in military science:

1. Acceptance into the advanced course.
2. A cumulative grade-point average of 2.0 or better.
3. A grade-point average of 2.0 or better in the major field or area of concentration.
4. A grade-point average of 3.0 or better in military science.

The above standards may be waived, providing the cadet has a cumulative grade-point average of 2.25 or better, with the approval of a board consisting of the Professor of Military Science, the Dean of the College of Education and Behavioral Sciences, and an MS IV cadet who has the rank of cadet major or above.

## Department of Psychology

Bruce Mattingly, Interim Chair  
(606) 783-2981  
601 Ginger Hall

## Psychology

**Faculty**--C. Bruening, D. Budd, L. Couch, L. Haller, B. Mattingly, C. Morgan, D. Olson

### Competencies Required in the Program

*Students should:*

1. Understand the complexity of human and animal behavior and the various factors and theories used to explain its occurrence.
2. Demonstrate competence in statistical reasoning and inference.
3. Demonstrate ability to critically evaluate basic and applied research in psychology.
4. Know the principal tenets and major theoretical characteristics of the major systems in psychology.

5. *Develop an awareness of the relationship and influences of selected biopsychological principles on behavior.*
6. *Understand major developmental principles and their relationship to human behavior.*
7. *Understand human behavior from an interpersonal and/or intrapersonal standpoint.*
8. *Know the basic learning processes involved in the acquisition and maintenance of behavior.*

#### **Additional Competencies for Area of Concentration in Psychology**

1. *Understand basic principles relating to individual differences, including normal developmental processes and personality.*
2. *Demonstrate an awareness of ethical and legal issues in psychological research and psychological applications that are involved in the utilization of psychological evaluation and treatment methods.*
3. *Know the psychometric and utilization characteristics of selected level A and B (APA classification) tests.*
4. *Demonstrate an awareness and/or understanding of major theoretical systems in counseling and psychotherapy.*
5. *Demonstrate entry level skills in specialized methods of psychotherapy.*
6. *Demonstrate an awareness and/or understanding of basic principles of selected content areas in psychology; i.e., industrial, social, etc.*
7. *Demonstrate within a supervised clinical field experience entry level evaluative and/or therapeutic skills for working with selected clientele in a human service setting under professional supervision.*

#### **Assessment Procedures**

*Exit examination*

### **Bachelor of Arts**

The Department of Psychology offers a traditional liberal arts major and minor and an area of concentration which does not require electing a minor or second major. The area of concentration has a specialization core which is designed to train individuals at the baccalaureate level to function as direct service providers in various clinical settings.

#### **Area**

|                                              |    |
|----------------------------------------------|----|
| PSY 154--Introduction to Psychology          | 3  |
| PSY 381--Experimental Psychology I           | 3  |
| PSY 499C--Systems and Theories of Psychology | 3  |
| Statistics (Select from the following)       | 3  |
| MATH 353--Statistics; or                     |    |
| MATH 354--Business Statistics; or            |    |
| EDSP 581--Educational Statistics             |    |
| Selected from the following                  | 30 |
| PSY 156--Life-span Developmental Psychology  | 3  |
| PSY 157--Psychology of Adjustment            | 3  |

|                                                                                   |     |
|-----------------------------------------------------------------------------------|-----|
| PSY 353--Industrial Psychology                                                    | 3   |
| PSY 354--Introduction to Social Psychology                                        | 3   |
| PSY 358--Psychological Testing                                                    | 3   |
| PSY 359--Applied Behavior Analysis                                                | 3   |
| PSY 390--Psychology of Personality                                                | 3   |
| PSY 421--Physiological Psychology                                                 | 3   |
| PSY 456--Introduction to Clinical Psychology                                      | 3   |
| PSY 465--Introduction to Psychopharmacology                                       | 3   |
| PSY 469--Counseling Psychology                                                    | 3   |
| PSY 471--Addiction Therapies                                                      | 3   |
| PSY 472--Practicum                                                                | 3-6 |
| PSY 586--Motivation                                                               | 3   |
| PSY 590--Abnormal Psychology                                                      | 3   |
| Electives (selected from courses not elected above or from the following courses) | 12  |
| PSY 199--Workshop                                                                 | 1-3 |
| PSY 276--Independent Study                                                        | 1-3 |
| PSY 356--Cognitive Development of the Infant and Child                            | 3   |
| PSY 399--Workshop                                                                 | 1-3 |
| PSY 422--Comparative Psychology                                                   | 3   |
| PSY 470--Research Problems                                                        | 1-3 |
| PSY 554--Seminar in Social Psychology                                             | 3   |
| PSY 555--Environmental Psychology                                                 | 3   |
| PSY 576--Selected Topics                                                          | 3-6 |
| PSY 582--Experimental Psychology II                                               | 3   |
| PSY 583--Sensory Psychology                                                       | 3   |
| PSY 584--Perception                                                               | 3   |
| PSY 589--Psychology of Learning                                                   | 3   |
| PSY 599--Workshop                                                                 | 1-3 |

#### **Major**

|                                                                                              |     |
|----------------------------------------------------------------------------------------------|-----|
| PSY 154--Introduction to Psychology                                                          | 3   |
| PSY 381--Experimental Psychology I                                                           | 3   |
| PSY 499C--Systems and Theories of Psychology                                                 | 3   |
| MATH 353--Statistics; or                                                                     |     |
| MATH 354--Business Statistics; or                                                            |     |
| EDSP 581--Educational Statistics                                                             | 3   |
| Selected from the following categories:                                                      |     |
| Biopsychology                                                                                | 3   |
| PSY 421--Physiological Psychology; or                                                        |     |
| PSY 583--Sensory Psychology                                                                  |     |
| Developmental                                                                                | 3   |
| PSY 156--Life-span Developmental Psychology                                                  |     |
| Experimental                                                                                 | 3   |
| PSY 554--Seminar in Social Psychology; or                                                    |     |
| PSY 576--Seminar in Developmental Psychology;                                                |     |
| PSY 582--Experimental Psychology II; or                                                      |     |
| PSY 584--Perception                                                                          |     |
| Learning and Motivation                                                                      | 3   |
| PSY 359--Applied Behavior Analysis; or                                                       |     |
| PSY 586--Motivation; or                                                                      |     |
| PSY 589--Psychology of Learning                                                              |     |
| Social and Personality                                                                       | 3   |
| PSY 354--Introduction to Social Psychology; or                                               |     |
| PSY 390--Psychology of Personality; or                                                       |     |
| PSY 456--Introduction to Clinical Psychology; or                                             |     |
| PSY 555--Environmental Psychology; or                                                        |     |
| PSY 590--Abnormal Psychology                                                                 |     |
| Elective (selected from courses not used as required courses, or from the following courses) | 9   |
| PSY 157--Psychology of Adjustment                                                            | 3   |
| PSY 199--Workshop                                                                            | 1-3 |
| PSY 276--Independent Study                                                                   | 1-3 |
| PSY 353--Industrial Psychology                                                               | 3   |
| PSY 356--Cognitive Development of the Infant and Child                                       | 3   |
| PSY 358--Psychological Testing                                                               | 3   |
| PSY 422--Comparative Psychology                                                              | 3   |
| PSY 465--Introduction to Psychopharmacology                                                  | 3   |
| PSY 469--Counseling Psychology                                                               | 3   |

|                                  |     |
|----------------------------------|-----|
| PSY 470--Research Problems ..... | 3   |
| PSY 575--Selected Topics .....   | 1-3 |
| PSY 599--Workshop .....          | 1-3 |
|                                  | 36  |

## Minor

|                                           |    |
|-------------------------------------------|----|
| PSY 154--Introduction to Psychology ..... | 3  |
| MATH 353--Statistics; or                  |    |
| MATH 354--Business Statistics; or         |    |
| EDSP 581--Educational Statistics .....    | 3  |
| Psychology electives .....                | 18 |
|                                           | 24 |

## Department of Sociology, Social Work and Criminology

David Rudy, Chair  
(606) 783-2656  
347 Rader Hall

## Social Work

**Faculty**--R. Blair, J. Lott, T. Marshall, W. Martin, S. Rolland,  
S. Scharf, M. Seelig, J. Stafford (Coordinator), S. Swank

### Competencies Required in the Program

#### Students will:

1. Understand the breadth and scope of the social work profession.
2. Understand both the evolution of the institution of Social Welfare and the role of the profession of social work within it.
3. Understand cardinal values of the profession, how they are incorporated into a Code of Ethics, and how they apply to ethical dilemmas faced by professional social workers.
4. Understand social work's person-in-environment focus as it applies to changing needs of individuals, groups, families, organizations, and communities in various stages of development.
5. Understand and be able to apply a generalist problem-solving process based upon General Systems Theory to various-sized client systems in all practice areas.
6. Understand legislative, judicial, administrative, and other political processes as they affect social welfare policy and social programs.
7. Learn methods for monitoring and evaluating their own day-to-day practice.
8. Obtain practical experience in working with individuals, groups, families, organizations, and communities as a primary part of their undergraduate education.
9. Have a broad understanding of the human condition and an appreciation of racial, religious,

*gender-based, ethnic, and gay/lesbian issues related to difference and oppression.*

### Assessment Procedures

*Surveys of graduates*

## Bachelor of Social Work

Social Work is a human service profession that meets the needs of society in several areas, including gerontology, health care, mental retardation, child welfare, correctional rehabilitation, mental health, income maintenance, home health, hospice, domestic violence, homelessness and alcoholism/substance abuse. The BSW program is fully accredited by the Council on Social Work Education. Prepares students as generalist practitioners for entry level professional practice with individuals, marital couples, families, small groups, organizations, and entire communities.

### Admission Requirements and Procedures

The Bachelor of Social Work (BSW) program has a selective admission procedure. Enrollment in the program is limited. In the event there are more qualified applicants than available positions, the top qualified 30-35 students will be admitted Fall and Spring semesters.

### Application Procedure

1. Be unconditionally admitted to Morehead State University through the University's Office of Admissions.
2. Declare social work as an area of concentration.
  - A. Meet with assigned social work faculty advisor.
  - B. Obtain and complete the application and checksheet and obtain two references: one from a social work faculty member other than the student's advisor, and one from a non-social work faculty member.
  - C. File the application, transcript, checksheet and autobiographical sketch with advisor one week prior to the interview with the faculty advisor.
3. Social Work Faculty Committee will meet to discuss each application, after all material has been handed in and the Screen-in interview with the advisor is completed.

### Admission Criteria

The Bachelor of Social Work Program has a limited enrollment. The top 30-35 qualified students will be accepted each fall and spring semester. Applicants to the BSW program are selected based upon the following criteria:

1. Completion of 64 credit hours of the required pre-social work courses as listed on the curriculum sequence;

2. Completion of or being enrolled in SWK 210: Orientation to Social Work, SWK 230: Social Welfare History and Ethics, SWK 322: Human Behavior in the Social Environment, and SWK 450: Research Methodology; and
3. Achievement of an overall GPA of 2.5 and grade of "C" or above in all Social Work Core courses.

### Program Requirements

|                                                   |    |
|---------------------------------------------------|----|
| SWK 210--Orientation to Social Work               | 4  |
| SWK 230--Social Welfare History and Ethics        | 3  |
| SWK 322--Human Behavior in the Social Environment | 3  |
| SWK 325--Social Work Theory and Method            | 3  |
| SWK 424--Social Work Practice Skills I            | 3  |
| SWK 426--Social Work Practice Skills II           | 3  |
| SWK 430--Social Policy and Planning               | 3  |
| SWK 450--Research Methodology                     | 3  |
| SWK 451--Social Science Data Analysis             | 3  |
| SWK 497--Practicum in Social Work                 | 8  |
| SWK 498--Social Work Practice Skills III          | 3  |
| SWK 499C--Senior Seminar                          | 1  |
| Social Work Electives                             | 6  |
| SOC 101--General Sociology                        | 3  |
| SOC 203--Contemporary Social Problems             | 3  |
| SOC 354--Individual and Society                   | 3  |
| SOC 374--American Minority Relations              | 3  |
| BIOL 105--Introduction to Biological Sciences; or |    |
| BIOL 155--Population, Resources, the Environment  | 3  |
| MATH 131--General Mathematics (preferred)         | 3  |
| GOVT 141--U.S. Government; or                     |    |
| GOVT 242--State and Local Government              | 3  |
| PSY 154--Introduction to Psychology               | 3  |
| PHIL 200--Introduction to Philosophy; or          |    |
| PHIL 303--Social Ethics                           | 3  |
| ECON 201--Principles of Economics I               | 3  |
| GOVT 322--Courts and Civil Liberties              | 3  |
| ENG 390--Professional Writing                     | 3  |
| PSY 590--Abnormal Psychology; or                  |    |
| PSY 390--Personalities                            | 3  |
| General Electives                                 | 22 |

### Recommended Course Sequence

#### Freshman Year

##### First Semester

|                                      |    |
|--------------------------------------|----|
| ENG 100--Writing I                   | 3  |
| *PSY 154--Introduction to Psychology | 3  |
| *SOC 101--General Sociology          | 3  |
| HLTH 203--Safety and First Aid       | 3  |
| Physical Science                     | 3  |
|                                      | 15 |

##### Second Semester

|                                                     |    |
|-----------------------------------------------------|----|
| ENG 200--Writing II                                 | 3  |
| *BIOL 105--Introduction to Biological Sciences; or  |    |
| BIOL 155--Population, Resources and the Environment | 3  |
| SOC 203--Contemporary Social Problems               | 3  |
| MATH 123--Introduction to Statistics; or higher     | 3  |
| General Electives                                   | 3  |
|                                                     | 15 |

#### Sophomore Year

##### First Semester

|                                           |   |
|-------------------------------------------|---|
| SWK 210--Orientation to Social Work       | 4 |
| General Education Area Studies Humanities | 3 |
| *GOVT 141--United States Government; or   |   |
| GOVT 242--State and Local Government      | 3 |
| *PHIL 200--Introduction to Philosophy; or |   |

|                         |    |
|-------------------------|----|
| PHIL 303--Social Ethics | 3  |
| General Electives       | 3  |
|                         | 16 |

##### Second Semester

|                                                 |    |
|-------------------------------------------------|----|
| **SWK 230--Social Welfare History and Ethics    | 3  |
| SPCH 108--Fundamentals of Speech Communications | 3  |
| SOC 354--The Individual and Society             | 3  |
| *ECON 201--Principles of Economics I            | 3  |
| General Education (Humanities)                  | 3  |
| General Electives                               | 3  |
|                                                 | 18 |

#### Junior Year

##### First Semester

|                                                     |    |
|-----------------------------------------------------|----|
| **SWK 322--Human Behavior in the Social Environment | 3  |
| **SWK 450--Research Methodology                     | 3  |
| PSY 390--Psychology of Personality; or              |    |
| PSY 590--Abnormal Psychology                        | 3  |
| GOVT 322--Courts and Civil Liberties                | 3  |
| General Electives                                   | 6  |
|                                                     | 18 |

##### Second Semester

|                                          |    |
|------------------------------------------|----|
| **SWK 325--Social Work Theory and Method | 3  |
| **SWK 451--Social Science Data Analysis  | 3  |
| ENG 390--Professional Writing            | 3  |
| SOC 374--American Minority Relations     | 3  |
| Social Work Electives                    | 3  |
| General Electives                        | 3  |
|                                          | 18 |

#### Senior Year

##### First Semester

|                                           |    |
|-------------------------------------------|----|
| **SWK 424--Social Work Practice Skills I  | 3  |
| **SWK 426--Social Work Practice Skills II | 3  |
| **SWK 430--Social Policy and Planning     | 3  |
| SWK Electives                             | 3  |
| General Electives                         | 4  |
|                                           | 16 |

##### Second Semester

|                                            |     |
|--------------------------------------------|-----|
| **SWK 497--Practicum in Social Work        | 8   |
| **SWK 498--Social Work Practice Skills III | 3   |
| **SWK 499C--Senior Seminar                 | 1   |
|                                            | 12  |
|                                            | 128 |

\*Denotes Specific General Education Requirements mandated for BSW Students.

\*\*Denotes Core Social Work Course requiring a grade of "C" or higher.

### Minor

The minor in social work provides majors in related fields, an understanding of the social work profession, an introduction to basic practice skills, and an opportunity to gain actual experience in a field setting.

|                                             |    |
|---------------------------------------------|----|
| SWK 210--Orientation to Social Work         | 4  |
| SWK 230--Social Welfare History and Ethics  | 3  |
| SWK 310--Field Experiences in Social Work   | 3  |
| SWK 333--Beginning Helping Skills for Human |    |
| Service Professionals                       | 3  |
| SWK electives                               | 9  |
|                                             | 22 |

## Sociology

**Faculty**--P. Becker, E. Breschel, R. Bylund, C. Hardesty, R. Katz, T. Marshall, H. Potter, E. Reeves, D. Rudy (Chair), Y. Scott, E. Swank, S. Tallichet, A. Wheeler

### Competencies Required in the Sociology Program

*Students will:*

1. *Develop a working knowledge of the general concepts of sociological analysis, including exposure to selected substantive areas of sociology.*
2. *Learn skills in sociological research including research design, data analysis, report writing, and computer literacy.*
3. *Establish reasoning skills and writing abilities so that they can apply sociological principles to their occupational roles.*
4. *Develop the ability to understand themselves and their society from a general liberal tradition.*
5. *Develop applied skills through practicum experiences.*

### Competencies Required in the Sociology - Criminology Emphasis Program

*Students will develop:*

1. *A working knowledge of the general concepts of sociological analysis, including exposure to selected substantive areas of sociology.*
2. *Skills in sociological research and reasoning including research design, data analysis, report writing, and computer literacy.*
3. *Basic interviewing, counseling, and relationship skills required of criminal justice professionals.*
4. *Reasoning skills and writing abilities so that they can apply sociological principles to criminal justice roles.*
5. *Applied skills through practicum experiences.*

### Assessment Procedures:

*Pre- and post examinations required of all majors*  
*Survey of graduates*  
*Senior seminar*

Sociology programs provide students with broad critical and analytical skills that can be applied on the individual, organizational, and societal levels. Combined with other skills and courses, a sociology major can prepare for careers in human service, planning, criminal justice, personnel, public relations, and more.

Sociology majors seeking teacher certification must also present a teaching minor. See "Teacher Education Program" and "Professional Experiences" requirements.

## Program Standards

Students must earn a grade of "C" or higher in all required courses in the Sociology and Sociology (Criminology) majors and in the Sociology and Criminology minors.

In order to successfully complete the Sociology and Sociology (Criminology) majors as well as the Sociology and Criminology minors students must earn a cumulative G.P.A. of 2.25 in all courses included in these respective programs.

## Bachelor of Arts in Sociology

### Major

|                                                                        |    |
|------------------------------------------------------------------------|----|
| SOC 101--General Sociology                                             | 3  |
| SOC 305--Cultural Anthropology                                         | 3  |
| SOC 405--Sociological Theory                                           | 3  |
| SOC 450--Research Methodology                                          | 3  |
| SOC 451--Social Science Data Analysis                                  | 3  |
| SOC 460--Senior Seminar                                                | 3  |
| SOC--electives of which 12 sem. hrs. must be on the 300 level or above | 15 |
|                                                                        | 33 |

### Minor

|                                       |    |
|---------------------------------------|----|
| SOC 101--General Sociology            | 3  |
| SOC 203--Contemporary Social Problems | 3  |
| SOC 405--Sociological Theory          | 3  |
| SOC 450--Research Methodology         | 3  |
| SOC--electives 300 level or above     | 12 |
|                                       | 24 |

## Emphasis in Criminology

The Criminology Program, including sociology with a criminology emphasis, prepares students for a wide range of career opportunities in local, state, and federal criminal justice agencies. Specific examples include: correctional officer, probation and parole officer, counselor, case manager, police officer, youth officer, and others. (See additional program standards under Sociology.)

|                                                                                                              |    |
|--------------------------------------------------------------------------------------------------------------|----|
| SOC 101--General Sociology                                                                                   | 3  |
| SOC 374--American Minority Relations                                                                         | 3  |
| SOC 405--Sociological Theory                                                                                 | 3  |
| SOC 450--Research Methodology                                                                                | 3  |
| SOC 451--Social Science Data Analysis                                                                        | 3  |
| SWK 333--Beginning Skills for Human Service Professionals; or (if Social Work Minor) Correctional Counseling | 3  |
| CRIM 210--The Sociology of Deviance                                                                          | 3  |
| CRIM 401--Criminology                                                                                        | 3  |
| CRIM 420--Seminar in Criminal Behavior                                                                       | 3  |
| CRIM 490--Practicum in Criminology                                                                           | 5  |
| CRIM 491--Senior Seminar                                                                                     | 1  |
| CRIM Electives                                                                                               | 3  |
|                                                                                                              | 36 |

## Minor in Criminology

|                                                           |    |
|-----------------------------------------------------------|----|
| CRIM 210--Sociology of Deviance                           | 3  |
| CRIM 420--Seminar in Criminal Behavior                    | 3  |
| SWK 333--Beginning Skills for Human Service Professionals | 3  |
| Advanced electives in criminology                         | 15 |
|                                                           | 24 |

## Caudill College of Humanities

Lemuel Berry, Jr. (Dean)

(606)783-2650

212 Rader Hall

Department of Art

Department of Communications

Department of English, Foreign Languages, and Philosophy

Department of Geography, Government, and History

Department of Music



# Caudill College of Humanities

## Programs

### Department of Art

AB - Art

### Department of Communications

AB - Communications with options:  
Advertising-Public Relations  
Electronic Media Production and Management  
Electronic Media News  
Journalism  
AB - Speech  
AB - Theatre

### Department of English, Foreign Languages, and Philosophy

AB - English  
AB - French  
AB - Spanish  
AB - Philosophy

### Department of Geography, Government, and History

AB - Geography  
AB - Government  
AB - History  
AB - Paralegal Studies  
AB - Social Studies

### Department of Music

BME - Music Education  
BM - Music Performance  
AB - Music

## Department of Art

Robert Franzini, Chair  
(606) 783-2193  
211 Claypool-Young Art Building

## Art

**Faculty**--D. Bartlett, D. Ferrell, R. Franzini (Chair), D. Golding,  
J. Gritton, E. Mesa-Gaido, G. Mesa-Gaido, S. Tirone

### Competencies Required in the Program

Students will be able to:

1. Understand and skillfully apply various media, techniques and technology in the production and presentation of art work.
2. Use knowledge of visual characteristics and purposes of art to effectively convey their ideas.
3. Choose and evaluate a range of subject matter, symbols, and ideas as content for works of art (to communicate meaning).
4. Understand the visual arts in relation to history and cultures.
5. Reflect upon and assess the characteristics and merits of their work and the work of others.
6. Make connections between the visual arts and other disciplines.
7. Communicate about art effectively in written and oral form.

### Assessment Procedures

*Sophomore exhibit of four to six works evaluated by faculty.*

*Senior exhibit of four to six works evaluated by faculty.*

*PRAXIS exam for Art Teacher Certification students.*

*Graduating Student Survey - completed within the Senior Capstone course.*

*Alumni and Alumni Employer survey.*

## Bachelor of Arts

The Department of Art offers programs in art education, art history, and studio art. Courses in the beginning, intermediate, and advanced levels are available in art education, art history, ceramics, computer art, drawing, graphic design, painting, photography, printmaking, and sculpture.

### Program Requirements

2.50 cumulative grade point average in art courses at end of sophomore year.

2.75 cumulative grade point average in art courses at graduation.

Sophomore exhibit of four to six works.

Senior exhibit of four to six works.

Senior resumes and slide portfolio.

Viewing of art exhibitions outside the Morehead Area.

*Transfer students must comply with the intent of these requirements on an individually evaluated basis.*

### General Education Requirements . . . . . 48

(See general education requirements for the University.) The following courses are required General Education courses for students in the Area of Concentration and the Major in Art:

ART 109--Introduction to the Computer in the Visual Arts 3  
ART 499C--Visual Art Capstone . . . . . 3

### Art Major

|                                                              | Sem. Hrs. |
|--------------------------------------------------------------|-----------|
| ART 101--Two Dimensional Foundation . . . . .                | 3         |
| ART 102--Three Dimensional Foundation . . . . .              | 3         |
| ART 103--Color Foundation . . . . .                          | 3         |
| ART 204--Drawing I . . . . .                                 | 3         |
| ART 214--Painting Techniques I . . . . .                     | 3         |
| Elect two of three . . . . .                                 | 6         |
| ART 263--Art History I                                       |           |
| ART 264--Art History II                                      |           |
| ART 265--Art History III                                     |           |
| Elect one of two . . . . .                                   | 3         |
| ART 245--Ceramics                                            |           |
| ART 294--Sculpture I                                         |           |
| Elect one of three . . . . .                                 | 3         |
| ART 351--Intaglio Printmaking                                |           |
| ART 352--Lithographic Printmaking                            |           |
| ART 373--Basic Black and White Photography                   |           |
| ART History (300 or higher elective) . . . . .               | 3         |
| *ART electives (Art majors wanting certification must take-- |           |
| ART 300 and ART 321) . . . . .                               | 6         |
| Art major (minimum) credits                                  | 36        |
| *Teacher Certification is for grades P-12.                   |           |

### Area of Concentration beyond the Major

|                                                                                                                                                      |    |
|------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| ART 304--Drawing II . . . . .                                                                                                                        | 3  |
| ART History 300 or above . . . . .                                                                                                                   | 3  |
| Four additional elective art courses (could include all Studio, Commercial Art, Art History, Art Education, Internship Courses as choices) . . . . . | 12 |
| Art concentration (minimum) credits                                                                                                                  | 54 |

### Studio Art Minor

|                                                 |   |
|-------------------------------------------------|---|
| ART 101--Two Dimension Foundation . . . . .     | 3 |
| ART 102--Three Dimensional Foundation . . . . . | 3 |
| ART 103--Color Foundation . . . . .             | 3 |
| Elect two of three . . . . .                    | 6 |
| ART 263--Art History I                          |   |
| ART 264--Art History II                         |   |
| ART 265--Art History III                        |   |
| Elect one of two . . . . .                      | 3 |
| ART 245--Ceramics                               |   |
| ART 294--Sculpture I                            |   |
| Elect one of three . . . . .                    | 3 |
| ART 351--Intaglio Printmaking                   |   |
| ART 352--Lithographic Printmaking               |   |
| ART 373--Basic Black and White Photography      |   |

|                                       |   |
|---------------------------------------|---|
| ART elective .....                    | 3 |
| Studio art minor (minimum) credits 24 |   |

### Art History Minor

|                                           |   |
|-------------------------------------------|---|
| ART 101--Two Dimensional Foundation ..... | 3 |
| ART 103--Color Foundation .....           | 3 |
| ART 263--Art History I .....              | 3 |
| ART 264--Art History II .....             | 3 |
| ART 265--Art History III .....            | 3 |
| ART history 300 or above .....            | 6 |
| Art history minor (minimum) credits 21    |   |

### Department of Communications

Janet Kenney, Chair  
(606) 783-2134  
107 Breckinridge Hall

The Department of Communications prepares students for professional, business, and educational careers in advertising-public relations, electronic media, journalism, speech and theatre. Recognition of the literary, artistic, psychological and rhetorical elements of these studies enhances the student's appreciation of expressive achievements and the impact of the mass media and communications on society.

### Communications

**Faculty**--J. Atkins, M. Biel, D. Collins, D. Greer, S. Kasior, J. Kenney (Chair), L. Netherton, D. Plum, K. Sexton, T. Yancy

Students interested in teaching journalism, speech, or theatre on the secondary level refer to the Area of Concentration in English.

### Bachelor of Arts

#### Area of Concentration in Communication

All students taking the area of concentration will complete the core courses listed below and one of the four emphases on the accompanying pages. A minor is not required. However, students may complete a minor if they so desire.

#### Core Courses -- Required of all Students with an Area of Concentration in Communication

|                                                               |   |
|---------------------------------------------------------------|---|
| CMJN 110--Introduction to Mass Communication .....            | 3 |
| CMEM 151--Introduction to Broadcasting Techniques .....       | 3 |
| CMEM 210--Media Literacy .....                                | 3 |
| CMEM 341--Writing for Electronic Media .....                  | 3 |
| CMAP 166--Desktop Publishing & Publication Techniques I ..... | 3 |
| CMJN 201--News Writing & Reporting .....                      | 3 |
| CMAP 382--Principles of Public Relations .....                | 3 |
| CMAP 383--Principles of Advertising .....                     | 3 |
| SPCH 220--Introduction to Communication Theory .....          | 3 |
| SPCH 370--Business & Professional Speech .....                | 3 |

|                                                     |    |
|-----------------------------------------------------|----|
| THEA 200--Introduction to Dramatic Literature ..... | 3  |
|                                                     | 33 |

### Advertising-Public Relations Emphasis

#### Competencies Required

*Students will demonstrate:*

1. An ability to apply advertising and public relations principles and practices in a policy making environment.
2. An ability to engage in the planning and implementation of an advertising campaign.
3. An ability to devise and implement promotional strategies for products and services.
4. An ability to identify issues and resolve problems in the areas of advertising and public relations.

#### Assessment Procedures

Capstone Senior Course

#### Coursework Required

|                                                                |    |
|----------------------------------------------------------------|----|
| CMAP 247--Internship .....                                     | 1  |
| CMJN 285--Introduction to Photojournalism .....                | 3  |
| CMAP 366--Desktop Publishing & Publication Techniques II ..... | 3  |
| CMAP 447--Internship .....                                     | 2  |
| CMAP 482--Public Relations Practices .....                     | 3  |
| CMAP 483--Advertising Design .....                             | 3  |
| CMAP 491--Law & Ethics of the Press .....                      | 3  |
| CMAP 583--Advertising Copywriting .....                        | 3  |
| CMAP 584--Psychology of Advertising .....                      | 3  |
|                                                                | 24 |

### Electronic Media Production and Management Emphasis

#### Competencies Required

*Students will demonstrate:*

1. A basic knowledge of the operations, equipment, techniques and theories necessary for the production of program materials for electronic media including all types of non-broadcast delivery systems.
2. The ability to observe electronic media with an objective and critical viewpoint in order to be an effective consumer of all media.
3. A basic understanding of the evolution of management principles that address the interests of owners, employees, advertisers, audiences and media regulations and which serve as guidelines for the successful pursuit of a career in electronic media management.
4. A basic knowledge of the history, concepts of laws and regulations, the current trends and problems, and the sociological and economic implications of electronic media and its impact on society both nationally and globally.

**Assessment Procedures***Capstone Senior Course***Coursework Required**

|                                                                                         |    |
|-----------------------------------------------------------------------------------------|----|
| CMEM 250--Audio Production & Direction                                                  | 4  |
| CMEM 338--Radio Operating Practices                                                     | 1  |
| CMEM 340--Video Production & Direction                                                  | 3  |
| CMEM 440--Video Production & Direction II; or<br>CMEM 451--Professional Audio Practices | 3  |
| CMEM 450--Electronic Media Management                                                   | 3  |
| CMEM 459--Electronic Media Law & Regulation                                             | 3  |
| CMEM 562--Electronic Media Criticism                                                    | 3  |
| CMEM Electives                                                                          | 4  |
|                                                                                         | 24 |

**Electronic Media News Emphasis****Competencies Required***Students will demonstrate:*

1. Knowledge of the theory and practice of broadcast news and public affairs.
2. Competency in writing, gathering, producing, and delivering broadcast news including a basic understanding of necessary equipment.
3. Basic understanding of current trends and problems in broadcast news, an understanding of governments, media law, and an awareness of the social and economic implications of the electronic news media.

**Assessment Procedures***Capstone Senior Course***Coursework Required**

|                                              |    |
|----------------------------------------------|----|
| CMEM 250--Audio Production & Direction       | 4  |
| CMEM 338--Radio Operating Practices          | 1  |
| CMEM 340--Video Production & Direction I     | 3  |
| CMEM 344--Broadcast News & Public Affairs    | 3  |
| CMEM 420--News Feature & Documentary Writing | 3  |
| CMEM 444--Electronic Newsgathering           | 3  |
| CMEM 459--Electronic Media Law & Regulation  | 3  |
| CMEM Electives                               | 4  |
|                                              | 24 |

**Journalism Emphasis****Competencies Required***Students will demonstrate:*

1. Competency in gathering, writing, and editing news and opinion copy for the print media.
2. Competency in producing photographic images for the print media.
3. Knowledge of the history of journalism and its function in a democratic society.
4. Knowledge of the legal and ethical principles under which journalism professionals function.
5. Skill in using electronic publishing equipment and techniques to design and produce material for print media.

**Assessment Procedures***Capstone Senior Course***Coursework Required**

|                                                           |    |
|-----------------------------------------------------------|----|
| CMJN 204--Copyreading & Editing                           | 3  |
| CMJN 247--Internship                                      | 2  |
| CMJN 285--Introduction to Photojournalism                 | 3  |
| CMJN 301--Advanced News Writing                           | 3  |
| CMJN 364--Feature Writing; or<br>CMJN 358--Sports Writing | 3  |
| CMJN 447--Internship                                      | 2  |
| CMJN 465--Editorial Writing                               | 3  |
| CMAP 366--Desktop Publishing & Publication Techniques II  | 3  |
| CMJN 491--Law & Ethics of the Press                       | 3  |
|                                                           | 25 |

NOTE: Journalism students are required to take four hours of internship of which TWO hours must be newspaper internship.

**Minors****Coursework Required in all Minors****Advertising Minor**

|                                              |    |
|----------------------------------------------|----|
| CMAP 166--Desktop Publishing & Techniques I  | 3  |
| CMAP 366--Desktop Publishing & Techniques II | 3  |
| CMAP 383--Principles of Advertising          | 3  |
| CMAP 483--Advertising Design                 | 3  |
| CMAP 583--Advertising Copywriting            | 3  |
| CMAP 584--Psychology of Advertising          | 3  |
| CMJN 285--Introduction to Photojournalism    | 3  |
|                                              | 21 |

**Electronic Media Production & Management Minor**

|                                            |    |
|--------------------------------------------|----|
| CMEM 210--Media Literacy                   | 3  |
| CMEM 250--Audio Production & Direction     | 4  |
| CMEM 340--Video Production & Direction I   | 3  |
| CMEM 341--Writing for the Electronic Media | 3  |
| CMEM 450--Electronic Media Management      | 3  |
| CMEM Electives                             | 5  |
|                                            | 21 |

**Electronic Media News Minor**

|                                              |    |
|----------------------------------------------|----|
| CMEM 210--Media Literacy                     | 3  |
| CMEM 250--Audio Production & Direction       | 4  |
| CMEM 340--Video Production & Direction I     | 3  |
| CMEM 344--Broadcast News & Public Affairs    | 3  |
| CMEM 420--News Feature & Documentary Writing | 3  |
| CMEM Electives                               | 5  |
|                                              | 21 |

**Journalism News Minor**

|                                     |    |
|-------------------------------------|----|
| CMJN 201--News Writing & Reporting  | 3  |
| CMJN 204--Copyreading & Editing     | 3  |
| CMJN 285--Intro. to Photojournalism | 3  |
| CMJN 301--Advanced News Writing     | 3  |
| CMJN 364--Feature Writing           | 3  |
| CMJN 465--Editorial Writing         | 3  |
| CMJN 491--Law & Ethics of the Press | 3  |
|                                     | 21 |

**Print Media Production Minor**

|                                                         |   |
|---------------------------------------------------------|---|
| CMAP 166--Desktop Publishing & Publication Techniques I | 3 |
| CMJN 201--News Writing & Reporting                      | 3 |
| CMJN 204--Copyreading & Editing                         | 3 |
| CMAP 366--Desktop Publishing & Techniques II            | 3 |

|                                     |    |
|-------------------------------------|----|
| CMAP 383--Principles of Advertising | 3  |
| CMJN 491--Law & Ethics of the Press | 3  |
|                                     | 21 |

## Public Relations Minor

|                                             |    |
|---------------------------------------------|----|
| CMAP 166--Desktop Publishing & Techniques I | 3  |
| CMJN 201--News Writing & Reporting          | 3  |
| CMJN 204--Copyreading & Editing             | 3  |
| CMAP 382--Principles of Public Relations    | 3  |
| CMAP 482--Public Relations Practices        | 3  |
| CMEM 341--Writing for Electronic Media      | 3  |
| CMJN 285--Introduction to Photojournalism   | 3  |
|                                             | 21 |

## Speech Communication

**Faculty**--L. Albert, N. Earl, R. Frank, G. LaFleur, C. Lindell,  
M. Mallett, J. Modaff, C. Thomas

### Competencies Expected upon Completion of Program

*Students will demonstrate:*

1. Clear vocal expression in English.
2. Effectiveness in public address.
3. Ability to interpret, analyze and criticize text through performance.
4. Comprehension of selected communication theories.
5. Ability to research, develop and deliver cogent arguments.
6. Ability to participate effectively in small group discussions.
7. Ability to criticize and practice persuasive appeals.

### Assessment Procedures

*Senior Capstone Course*

### Restrictions Applying to Speech Communications Program.

A student may apply a limited number of credit hours from any combination of the following courses:

Cooperative Study 239, 439, 539.

Internship 247, 447.

Special Problems 476.

No more than 9 hours in any combination of the courses listed above may be applied toward the major. No more than 6 such hours may be applied toward a minor.

Credit hours earned in these courses that exceed the limits set above will not apply to program requirements, but may be applied to the minimum requirements for an A.B.

## Bachelor of Arts

### Major

|                                  |   |
|----------------------------------|---|
| SPCH 100--Voice and Articulation | 3 |
| SPCH 200--Oral Interpretation    | 3 |
| SPCH 210--Listening              | 3 |

|                                                |    |
|------------------------------------------------|----|
| SPCH 220--Introduction to Communication Theory | 3  |
| SPCH 309--Public Speaking                      | 3  |
| SPCH 310--Interpersonal Communication          | 3  |
| SPCH 383--Small Group Communication            | 3  |
| SPCH 385--Persuasion                           | 3  |
| Electives in SPCH or COMM                      | 12 |
| Total hours for major                          | 36 |

We strongly recommend taking electives in SPCH and COMM at or above the 300-level to help satisfy upper-division requirements for the A.B.:

### Electives

|                                                 |     |
|-------------------------------------------------|-----|
| SPCH 300--Oral Communication                    | 3   |
| SPCH 301--Advanced Voice and Articulation       | 3   |
| SPCH 305--Readers Theatre                       | 3   |
| SPCH 318--Nonverbal Communication               | 3   |
| SPCH 320--Intro. to Corrective Speech           | 3   |
| SPCH 350--Communication, Culture, and Diversity | 3   |
| SPCH 370--Business and Professional Speech      | 3   |
| SPCH 382--Argumentation and Debate              | 3   |
| SPCH 390--Communication and Conflict            | 3   |
| SPCH 400--Interviewing                          | 3   |
| SPCH 521--Classical Rhetorical Theory           | 3   |
| SPCH 522--Contemporary Rhetorical Theory        | 3   |
| SPCH 523--Rhetorical Criticism                  | 3   |
| SPCH 567--Organizational Communication          | 3   |
| SPCH 583--Advanced Small Group Communication    | 3   |
| COMM 239--Cooperative Education                 | 1-8 |
| COMM 439--Cooperative Education                 | 1-8 |
| COMM 539--Cooperative Education                 | 1-8 |
| COMM 247--Internship                            | 1-3 |
| COMM 447--Internship                            | 1-3 |
| COMM 476--Special Problems                      | 1-3 |

### Minor

|                                         |    |
|-----------------------------------------|----|
| SPCH 100--Voice and Articulation        | 3  |
| SPCH 200--Oral Interpretation           | 3  |
| SPCH 309--Public Speaking               | 3  |
| SPCH 383--Small Group Communication; or |    |
| SPCH 385--Persuasion                    | 3  |
| Electives in SPCH                       | 9  |
|                                         | 21 |

### Minor in Organizational Communications

|                                                                         |    |
|-------------------------------------------------------------------------|----|
| SPCH 310--Interpersonal Communication                                   | 3  |
| SPCH 370--Business and Professional Speech                              | 3  |
| SPCH 567--Organizational Communication                                  | 3  |
| ENG--Option--One of the following courses                               | 3  |
| ENG 390--Professional Writing                                           |    |
| ENG 591--Technical Writing I                                            |    |
| ENG 595--Technical Writing II                                           |    |
| Electives (Choose three courses from following list)                    | 9  |
| SPCH 210--Listening                                                     |    |
| SPCH 309--Public Speaking                                               |    |
| SPCH 350--Communication, Culture, and Diversity                         |    |
| SPCH 383--Small Group Communication                                     |    |
| SPCH 385--Persuasion                                                    |    |
| SPCH 390--Communication and Conflict                                    |    |
| SPCH 400--Interviewing                                                  |    |
| SPCH 510--Advanced Public Speaking                                      |    |
| BIS 321--Business Communications                                        |    |
| ENG--technical writing courses not taken to meet the above requirements |    |
| Total for Organizational Communication Minor                            | 21 |

## Theatre

**Faculty**--J. Kenney, W. Layne, T. Lockhart (director of theatre),  
M. Mallett

### *Competencies Required in the Program*

*Students will demonstrate:*

1. *A general familiarity with all aspects of theatre.*
2. *A proficiency in at least two specific areas of theatre production such as acting, directing, set design and construction, costume design and construction, lighting, properties, make-up, publicity, sound design and stage movement.*
3. *Familiarity with significant periods and styles of dramatic literature.*
4. *Basic knowledge of the chronological history of theatre.*

### *Assessment Procedures*

*Capstone Course*  
*Professional Advisory Council*

## Bachelor of Arts

### Major

|                                               |    |
|-----------------------------------------------|----|
| THEA 100--Fundamentals of the Theatre         | 3  |
| THEA 200--Introduction to Dramatic Literature | 3  |
| THEA 210--Technical Production                | 3  |
| THEA 284--Acting Techniques                   | 3  |
| THEA 315--Stage Make-Up                       | 3  |
| THEA 320--Scenographic and Drawing Techniques | 3  |
| THEA 322--Scene Design                        | 3  |
| THEA 354--Theatre History                     | 3  |
| THEA 380--Play Directing                      | 3  |
| SPCH 100--Voice and Articulation I            | 3  |
| Theatre Electives                             | 6  |
|                                               | 36 |

### Minor

|                                               |    |
|-----------------------------------------------|----|
| THEA 100--Fundamentals of the Theatre         | 3  |
| THEA 200--Introduction to Dramatic Literature | 3  |
| THEA 210--Technical Production                | 3  |
| THEA 284--Acting Techniques                   | 3  |
| THEA 320--Scenographic and Drawing Techniques | 3  |
| THEA 322--Scene Design                        | 3  |
| THEA 380--Play Directing                      | 3  |
|                                               | 21 |

## Department of English, Foreign Languages, and Philosophy

Mark Minor, Chair  
(606) 783-2185  
103 Combs Building

## English

**Faculty**--A. Adams, G. Colburn, G. Eklund, C. Foley, M. Glasser,  
F. Helphinstine, S. Henneberg, T. Irons, R. Lockhart, J. Mace,  
G. Mays, K. Mincey, M. Minor (Chair), R. Morrison, S. Morrison,  
L. Neeper, B. Peters, N. Peterson, R. Royar, L. Taetzsch

### *Competencies Required in the Program*

1. *Knowledge of major periods in American and British literature as well as major works and authors in those literary periods.*
2. *Knowledge of the various genres (e.g., short story, drama, novel, poem, essay) and their historical development.*
3. *Ability to write and think critically, leading to a proficiency in various linguistic, rhetorical, and critical discourses.*
4. *Ability to locate and select electronic and print materials appropriate to scholarship in English studies.*
5. *Knowledge of various linguistic, rhetorical, and/or critical approaches to literary texts.*
6. *Knowledge of culturally diverse literature.*
7. *Knowledge of the history and structure of English.*

### *Additional Competency for Teaching Majors/Areas*

**\*\* Knowledge of contemporary pedagogy in English studies.**

### *Assessment Procedures:*

*Exit examinations*  
*Survey of graduates*

## Bachelor of Arts

The English curriculum has a two-fold purpose. It seeks to make a contribution to the general education of all students by providing them with the study of writing so that they may use their language as effectively and precisely as possible and by introducing them to the sympathetic understanding of literature so that their personal lives will be enriched by literary art. It prepares students for such vocations as teaching, publishing, business and public relations as well as for further professional studies.

## Requirements

In addition to the requirements listed, a minimum of two semesters (6 hrs.) of a foreign language is required of students completing an area or major in English. Four semesters (12 hrs.) of a foreign language are recommended.

## Area of Concentration (Teaching 7-12)\*

General Education Requirements ..... 48  
(See the general education requirements for the University.)

The following specific general education requirements must be completed:

|                                                    |   |
|----------------------------------------------------|---|
| ENG 499C--Senior Seminar in English                | 3 |
| Literature Surveys                                 |   |
| ENG 331--British Literature to 1750                | 3 |
| ENG 332--British Literature since 1750             | 3 |
| ENG 341--American Literature to 1865               | 3 |
| ENG 342--American Literature since 1865            | 3 |
| Linguistics                                        | 6 |
| <i>Select one course from the following:</i>       |   |
| ENG 305--Introduction to Linguistics               |   |
| ENG 315--Structure of English                      |   |
| ENG 505--Linguistics: Grammar                      |   |
| <i>Select one course from the following:</i>       |   |
| ENG 393--History of English Language               |   |
| ENG 394--Language and Society                      |   |
| ENG 501--General Semantics                         |   |
| Writing                                            | 6 |
| <i>Select one course from the following:</i>       |   |
| ENG 390--Professional Writing                      |   |
| ENG 391--Advanced Expository Writing               |   |
| CMJN 301--Advanced News Writing and Reporting      |   |
| CMJN 465--Editorial Writing                        |   |
| CMJN 560--Reviews and Criticism                    |   |
| <i>Select one course from the following:</i>       |   |
| ENG 395--Poetry Writing; or                        |   |
| ENG 583--Advanced Poetry Writing                   |   |
| ENG 396--Fiction Writing; or                       |   |
| ENG 584--Advanced Fiction Writing                  |   |
| ENG 397--Creative Non-Fiction                      |   |
| CMJN 358--Sports Writing                           |   |
| CMJN 364--Feature Writing                          |   |
| Speech                                             | 6 |
| <i>Select one course from the following:</i>       |   |
| SPCH 200--Oral Interpretation                      |   |
| SPCH 309--Public Speaking                          |   |
| <i>Select one course from the following:</i>       |   |
| SPCH 310--Interpersonal Communication              |   |
| SPCH 382--Argumentation and Debate                 |   |
| SPCH 383--Group Discussion                         |   |
| Journalism                                         | 3 |
| CMJN 201--News Writing and Reporting               |   |
| Theatre                                            | 9 |
| THEA 210--Technical Production                     |   |
| <i>Select one course from the following:</i>       |   |
| THEA 100--Fundamentals of the Theatre              |   |
| THEA 110--Introduction to the Theatre              |   |
| <i>Select one course from the following:</i>       |   |
| THEA 284--Acting Techniques                        |   |
| THEA 380--Play Directing                           |   |
| English Language Arts Pedagogy                     | 9 |
| ENG 492--Writing in Secondary Schools              |   |
| ENG 500--Studies in English for Teachers           |   |
| <i>Select one course from the following:</i>       |   |
| CMJN 504--School Publications                      |   |
| SPCH 495--Administering the Communications Program |   |

|                                                                                                            |    |
|------------------------------------------------------------------------------------------------------------|----|
| Electives                                                                                                  | 12 |
| <i>Select one Multi-Cultural course from the following</i>                                                 |    |
| ENG 320--Women Writers and Feminist Perspectives                                                           |    |
| ENG 325--Religious Literatures of the World                                                                |    |
| ENG 348--African-American Literature                                                                       |    |
| ENG 360--Appalachian Literature                                                                            |    |
| ENG 365--Literature of the South                                                                           |    |
| <i>Select one Literary Period course from the following:</i>                                               |    |
| ENG 436--English Renaissance                                                                               |    |
| ENG 441--Restoration and 18th Century Literature                                                           |    |
| ENG 442--Romantic Writers                                                                                  |    |
| ENG 443--Victorian Writers                                                                                 |    |
| ENG 444--Twentieth Century British Literature                                                              |    |
| ENG 545--Seventeenth British Literature                                                                    |    |
| ENG 561--Studies in American Literary Periods                                                              |    |
| <i>Select one Major Author course from the following:</i>                                                  |    |
| ENG 435--Shakespeare                                                                                       |    |
| ENG 499--Seminar: Major Writers                                                                            |    |
| ENG 534--Chaucer                                                                                           |    |
| ENG 539--Milton                                                                                            |    |
| <i>Select one Genre course from the following:</i>                                                         |    |
| ENG 466--American Poetry                                                                                   |    |
| ENG 533--English Novel                                                                                     |    |
| ENG 552--Early Dramatic Literature                                                                         |    |
| ENG 553--Modern Drama                                                                                      |    |
| ENG 563--American Fiction                                                                                  |    |
| ENG 570--Introduction to Film Literature                                                                   |    |
| Supplemental Requirements                                                                                  |    |
| Foreign Language                                                                                           | 6  |
| (Six semester hours in <u>one</u> foreign language, e.g. French, Spanish, German, Italian, Latin, Russian) |    |
| EDUC 576--Reading in the Secondary School                                                                  | 3  |
|                                                                                                            | 72 |

## Major

|                                          |   |
|------------------------------------------|---|
| General education literature             | 3 |
| ENG 220--Approaches to Literature        |   |
| American literature surveys (elect one)  | 3 |
| ENG 341--American Literature to 1865     |   |
| ENG 342--American Literature since 1865  |   |
| British literature surveys               | 6 |
| ENG 331--British Literature to 1750      |   |
| ENG 332--British Literature since 1750   |   |
| English language* (elect one)            | 3 |
| ENG 305--Introduction to Linguistics     |   |
| ENG 315--Structure of English            |   |
| ENG 393--History of the English Language |   |
| ENG 394--Language and Society            |   |
| ENG 501--General Semantics               |   |
| ENG 505--Linguistics: Grammar            |   |

\*English majors seeking teacher certification must choose ENG 315 or ENG 505, and must take an additional 3 sem. hrs. from the courses listed above in place of one of the electives below.

|                                                  |    |
|--------------------------------------------------|----|
| Writing (elect course from 300-500 level)        | 3  |
| ENG 435--Shakespeare                             | 3  |
| **English electives (excludes 100 level courses) | 12 |
|                                                  | 33 |

\*\*Of these 12 hours, a minimum of 9 hours of 300-500 level courses must be taken, including 6 hours from the following courses (English majors seeking teacher certification must take ENG 500--Studies in English for Teachers, and may take it in place of one of the courses on the list):

|                                        |
|----------------------------------------|
| ENG 344--The Short Story and the Novel |
| ENG 348--African-American Literature   |

ENG 436--The English Renaissance  
 ENG 441--Restoration and Eighteenth Century British Literature  
 ENG 442--Romantic Writers  
 ENG 443--Victorian Writers  
 ENG 444--Twentieth Century British Literature  
 ENG 466--American Poetry  
 ENG 499--Seminar: Major Writers  
 ENG 528--Literary Criticism  
 ENG 533--The English Novel  
 ENG 534--Chaucer  
 ENG 539--Milton  
 ENG 545--Seventeenth Century British Literature  
 ENG 552--Early Dramatic Literature  
 ENG 553--Modern Drama  
 ENG 561--Studies in American Literary Periods  
 ENG 563--American Fiction

All English majors must complete at least 6 sem. hrs. of one foreign language. The major does not include the general education requirement in composition (6 sem. hrs.) or literature (3 hrs.).

### Minor in English

American Literature Surveys (elect one) . . . . . 3  
 ENG 341--American Literature to 1865  
 ENG 342--American Literature since 1865  
 British Literature Surveys . . . . . 6  
 ENG 331--British Literature to 1750  
 ENG 332--British Literature since 1750  
 English Language (elect one) . . . . . 3  
 ENG 305--Introduction to Linguistics  
 ENG 315--Structure of English  
 ENG 393--History of the English Language  
 ENG 394--Language and Society  
 ENG 501--General Semantics  
 ENG 505--Linguistics: Grammar  
 Writing (elect one from 300-500 level courses) . . . . . 3  
 English electives (200-500 level courses),  
 6 sem hrs. of which must be 300-500 level courses . . . . . 9  
 24

### Minor in Linguistics

This minor may be appealing to those majoring in professional fields such as law, business, or any area in which communication skills and use of the computer may be emphasized without calling for the expertise of an individual trained in depth in technical writing or literature.

Language Courses . . . . . 12  
 ENG 305--Introduction to Linguistics  
 ENG 315--Structure of English  
 ENG 505--Linguistics: Grammar  
*One of the following:*  
 ENG 393--History of the English Language  
 ENG 394--Language and Society  
 ENG 501--General Semantics  
 Writing courses (elect two) . . . . . 6  
 ENG 391--Advanced Expository Writing  
 ENG 395--Poetry Writing  
 ENG 396--Fiction Writing  
 ENG 397--Writing Creative Nonfiction  
 ENG 591--Technical Writing I  
 ENG 592--Technical Writing II  
 ENG 583--Advanced Poetry Writing  
 ENG 584--Advanced Fiction Writing

ENG 597--Technical Editing  
 Data processing courses (elect one) . . . . . 3  
 CIS 101--Computers for Learning  
 CIS 202--Computer Programming (BASIC)  
 CIS 211--Microcomputers  
 Literature elective . . . . . 3  
 24

The minor in linguistics does not include the general education requirement in composition (6 sem. hrs.) or literature (3 sem. hrs.).

### Minor in Creative Writing

The minor in creative writing is designed for students who wish to develop their writing skills in a variety of genres.

Select from the following . . . . . 12  
 ENG 391--Advanced Expository Writing  
 ENG 395--Poetry Writing  
 ENG 396--Fiction Writing  
 ENG 397--Writing Creative Nonfiction  
 ENG 583--Advanced Poetry Writing  
 ENG 584--Advanced Fiction Writing  
 THEA 512--Playwriting  
 Literature electives (300-500 level courses) . . . . . 3  
 Additional electives from 300-500 level courses in  
 literature, linguistics, or foreign languages . . . . . 6  
 21

The minor in creative writing does not include the general education requirements in composition (6 sem. hrs.). ENG 293 is required for the minor.

### Minor in Technical Communication

The minor in technical communications is designed for students preparing for any career in which effective writing is important and for students preparing to become professional, technical, scientific, or business writers and editors.

Language . . . . . 6  
 ENG 315--Structure of English  
*One of the following courses:*  
 ENG 305--Introduction to Linguistics  
 ENG 393--History of the English Language  
 ENG 394--Language and Society  
 ENG 501--General Semantics  
 ENG 505--Linguistics: Grammar  
 Writing . . . . . 9  
 ENG 591--Technical Writing I  
 ENG 592--Technical Writing II  
 ENG 597--Technical Editing  
 Other courses (elect from the following) . . . . . 6  
 CIS 101--Computers for Learning  
*One of the following graphics skill courses:*  
 GCT 102--Graphic Arts I  
 GCT 103--Fundamentals of Technical Graphics  
 GCT 202--Graphic Arts II  
 GCT 203--Technical Drawing II  
 GCT 322--Photography  
 CMJN 285--Introduction to Photojournalism  
 ART 101--Two-Dimensional Foundation  
 ART 103--Color Foundation

The minor in technical communication does not include the general education requirements in composition (6 sem. hrs.).

## Minor in Literature

|                                                              |   |
|--------------------------------------------------------------|---|
| American or British Literature . . . . .                     | 3 |
| <i>(Select one of the following:)</i>                        |   |
| ENG 331--British Literature to 1750                          |   |
| ENG 332--British Literature since 1750                       |   |
| ENG 341--American Literature to 1865                         |   |
| ENG 342--American Literature since 1865                      |   |
| ENG 435--Shakespeare . . . . .                               | 3 |
| Literature and literary criticism . . . . .                  | 9 |
| <i>(electives to be selected from 300-500 level courses)</i> |   |
| Philosophy . . . . .                                         | 3 |
| <i>(Select one of the following:)</i>                        |   |
| PHIL 200--Introduction to Philosophy                         |   |
| PHIL 308--Philosophy of the Arts                             |   |
| PHIL 309--Existentialism                                     |   |
| PHIL 313--American Philosophy                                |   |
| PHIL 410--Contemporary Philosophy                            |   |
| PHIL 405--History of Philosophy I                            |   |
| PHIL 406--History of Philosophy II                           |   |
| PHIL 389--Honors Seminar in Philosophy                       |   |
| History . . . . .                                            | 3 |
| <i>(Select one of the following courses:)</i>                |   |
| HIS 220--Early American History                              |   |
| HIS 202--American Studies                                    |   |
| HIS 324--The South                                           |   |
| HIS 334--The Renaissance and Reformation                     |   |
| HIS 351--England to 1660                                     |   |
| HIS 352--England since 1660                                  |   |
| HIS 350--Religion in American History                        |   |

21

The minor in literature does not include the general education requirements in composition (6 sem. hrs.).

## French

**Faculty**--E. Hastings, M. Netherton, J. Secor

### Competencies Required in the Program

*Students completing the French Major will be expected to achieve the following competencies:*

1. Proficiency in the Four Language Skills: Listening, Speaking, Reading, Writing.
2. Familiarity with the culture and civilization of France and other Francophone countries.
3. Familiarity with the most significant works of French literature.

### Additional competencies for Teacher-Education Students:

*Students who are in addition seeking certification for teaching are expected to possess those competencies determined by the Teacher Education Program.*

### Assessment Procedures

*Listening and reading exams will be given at the intermediate level. An exit exam testing the four skills will be administered at the advanced level.*

The French curriculum at Morehead State University teaches the language, literature, and civilization of France in depth, and introduces the culture of the Francophone world. Through the study of French, students will develop an awareness of areas of thought and action different from their own.

A French major or minor can lead to employment opportunities in teaching, business, translating/interpreting, as well as to post-graduate study in law, diplomacy, and humanities.

First-hand knowledge of the target culture is vital to high achievement in the French major. Through its membership in the Kentucky Institute for International Studies, Morehead State University provides students access to a five-week study abroad program in France. Credits earned in KIIS automatically transfer to Morehead degree.

*NOTE: French 202 or the equivalent is prerequisite to all courses numbered 300 or above.*

## Bachelor of Arts

### Major

|                                                        |    |
|--------------------------------------------------------|----|
| FRN 101--Beginning French I . . . . .                  | 3  |
| FRN 102--Beginning French II . . . . .                 | 3  |
| FRN 201--Intermediate French . . . . .                 | 3  |
| FRN 202--Conversation and Composition . . . . .        | 3  |
| FRN 301--Advanced Grammar and Composition . . . . .    | 3  |
| FRN 302--Advanced Phonetics and Conversation . . . . . | 3  |
| FRN 303--Survey of French Literature I . . . . .       | 3  |
| FRN 304--Survey of French Literature II . . . . .      | 3  |
| Electives above FRN 202* . . . . .                     | 6  |
|                                                        | 30 |

### Teaching (P-12)

\*Teaching majors must choose FRN 405--Linguistics and Language Teaching in addition to the 30 sem. hrs. of work specified above (33 sem. hrs. total). All majors must take the capstone course, FRN 499C, in addition to the 30 or 33 hours specified above. All majors must take the capstone course FRN 499C, in addition to the 30 or 33 hours specified above.

### Minor

|                                                     |    |
|-----------------------------------------------------|----|
| FRN 101--Beginning French I . . . . .               | 3  |
| FRN 102--Beginning French II . . . . .              | 3  |
| FRN 201--Intermediate French . . . . .              | 3  |
| FRN 202--Conversation and Composition . . . . .     | 3  |
| FRN 301--Advanced Grammar and Composition . . . . . | 3  |
| Electives above FRN 202* . . . . .                  | 6  |
|                                                     | 21 |

Students with two years of high school French should enroll in FRN 102; students with four years of high school French should enroll in FRN 201.

It is strongly recommended that French be started in the freshman year and that the courses be taken without interruption.

## German

Faculty--Staff

There are no academic programs in German, but courses are available. Please refer to the course description section for course offerings.

## Italian

Faculty--J. Secor

There are no academic programs in Italian, but courses are available. Please refer to the course description section for course offerings.

## Latin

Faculty--M. Netherton, J. Secor

There are no academic programs in Latin, but courses are available. Please refer to the course description section for course offerings.

## Russian

Faculty--Staff

There are no academic programs in Russian, but courses are available. Please refer to the course description section for course offerings.

## Spanish

Faculty--V. Cano, E. Hastings, J. Secor

### Competencies Required in the Program

1. ACTFL Intermediate level of proficiency in the four skills (listening, reading, speaking, and writing).\*
2. Familiarity with some of the most significant works of Spanish and Spanish-American literature.
3. Familiarity with aspects of the culture and civilization of the Hispanic world.

\*These competencies are tentative and will be refined within the next three years after extensive testing.

*Additional Competencies for Teacher-Education Students:*  
Students seeking certification in Spanish are expected to possess those competencies determined by the Teacher Education Program.

### Assessment Procedures

Mid-point proficiency exams  
Exit proficiency exams  
Student portfolios

The Spanish curriculum at Morehead State University teaches the language and the literature of the Hispanic world, whereby students will perceive areas of thought and action different from their own. More specifically, it surveys Hispanic civilization through its history, geography, and fine arts, as well as political and social institutions. For students interested in international business, the curriculum also offers the opportunity to acquire proficiency in Spanish for business and commerce.

Students may receive full credit at Morehead State University for course taken in summer, semester, and year study abroad programs, including those administered by the Kentucky Institute of International Studies (KIIS). Summer study opportunities are offered in Ecuador, Mexico and Spain. Two semester programs are also available: one for the fall semester in Morelia, Mexico and one for the spring semester in Segovia, Spain. Participation is strongly encouraged.

The Spanish program prepares students to enter areas of teaching, interpretation, and translation. Further, the study of Spanish aids students seeking employment in areas where knowledge of a second language is beneficial--business and commerce, tourism, social services, and the like.

*NOTE: SPA 300 is a prerequisite for all other 300- and-above numbered courses except SPA 305 and SPA 320.*

## Bachelor of Arts

General Education Requirements . . . . . 48  
(See general education requirements for the University.)

### Major

|                                                                            |    |
|----------------------------------------------------------------------------|----|
| Basic Language . . . . .                                                   | 12 |
| SPA 101--Spanish Language and Culture I                                    |    |
| SPA 102--Spanish Language and Culture II                                   |    |
| SPA 201--Intermediate Spanish I                                            |    |
| SPA 202--Intermediate Spanish II                                           |    |
| Advanced Language . . . . .                                                | 3  |
| SPA 300--Grammar and Composition                                           |    |
| Spanish Literature (elect one 300 and one 400 course) . . . . .            | 6  |
| SPA 301--Survey of Peninsular Spanish Literature from 1700                 |    |
| SPA 401--Masterpieces of Spanish Literature                                |    |
| SPA 302--Survey of Spanish American Literature from Colonial Times to 1880 |    |
| SPA 402--Masterpieces of Spanish American Literature                       |    |
| Approved 300-500 level electives* . . . . .                                | 9  |

## Teaching (P-12)

\*Teaching majors must choose SPA 405:

Linguistics and Language Teaching in addition to the 30 sem. hrs. of work specified above (33 sem. hrs. total). SPA 320: Hispanic Culture and Civilization is recommended for those students who will take the Praxis II Exam.

In addition to the 30 or 33 hours requirements listed above, the non-teaching and the teaching majors must complete SPA 499C--Senior Seminar in Spanish (3 sem. hrs.). Please note that the number of hours indicated for the major is a minimum requirement. Students may need to take additional course work to achieve the proper level of competency in the language

## Minor in Spanish

|                                          |    |
|------------------------------------------|----|
| Basic Language                           | 12 |
| SPA 101--Spanish Language and Culture I  |    |
| SPA 102--Spanish Language and Culture II |    |
| SPA 201--Intermediate Spanish I          |    |
| SPA 202--Intermediate Spanish II         |    |
| Advanced Language                        | 3  |
| SPA 300-Grammar and Composition          |    |
| Approved 300-500 level electives*        | 6  |
|                                          | 21 |

Students who come to the University with:

- One semester of Spanish in high school should take SPA 101;
- Two or three semesters of Spanish in high school should take SPA 102;
- Four or five semesters of Spanish in high school should take SPA 201;
- Six semesters of Spanish in high school should take SPA 202.

It is strongly recommended that Spanish be started in the freshman year and that the courses be taken without interruption.

## Philosophy

**Faculty**--S. Davison, G. Luckey, W. O'Brien, J. Weir

### Competencies Required in the Program

1. An understanding of the significance of basic assumptions and presuppositions, and skill at identifying and evaluating them.
2. An understanding of the major ideas of prominent philosophers -- Eastern and Western, past and present -- in the areas of epistemology, metaphysics, ethics, and aesthetics.
3. The ability and disposition to think critically and to understand, evaluate, and construct arguments in the context of cultural diversity.
4. An understanding and appreciation of diverse values and perspectives on life, and the

*competence to begin to construct one's own life philosophy.*

## Bachelor of Arts

### Major

|                                                            |    |
|------------------------------------------------------------|----|
| PHIL 200--Introduction to Philosophy                       | 3  |
| PHIL 306--Introduction to Logic                            | 3  |
| PHIL 405--Ancient and Medieval Philosophy                  | 3  |
| PHIL 406--Modern and Contemporary Philosophy               | 3  |
| PHIL 499C--Senior Seminar in Philosophy                    | 3  |
| Additional credit in philosophy approved by the department | 15 |
| Minimum for a major                                        | 30 |

### Minor

|                                                            |    |
|------------------------------------------------------------|----|
| PHIL 200--Introduction to Philosophy                       | 3  |
| PHIL 306--Introduction to Logic                            | 3  |
| PHIL 405--Ancient and Medieval Philosophy                  | 3  |
| PHIL 406--Modern and Contemporary Philosophy               | 3  |
| Additional credit in philosophy approved by the department | 9  |
| Minimum for a minor                                        | 21 |

## Religious Studies

**Faculty**--G. Luckey, J. Weir

There are no academic programs in religious studies, but courses are available. Please refer to the Description of Course section for course offerings.

## Department of Geography, Government, and History

Ric Caric, Interim Chair  
(606) 783-2655  
350 Rader Hall

## Geography

**Faculty**--A. Curtis, S. Hartley, R. Mitchelson, S. Parkansky, T. Pitts

### Competencies Required in the Program

Students are expected to have:

1. The technical ability to store, manage, manipulate, and display geographic data in order to answer research questions and solve problems.
2. The ability to perform synthetic regional analyses with a focus on economic development including consideration of factors that contribute to growth and its impact on the physical environment.
3. The ability to perform real world location analyses, which are based on traditional geographic theories and concepts.

4. *The ability to recognize and value the varied nature of the human condition across individuals and culture groups through the practice of world regional analysis.*
5. *The ability to express methods of geographic investigation, to conduct original studies, and to present findings of those investigations in written and oral format.*

#### Assessment Procedures

Senior capstone course  
Portfolios

The Department of Geography, Government and History offers a well-balanced undergraduate program in geography which includes a 33-semester hour major and a 24-semester hour minor.

Appropriate educational experiences and training are provided to prepare persons for entry into careers in teaching, government service, planning and resource management.

Geography--by its very nature--has a global perspective; and most of the courses offered by the department contribute to a student's understanding of the diversity of human cultures on the planet.

## Bachelor of Arts

General Education Requirements ..... 48  
(See general education requirements for the University.)

### Major

|                                         |    |
|-----------------------------------------|----|
| GEO 100--Fundamentals of Geography      | 3  |
| GEO 101--Physical Geography             | 3  |
| GEO 211--Economic Geography             | 3  |
| GEO 241--United States and Canada       | 3  |
| GEO 499C--Senior Seminar                | 3  |
| *GEO--electives in systematic geography | 9  |
| *GEO--electives in regional geography   | 9  |
| Minimum for a major                     | 33 |

### Minor

|                                         |    |
|-----------------------------------------|----|
| GEO 100--Fundamentals of Geography      | 3  |
| GEO 101--Physical Geography             | 3  |
| GEO 211--Economic Geography             | 3  |
| GEO 241--United States and Canada       | 3  |
| GEO 499C--Senior Seminar                | 3  |
| *GEO--electives in systematic geography | 3  |
| **GEO--electives                        | 6  |
| Minimum for a minor                     | 24 |

\*Electives in systematic and regional geography must be selected with the approval of the student's faculty advisor.

## Government

Faculty--L. Back, R. Caric, G. Goldey, W. Green, S. Herzog, X. Hu, M. Mote-Yale, D. Murphy

### Competencies Required in the Program

Students are expected to possess:

1. *The ability to exhibit knowledge of political conditions within the United States including the working of formal and informal institutions and the role of conflict, special interest, power, and inequities in the policy making process.*
2. *An understanding of the political systems in other countries, the relations between countries, and the functioning of international institutions. This is the basis for comparative study and evaluation of the United States' political system.*
3. *The ability to analyze the impact of government policies on social and economic conditions in the United States and other countries.*
4. *The ability to recognize and value the varied nature of the human condition across individuals and culture groups through the practice of political analysis.*
5. *The ability to use methods of political investigation, to conduct original studies, and to present findings from those investigations in written and oral formats.*

#### Assessment Procedures

Capstone course  
Major Field Achievement Test

## Bachelor of Arts

The government major and minor provide students with the opportunity to study political ideas, institutions and policies. The government faculty offer courses in political thought; American national, state and local government and public law; public administration; comparative government; and international relations. National government internships and seminars are available through the Washington Center. Students who study government usually pursue careers in law, teaching and government service.

General Education Requirements ..... 48  
(See general education requirements for the University.)

### Major

#### Required Introductory Courses

|                                                |   |
|------------------------------------------------|---|
| GOVT 141--United States Government             | 3 |
| GOVT 210--Introduction to Political Theory     | 3 |
| GOVT 230--Introduction to Comparative Politics | 3 |

Required Advanced Subfield Courses ..... 6  
(Choose one course in two of the four subfields.)

1. Political Theory
2. Comparative Politics
3. American Politics
4. International Politics

**Required Advanced Courses**

|                                        |    |
|----------------------------------------|----|
| GOVT 381--Methods of Political Inquiry | 3  |
| GOVT 499C--Senior Seminar              | 3  |
| GOVT electives                         | 12 |
|                                        | 33 |

Government majors must write a senior paper in GOVT 499C. Three members of the Government faculty will read the paper. The student must receive a grade of "C" or better for the paper from two of the three faculty members to pass the course.

**Minor****Required Introductory Courses**

|                                                |   |
|------------------------------------------------|---|
| GOVT 141--United States Government             | 3 |
| GOVT 210--Introduction to Political Theory     | 3 |
| GOVT 230--Introduction to Comparative Politics | 3 |

**Required Advanced Subfield Courses** 6

(Choose one course in two of the four subfields.)

1. Political Theory
2. Comparative Politics
3. American Politics
4. International Politics

**Required Advanced Courses**

|                |    |
|----------------|----|
| GOVT electives | 9  |
|                | 24 |

Government minors are encouraged to take GOVT 381--Methods of Political Inquiry.

**History**

**Faculty**--Y. Baldwin, A. Cain, S. Eacker, J. Ernst, J. Hennen, C. MacKay

**Competencies Required in the Program**

*Students are expected to possess:*

1. *A broad understanding of the events, circumstances, and chronology of world history.*
2. *The analytical ability and critical thinking skills to interpret historical events.*
3. *The ability to use methods of historical investigation, to conduct original research using primary sources, and to present findings in written and oral formats.*
4. *The ability to access and use electronic databases, information sites, and various on-line resources.*

**Assessment Procedures**

Major Field Achievement Test  
Capstone course  
Portfolios

**Bachelor of Arts**

The major and minor in history provide breadth in area coverage and depth in practicing history research. These characteristics of the program prepare students to

enter the teaching profession, to enter an applied field such as heritage work, or to go on for graduate education.

**General Education Requirements** 48  
(See general education requirements for the University.)**Major**

|                                                                     |    |
|---------------------------------------------------------------------|----|
| HIS 201--Global Studies                                             | 3  |
| HIS 202--American Studies                                           | 3  |
| HIS 210--Early World History; or<br>HIS 220--Early American History | 3  |
| HIS 250--Practicing History                                         | 3  |
| HIS 300--329 Advanced American History                              | 3  |
| HIS 350--369 Advanced European History                              | 3  |
| HIS 370--379 Advanced Nonwestern History                            | 3  |
| HIS 399--Special Topics in History                                  | 3  |
| HIS 499C--Senior Seminar in History                                 | 3  |
| Advanced Electives in History                                       | 6  |
| Minimum for Major                                                   | 33 |

**Minor**

|                                                                     |    |
|---------------------------------------------------------------------|----|
| HIS 201--Global Studies                                             | 3  |
| HIS 202--American Studies                                           | 3  |
| HIS 210--Early World History; or<br>HIS 220--Early American History | 3  |
| HIS 250--Practicing History                                         | 3  |
| HIS 300--329 Advanced American History                              | 3  |
| HIS 350--369 Advanced European History                              | 3  |
| HIS 370--379 Advanced Nonwestern History                            | 3  |
| Advanced Elective in History                                        | 3  |
| Minimum for Minor                                                   | 24 |

**Supplemental Requirements of each Major and Minor in History:**

- A. Three hours of any foreign language must be included in the humanities component of the general education requirement.
- B. Each major or minor is required to complete a satisfactory student portfolio. These are discussed and initiated when the student enrolls in HIS 250.
- C. All majors and minors are encouraged to seek significant international experiences through travel, opportunities on campus, or use of modern information technologies.

**Additional Constraints:**

Students are permitted to use only one course in the major or minor from each of the following pairs:

- A. HIS 322--Appalachia or HIS 323--Kentucky
- B. HIS 311--Native American or HIS 321--American Frontier

Students are not permitted to use HIS 544--Historical Tours as credit toward the history major or minor.

## Paralegal Studies

**Faculty**--W. Green, S. Herzog (coordinator), D. Murphy

### Competencies Required in the Program

*Students are expected to possess:*

1. Knowledge of local, state, and national governments with particular emphasis on the American court system and its procedures. Understanding of the role of attorneys and paralegals in the delivery of legal services.
2. The ability to apply the basic principles of law within specialized areas.
3. The ability to function within the context of the modern law office while making use of new information technologies applied to the creation and use of common legal forms and documents.
4. The ability to recognize and value the varied nature of the human condition across individuals and culture groups through paralegal practice.
5. The ability to express methods of legal research, to conduct original studies, and to present findings of those investigations in written and oral format.

### Assessment Procedures

Senior capstone

Internship evaluation

## Bachelor of Arts

The paralegal profession is a fast-growing field in which paralegals (also called legal assistants) perform a variety of essential legal tasks under the supervision of lawyers. Some of the many tasks a paralegal might encounter are client interviewing, drafting of legal documents, researching points of law, litigation support, law office management, and representing clients before administrative agencies as allowed by law.

The B.A. in Paralegal Studies is designed to equip graduates with the appropriate applied and theoretical knowledge of law in order to successfully assist lawyers in providing legal services to clients. The Major combines the advantages of a liberal arts education with the practical skills development necessary to provide legal assistance to attorneys in law offices, corporations, and government agencies.

The Paralegal Studies Program has been approved by the American Bar Association for paralegal training.

**NOTE:** Paralegals are prohibited by law from engaging in the practice of law. Completion of this program or receipt of a B. A. in Paralegal Studies does not entitle one to practice law or render legal advice except as provided by law. See: Kentucky Supreme Court Rule 3.700 and Kentucky Revised Statutes 524.130.

**General Education Requirements** ..... 48  
(See general education requirements for the University.)

## Major

### Program Requirements

#### General Education Prerequisite

GOVT 141--United States Government ..... 3

### Supplemental Requirement

BIS 113--Keyboarding; or

CIS 101--Computers for Learning (or equivalent) ..... 1-3

### Required Courses

|                                                    |   |
|----------------------------------------------------|---|
| PLS 210--Introduction to Paralegalism              | 3 |
| PLS 321--Legal Research                            | 3 |
| PLS 322--Legal Writing                             | 3 |
| PLS 325--Civil Litigation I                        | 3 |
| PLS 326--Civil Litigation II                       | 3 |
| PLS 332--Property Law                              | 3 |
| PLS 335--Contracts and the Uniform Commercial Code | 3 |
| PLS 340--Criminal Law and Procedure                | 3 |
| PLS 490--Paralegal Internship                      | 3 |
| PLS 499C--Senior Paralegal Practice Seminar        | 3 |

### Elective Courses

Choose 6 sem. hrs. from the following approved electives. At least 3 sem. hrs. must be from courses with a PLS prefix.

|                                          |    |
|------------------------------------------|----|
| GOVT 303--Comparative Constitutional Law | 3  |
| GOVT 321--Constitutional Law             | 3  |
| GOVT 322--Courts and Civil Liberties     | 3  |
| GOVT 324--Environmental Law and Policy   | 3  |
| PLS 333--Family Law                      | 3  |
| PLS 336--Wills, Trusts, and Estates      | 3  |
| PLS 337--Corporate Law                   | 3  |
| PLS 360--Legal Specialty Course          | 3  |
| PLS 476--Special Problems                | 3  |
|                                          | 6  |
|                                          | 39 |

## Pre-Law

**Faculty**--L. Back, W. Green, S. Herzog, C. MacKay, D. Murphy

The Pre-Law program does not contain a set of course requirements. MSU adopts the view, endorsed by American law schools, that there should not be a fixed comprehensive pre-law curriculum, because American legal education is not a graduate program of advanced work in a specialized academic discipline that builds upon basic knowledge and techniques acquired in an undergraduate major.

Legal education is professional education which requires students to have developed basic skills prior to law school. These skills include the ability to think, read, write well, and understand human experience, including a knowledge of history, government and political processes, social and cultural patterns, and the ethical and spiritual credos by which people live.

Students develop these skills by majoring in one of many academic disciplines. Once students choose a major, they should take courses which require them to write coherently, speak articulately, and argue persuasively. Law school students have undergraduate majors in wide variety of academic fields, but Government is the major most frequently chosen as preparation for law school.

The Government Pre-Law faculty listed above are the Law School Admission Council's official Morehead State University Pre-Law advisors. These five faculty, three of whom have law degrees, will be able to provide

Pre-Law students with information, materials, and advice in developing their Pre-Law program, taking the LSAT, gaining admission to law school, and pursuing a legal career. Pre-Law students who have questions related to their major are encouraged to contact both their academic advisor and a government Pre-Law advisor.

Pre-Law students have the opportunity to join and practice in Societas Pro Legibus, MSU's pre-law society. Societas Pro Legibus is involved in a variety of law school-related activities: hosting visits by law school admissions officers, supporting student trips to law school conferences, lectures, and open houses, and sponsoring the annual MSU Constitutional Essay and Scholarship Contest.

## Social Studies

Faculty--L. Back, Y. Baldwin, A. Cain, R. Caric, A. Curtis, S. Eacker, J. Ernst, J. Hennen, C. MacKay, R. Mitchelson, M. Mote-Yale, T. Pitts

### Competencies Required in the Program

*Students are expected to possess:*

1. *The capacity to teach at the secondary level in at least four social studies disciplines, including history.*
2. *Awareness of the social, political, and economic systems that comprise contemporary societies as well as the growing interdependencies between societies as mediated by a global economy and shared concern for the physical environment.*
3. *The ability to integrate and synthesize knowledge across disciplinary boundaries in order to accumulate realistic understanding of global, national, and local issues.*
4. *The ability to recognize and value the varied nature of the human condition across individuals and culture groups through the practice of social/historical analysis.*
5. *The ability to express methods of social science investigation, to conduct original studies, and to present findings of those investigations in written and oral format.*

### Assessment Procedures

National Teachers Examination (PRAXIS)  
Performance during professional semester  
Capstone course

## Bachelor of Arts

The Area of Concentration in Social Studies prepares students for teacher certification at the secondary level (grades 7 through 12) in at least four social studies teaching fields. This program aligns with trends in teacher certification that foster streamlining of certification requirements and procedures. A minimum of 9 semester

hours in a teaching field is required for certification in Kentucky. This program consists of 60 hours of credit in history and related social sciences. Students should work closely with an advisor to receive approval for the exact content of their program of study in this area of concentration. Students who seek teacher certification must include HIS 450: Teaching Social Studies, in their program as a supplemental requirement beyond the 60 hours of content courses.

## Area of Concentration in Social Science

|                                                                                                                                                                    |           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| <b>General Education Requirements</b>                                                                                                                              | <b>48</b> |
| (See general education requirements for the University.)                                                                                                           |           |
| <b>A. History Component (equivalent to history minor)</b>                                                                                                          |           |
| HIS 201--Global Studies                                                                                                                                            | 3         |
| HIS 202--American Studies                                                                                                                                          | 3         |
| HIS 210--Early World History; or                                                                                                                                   |           |
| HIS 220--Early American History                                                                                                                                    | 3         |
| HIS 250--Practicing History                                                                                                                                        | 3         |
| HIS 300-329--Advanced American History                                                                                                                             | 3         |
| HIS 350-369--Advanced European History                                                                                                                             | 3         |
| HIS 370-379--Advanced Nonwestern History                                                                                                                           | 3         |
| Advanced Elective in History                                                                                                                                       | 3         |
|                                                                                                                                                                    | <b>24</b> |
| <b>B. Economics, Geography, Government, Sociology</b>                                                                                                              |           |
| The student must complete the 3 clusters listed below:                                                                                                             |           |
| Geography                                                                                                                                                          | 9         |
| GEO 101--Introduction to Physical Geography                                                                                                                        | 3         |
| GEO 211--Economic Geography                                                                                                                                        | 3         |
| GEO 349--Cartography                                                                                                                                               | 3         |
| Government                                                                                                                                                         | 9         |
| GOVT 141--United States Government                                                                                                                                 | 3         |
| GOVT 242--State and Local Government                                                                                                                               | 3         |
| GOVT 362--Current World Problems                                                                                                                                   | 3         |
| Sociology                                                                                                                                                          | 9         |
| SOC 101--General Sociology                                                                                                                                         | 3         |
| SOC 203--Contemporary Social Problems                                                                                                                              | 3         |
| SOC 305--Cultural Anthropology; or                                                                                                                                 |           |
| SOC 354--Individual and Society                                                                                                                                    | 3         |
|                                                                                                                                                                    | <b>27</b> |
| <b>C. Distributional Course</b>                                                                                                                                    |           |
| The student must take 3 hours of economics.                                                                                                                        |           |
| <b>D. Advanced Electives</b>                                                                                                                                       |           |
| The student may take any electives in Economics, Geography, Government, History, or Sociology at the 300 level or higher. These should be approved by the advisor. |           |
| Two advanced electives                                                                                                                                             | 6         |

## Department of Music

Christopher Gallaher, Chair  
(606) 783-2473  
106 Baird Music Hall

## Music

**Faculty**--M. Acord, S. Baker, L. Berry, S. Blair, J. Burgess, A. Carlson, S. Creasap, G. Detweiler, R. J. Flippin, C. Gallaher (Chair), A. Glendening, C. Hammond, L. Keenan, R. Little, R. Miles, E. Norden, F. Oddis, R. Prindle, R. Pritchard, R. Ross, P. Taylor, G. Towell, J. Viton

### *Competencies Required in the Bachelor of Music Education Program*

#### Performance

*Students are required to declare a principal area of performance. A jury examination is required at the end of each semester. Students may elect to do a formal public recital, or appear in solo performance on no less than three Student Recitals during the junior and senior years; and enroll in an ensemble appropriate to their major instrument each semester except the professional semester; study each of the instrument groups (strings, woodwinds, brass, percussion, voice) and 4 hours of class piano.*

#### Music Theory

*Students are required to complete four semesters of music theory and three semesters of music reading to gain a basic understanding of the common elements of music (melody, harmony, rhythm, etc.)*

#### Music Literature/History

*Students should develop a historical perspective of music, particularly in regard to the various style periods.*

#### Conducting

*Students must develop skills in choral or instrumental conducting.*

#### Music Education

*Students should be able to teach new generations of students to experience the joy of expressing themselves through music.*

#### Assessment Procedures

*Survey of graduates  
Performance recitals  
Exit interview  
Senior capstone course*

The Department of Music offers a Bachelor of Music Education degree for those preparing to teach music; a Bachelor of Music degree for those planning

careers as performers, theorists, or composers; and a major and minor within the Bachelor of Arts curriculum. Musical training and performance opportunities are also provided for students who are not planning musical careers.

### General Requirements

Placement examinations and/or auditions are given in music theory, applied music (principal instrument or voice), and piano to all new music students during registration week of the fall and spring semesters. The results are used for advisement as to course and program enrollment.

Music students are required to register for student recital each semester. Regular attendance at student recital and other music programs presented on campus is expected of music students. Attendance records are kept by the chair of the Department of Music.

### Piano Proficiency Requirements

All candidates for the Bachelor of Music Education, Bachelor of Music, and Bachelor of Arts degree with principal applied areas other than keyboard instruments are required to complete the four-semester sequence of class piano. Students with some previous keyboard background are to take the Piano Placement Examination which is given during registration week.

Students pursuing the Bachelor of Music Education degree with sufficient previous keyboard training may be exempted from the class piano sequence by passing the Piano Proficiency Examination. Students in this degree program who place in an advanced level of class piano may substitute music electives to fulfill music credit requirements.

Students pursuing the Bachelor of Music degree or the Bachelor of Arts degree and successfully completing the Piano Proficiency Examination prior to the completion of Class Piano IV must fulfill the remaining required hours of piano/keyboard specified in the catalog.

### Curriculum Change

A student wishing to change from one music curriculum to another, or to make a change of principal applied area, must receive departmental approval to do so. A committee of faculty representing the appropriate specialties will be appointed to make recommendations to the department chair as the suitability of the change and the applicability of credits already earned toward the new curriculum.

### Applied Music

#### Music Fees

|                                                      |         |
|------------------------------------------------------|---------|
| Each half-hour private lesson per week, per semester | \$45.00 |
| Junior recital (two hours credit)                    | \$45.00 |
| Senior recital (two hours credit)                    | \$45.00 |
| Senior recital (three hours credit)                  | \$75.00 |
| Graduate recital                                     | \$75.00 |
| Composition recital                                  | \$75.00 |

## Private Applied Music

Each music student is required to designate a principal area of private music study and to enroll for credit in this area each semester except the professional semester. Credit may also be earned in secondary areas.

With departmental permission, private instruction may be taken by students not following a music curriculum, in which case the course standards may be different from those expected of music students. Beginning instruction will be handled, whenever possible, as class applied study rather than private study.

Credit allowed for private applied music is variable, depending on the number of lessons per week and the program in which the student is enrolled. In a given area of private study, a student is expected to practice at least one hour per day for each hour of credit being earned.

## Recitals

Recitals may be presented for credit by students who have been given approval to do so by the music faculty. Approval should be requested prior to the final private applied music examination preceding the semester in which the recital will be presented. Recital credit may be substituted for or earned in addition to private applied music credit.

## Required Recital Attendance Policy

Philosophically, the music faculty of the Department of Music supports the concept that attending concerts is an essential ingredient of a professional musician's training. Therefore, it is expected that students will attend recitals/ concerts at MSU as part of the overall study at this institution. Each faculty member who teaches applied music has implemented a policy that reflects this attitude and has established guidelines for the number of recitals required and the effect on the applied music grade.

## Ensembles

Each music student is required to participate in a major ensemble representing his or her primary performing medium each semester of residence except the student teaching semester. Ensemble assignments are determined by the department with consideration given to both student and departmental needs.

Marching band is required each fall semester for instrumental music education degree students whose principal area of private applied music is a wind or percussion instrument. All instrumental majors are required to take at least two semesters of vocal ensemble.

**NOTE:** Piano majors pursuing the BME degree will enroll in University Chorus or Concert Choir each semester as their major ensemble. Piano majors in the BM degree option may take Piano Ensemble or Accompanying as their major ensemble.

Ensembles may be taken with or without credit. A maximum of eight hours of credit in ensembles may be

applied toward fulfilling the requirements of music curricula. (Refer to the curricula requirements listed previously.)

## Bachelor of Music Education

This program is designed for students who are planning for careers as music teachers in the public schools. It includes the requirements for a twelve-grade music certificate in either vocal or instrumental music. An option for vocal and instrumental certification is also available.\*\*

**NOTE:** In order to fulfill State of Kentucky Certification guidelines, the student must complete the departmental and University education requirements. A minimum of 68-70 semester hours in the area of Music and 28 hours in professional education must be completed. Also, specific standards must be met for admission to the Teacher Education Program.

|    |                                             |       |
|----|---------------------------------------------|-------|
| 1. | APPLIED MUSIC                               | 31-33 |
|    | Principal applied area                      | 14    |
|    | Ensembles, at least two vocal               | 7-9   |
|    | *Class Piano                                | 4     |
|    | Class voice and instruments                 | 6     |
| 2. | *MUSIC THEORY                               | 16    |
|    | Music Theory I-IV                           | 10    |
|    | Music Reading I-III                         | 6     |
| 3. | MUSIC HISTORY AND LITERATURE                | 10    |
|    | Literature of Music I-II                    | 4     |
|    | History of Music I-II                       | 6     |
| 4. | CONDUCTING                                  | 4     |
|    | Basic Conducting                            | 2     |
|    | Choral Conducting; or                       |       |
|    | Instrumental Conducting                     | 2     |
| 5. | MUSIC EDUCATION                             | 6     |
|    | Introduction to Music Education             | 1     |
|    | Elementary Materials and Methods            | 3     |
|    | Vocal or Instrumental Materials and Methods | 2     |
|    | Field Experience                            | 1     |
|    |                                             | 68-70 |

\*Exemption or advanced placement possible.

\*\*Requirements for Provisional Certificate: Vocal Music K-12:

### Completion of Instrumental Requirements

|                             |    |
|-----------------------------|----|
| Private Voice               | 4  |
| Vocal Ensemble (additional) | 3  |
| Class Guitar                | 1  |
| Vocal Materials and Methods | 2  |
| Choral Conducting           | 2  |
|                             | 12 |

### Requirements for Provisional Certificate: Instrumental Music K-12

#### Completion of Vocal Requirements

|                                |    |
|--------------------------------|----|
| Private Applied (Instrumental) | 3  |
| Instrumental Ensemble          | 3  |
| Advanced Woodwinds             | 1  |
| Advanced Brasswinds            | 1  |
| Instr. Materials and Methods   | 2  |
| Instrumental Conducting        | 2  |
|                                | 12 |

## Bachelor of Music

### Competencies Required in the Bachelor of Music Program

#### Performance

Students must declare a principal area of performance. A Jury examination is required at the end of each semester, and the student must perform a half-hour Junior Recital and a one-hour Senior Recital after completing a recital hearing in the semester prior to the intended recital date; must participate in an ensemble appropriate to their major instrument each semester; must develop keyboard skills and skills in a secondary instrument as deemed appropriate to their principal instrument.

#### Music Theory/Analysis

Students are required to complete four semesters of music theory and three semesters of music reading. These requirements are intended to give each student a basic understanding of the common elements of music (melody, harmony, rhythm, etc.) and to serve as preparation of study in more advanced courses.

#### Music Literature/History

Students should develop a historical perspective of music, particularly in regard to the various style periods.

#### Conducting

Students are expected to develop skills in choral and instrumental conducting.

#### Assessment Procedures

Survey of graduates  
Performance recitals  
Exit interview  
Senior capstone course

This program is designed for students who are planning for professional careers in music either as performers or as private teachers. It does not meet the requirements for certification to teach in the public schools.

|    |                                   |    |
|----|-----------------------------------|----|
| 1. | MUSIC THEORY                      | 18 |
|    | Music Theory I-IV                 | 10 |
|    | Music Reading I-III               | 6  |
|    | Form Analysis                     | 2  |
| 2. | MUSIC HISTORY AND LITERATURE      | 10 |
|    | Literature of Music I-II          | 4  |
|    | History of Music I-II             | 6  |
| 3. | ENSEMBLES                         | 8  |
| 4. | CONDUCTING                        | 4  |
|    | Basic Conducting                  | 2  |
|    | Instrumental or Choral Conducting | 2  |

Note: Jazz and studio music students shall take basic conducting. To complete their conducting requirement, they will take Rehearsal Techniques for Jazz Ensembles (MUSC 473).

In addition to the above courses, each Bachelor of Music degree student must complete the requirements for one of the following specializations:

|    |                                                                       |    |
|----|-----------------------------------------------------------------------|----|
| 1. | VOICE                                                                 |    |
|    | Private Voice                                                         | 16 |
|    | Class Voice                                                           | 1  |
|    | Junior Recital                                                        | 2  |
|    | Senior Recital                                                        | 3  |
|    | Class and/or Private Keyboard                                         | 6  |
|    | Languages (a minimum of six semester hours each in French and German) | 12 |
|    |                                                                       | 40 |
| 2. | PIANO                                                                 |    |
|    | Private Piano                                                         | 19 |
|    | Private Organ and/or Harpsichord                                      | 7  |
|    | Junior Recital                                                        | 2  |
|    | Senior Recital                                                        | 3  |
|    | Class Voice                                                           | 1  |
|    | Piano Literature                                                      | 3  |
|    | Piano Pedagogy                                                        | 2  |
|    | Electives                                                             | 3  |
|    |                                                                       | 40 |
| 3. | ORGAN OR HARPSICHORD                                                  |    |
|    | Private Organ or Harpsichord                                          | 19 |
|    | Class or Private Piano                                                | 7  |
|    | Junior Recital                                                        | 2  |
|    | Senior Recital                                                        | 3  |
|    | Class Voice                                                           | 1  |
|    | Piano Pedagogy                                                        | 2  |
|    | Piano Literature                                                      | 3  |
|    | Electives                                                             | 3  |
|    |                                                                       | 40 |
| 4. | STRINGS                                                               |    |
|    | Private Strings                                                       | 19 |
|    | Class Piano and/or Private Keyboard                                   | 7  |
|    | Junior Recital                                                        | 2  |
|    | Senior Recital                                                        | 3  |
|    | Electives                                                             | 8  |
|    | Class Voice                                                           | 1  |
|    |                                                                       | 40 |
| 5. | WIND AND PERCUSSION INSTRUMENTS                                       |    |
|    | Private Lessons in Major Instrument                                   | 19 |
|    | Junior Recital                                                        | 2  |
|    | Senior Recital                                                        | 3  |
|    | Class Piano and/or Private Keyboard                                   | 7  |
|    | Class Voice                                                           | 1  |
|    | Arranging                                                             | 4  |
|    | Music electives                                                       | 4  |
|    |                                                                       | 40 |
| 6. | THEORY/COMPOSITION                                                    |    |
|    | Composition                                                           | 12 |
|    | Arranging                                                             | 4  |
|    | Counterpoint                                                          | 2  |
|    | Recital of Original Compositions                                      | 3  |
|    | Class and/or Private Keyboard                                         | 6  |
|    | Electives                                                             | 6  |
|    | Private Lessons in Major Instrument or Voice                          | 7  |
|    |                                                                       | 40 |
| 7. | JAZZ AND STUDIO MUSIC                                                 |    |
|    | Private Applied Music                                                 | 12 |
|    | Junior Recital                                                        | 2  |
|    | Senior Recital                                                        | 3  |
|    | Jazz Keyboard                                                         | 2  |
|    | Class Piano and/or Jazz Keyboard                                      | 4  |
|    | Jazz History and Literature                                           | 3  |
|    | Arranging for Jazz Ensembles I and II                                 | 4  |
|    | Studio Improvisation                                                  | 7  |

|                           |    |
|---------------------------|----|
| Music electives . . . . . | 3  |
|                           | 40 |

**NOTE:** Students Pursuing the Jazz and Studio Music Degree shall complete 9 hours of specific general education courses: CIS 201--Intro. to Computers; ECON 201--Prin. of Economics; and SOC 374--American Minority Relations.

## Bachelor of Arts

### *Competencies Required in the Bachelor of Arts Degree (Music)*

*Students are expected to:*

1. *Declare a principal area of performance with a jury examination at the end of each semester.*
2. *Perform in an appropriate ensemble.*
3. *Develop keyboard skills.*
4. *Develop a historical perspective of music.*
5. *Gain a basic understanding of the common elements of music.*

### *Assessment Procedures*

*Survey of graduates*  
*Performance recitals*  
*Exit interviews*

## Major

This program provides for the study of music within a liberal arts curriculum. Emphasis is upon the study and performance of musical literature. It is suitable for preparing students for careers in music other than performance and teaching music in the public schools.

|                                        |    |
|----------------------------------------|----|
| Applied Music . . . . .                | 22 |
| Private Lessons . . . . .              | 14 |
| Ensembles . . . . .                    | 4  |
| Class or Private Piano . . . . .       | 4  |
| Music Theory . . . . .                 | 16 |
| Music Theory I-IV . . . . .            | 10 |
| Music Reading I-III . . . . .          | 6  |
| Music History and Literature . . . . . | 10 |
| Literature of Music I and II . . . . . | 4  |
| History of Music I and II . . . . .    | 6  |
|                                        | 48 |

## Minor

|                                     |    |
|-------------------------------------|----|
| Applied Music . . . . .             | 14 |
| Private Lessons . . . . .           | 8  |
| Ensembles . . . . .                 | 4  |
| Class or Private Piano . . . . .    | 2  |
| Music Theory . . . . .              | 9  |
| Music Theory I-II . . . . .         | 6  |
| Music Reading I-II . . . . .        | 3  |
| Music Literature I and II . . . . . | 4  |
|                                     | 27 |

## Music Teacher's National Association Certificate Program (MTNA)

In order to provide specialized musical instruction to individuals pursuing a career as full or part-time studio teachers, Morehead State University offers course work leading to this professional certification at two levels: (1) Associate and (2) Professional. By offering courses in

this curriculum, Morehead State University will be endorsing and supporting the major MTNA mandate . . . "that professional studio teaching is a worthwhile career, and as such, deserves to be held accountable by a regulatory agency."

### 1. Associate Certificate

|                                               |    |
|-----------------------------------------------|----|
| MUST 131--Music Theory I . . . . .            | 3  |
| MUST 132--Music Theory II . . . . .           | 3  |
| MUST 133--Music Reading I; or                 |    |
| MUST 135--Music Reading II . . . . .          | 3  |
| MUSH 161--Literature of Music I . . . . .     | 2  |
| MUSH 162--Literature of Music II . . . . .    | 2  |
| MUSE 378--Piano Pedagogy . . . . .            | 2  |
| MUSW 476--Special Problems in Music . . . . . | 2  |
| Private Study . . . . .                       | 12 |
|                                               | 29 |

### 2. Professional Certificate

|                                               |    |
|-----------------------------------------------|----|
| MUST 131--Music Theory I . . . . .            | 3  |
| MUST 132--Music Theory II . . . . .           | 3  |
| MUST 236--Music Theory III . . . . .          | 2  |
| MUST 237--Music Theory IV . . . . .           | 2  |
| MUST 133--Music Reading I . . . . .           | 1  |
| MUST 135--Music Reading II . . . . .          | 2  |
| MUST 233--Music Reading III . . . . .         | 3  |
| MUSH 161--Literature of Music I . . . . .     | 2  |
| MUSH 162--Literature of Music II . . . . .    | 2  |
| MUSH 361--History of Music I . . . . .        | 3  |
| MUSH 362--History of Music II . . . . .       | 3  |
| MUSE 378--Piano Pedagogy . . . . .            | 2  |
| MUSW 476--Special Problems in Music . . . . . | 2  |
| Private Study . . . . .                       | 24 |
|                                               | 54 |

After completing the above course work, the candidate must present a teaching and performing demonstration before a jury chosen by the MTNA national certificate chairperson. It should be made clear that this is a professional certification and **that no credential is granted by Morehead State University.**

## College of Science and Technology

Gerald DeMoss (Dean)  
(606)783-2158  
246 Reed Hall

Department of Agricultural Sciences  
Department of Biological and Environmental Sciences  
Department of Human Sciences  
Department of Industrial Education and Technology  
Department of Mathematical Sciences  
Department of Nursing and Allied Health Sciences  
Department of Physical Sciences



# College of Science and Technology

## Programs

### Department of Agricultural Sciences

BS - Agricultural Education  
BS - Agricultural Science  
AAS - Agricultural Technology  
Pre-Forestry  
Pre-Veterinary Medicine  
AAS - Veterinary Technology

### Department of Biological and Environmental Sciences

BS - Biology  
BS - Environmental Science  
BS - Medical Technology  
Pre-Chiropractic  
Pre-Dentistry  
Pre-Medicine  
Pre-Pharmacy  
Pre-Physical Therapy  
Pre-Physicians Assistant  
BS - Secondary Science  
Teaching

### Department of Human Sciences

BS - Interdisciplinary Early  
Childhood Development  
BS - Vocational Family and  
Consumer Sciences  
BS - Human Sciences\*  
AAS - Human Sciences\*

\*with options

### Department of Industrial Education and Technology

AAS - Industrial Technology\*  
BS - Industrial Technology\*  
BS - Industrial Education\*

\*with options

### Department of Mathematical Sciences

BS - Mathematics  
BS - Mathematics and  
Computing

### Department of Nursing and Allied Health Sciences

AAS - Associate Degree Nursing  
BSN - Baccalaureate Nursing  
AAS - Radiologic Technology

### Department of Physical Sciences

BS - Chemistry  
BS - Geology  
BS - Physics  
Pre-Engineering  
Pre-Optometry  
Secondary Science Teaching  
Mathematics-Physical Science  
(Teaching)

## Department of Agricultural Sciences

Lane Cowsert, Chair  
(606) 783-2662  
325 Reed Hall

### Agricultural Education

Faculty--M. McDermott

#### Competencies Required in the Program

Students graduating from the Bachelor of Science degree program should possess the following:

1. Written, oral, and interpersonal communication skills; and basic math skills that will allow the individual to collect, analyze, interpret, and present information that is used within the agricultural industry.
2. An understanding of the basic concepts of the physical and biological sciences and how these sciences are applicable to the field of agriculture.
3. An understanding of the importance of the arts, humanities, social and behavioral sciences, and health sciences to humankind.
4. An understanding and literacy of all disciplines of agriculture especially to include the disciplines of animal science, agronomy, soils, horticulture, agricultural mechanics, pest management, agricultural economics, and farm management.
5. The ability to use effective planning in course organization in agricultural education.
6. The ability to plan daily instructional programs in agricultural education.
7. An understanding of occupational experience programs and their role in agricultural education.
8. An understanding of FFA and its role in agricultural education.
9. An understanding of effective management of instructional programs in agricultural education.

#### Assessment Procedures

Teacher certification examinations  
Surveys of graduating students, alumni, advisory groups, and employers

### Bachelor of Science

#### Area of Concentration

|                                                          |           |
|----------------------------------------------------------|-----------|
|                                                          | Sem. Hrs. |
| General Education Requirements .....                     | 48        |
| (See general education requirements for the University.) |           |

The student must complete a minimum of 50 semester hours credit in technical agriculture which includes at least 6 approved semester hours in each of the fields listed below. This area of concentration is designed and approved for students who wish to teach agriculture education in the public schools in Kentucky.

#### Core Requirements

|                                                 |    |
|-------------------------------------------------|----|
| Required courses in technical agriculture ..... | 50 |
|-------------------------------------------------|----|

|                                           |    |
|-------------------------------------------|----|
| AGR Agricultural Economics .....          | 6  |
| AGR Agricultural Mechanics .....          | 6  |
| AGR Animal Science .....                  | 6  |
| AGR Horticultural and Plant Science ..... | 6  |
| AGR Soil Science .....                    | 6  |
| AGR--approved agriculture electives ..... | 20 |

|                                                              |     |
|--------------------------------------------------------------|-----|
| Required courses in professional agriculture education ..... | 29  |
| VOC 207--Foundations of Vocational Education .....           | 3   |
| EDF 211--Human Growth and Development .....                  | 3   |
| EDSP 332--Teaching the Exceptional Student .....             | 2   |
| AGR 388--Methods of Curriculum Development .....             | 3   |
| AGR 392--Methods of Instructional Technology .....           | 3   |
| AGR 470--Methods of Instruction .....                        | 3   |
| AGR 478--Student Teaching Practicum .....                    | 12  |
|                                                              | 128 |

### Teacher Certification

Students seeking teacher certification must apply for and be admitted to the teacher education program. Students must have an overall standing of 2.50 in the area of concentration courses before they will be permitted to take agricultural education courses. Students must be approved by the agricultural staff and recommended for certification.

### Agricultural Science

Faculty--D. Applegate, L. Cowsert (Chair), D. Johnson, B. Rogers, S. Rundell, J. Willard, R. Wolfe

#### Competencies Required in the Program

Students graduating from the Bachelor of Science degree program should possess the following:

1. Written, oral, and interpersonal communications skills; and basic math skills that will allow the individual to collect, analyze, interpret, and present information that is used within the agricultural industry.
2. An understanding of the basic concepts of the physical and biological sciences and how these sciences are applicable to the field of agriculture.
3. An understanding of the importance of the arts, humanities, social and behavioral sciences, and health sciences to humankind.
4. An understanding and literacy of all disciplines of agriculture especially to include the disciplines of animal science, agronomy, soils, horticulture, agricultural mechanics, pest management, agricultural economics, and farm management.

#### Additional Competencies for Specific Options

##### Agribusiness Option

- A. An understanding of the principles of accounting and how they are used in agribusiness.

##### Agricultural Economics Option

- A. An understanding of the principles of economics and how they are used in agricultural economics.

**Agronomy Option**

- A. *An understanding and the ability to apply the principles of soil conservation and weed science to crop production and also an understanding of how certain crops are utilized by farm animals.*

**Animal Science Option**

- A. *The ability to demonstrate techniques used in the evaluation and feeding of farm livestock.*

**Golf Course Management Option**

- A. *An understanding of the selection, establishment, and maintenance of plants used on the golf course.*
- B. *An understanding of the business, horticultural, and recreational aspects of golf course management.*

**Horticulture Option**

- A. *An understanding of the basic principles involved in the production and propagation of horticultural plants.*

**Assessment Procedures**

*Exit examination*

*Surveys of graduating students, alumni, advisory groups, and employers*

**Bachelor of Science**

**General Education Requirements** ..... 48  
(See general education requirements for the University.)

The following specific general education requirements must be completed:

|                                                                                                         |   |
|---------------------------------------------------------------------------------------------------------|---|
| AGR 261--Information, Acquisition, and Analysis                                                         | 3 |
| AGR 204--World Food                                                                                     | 3 |
| BIOL 150--Introduction to Plant Science                                                                 | 3 |
| CHEM 101--Survey of General Chemistry                                                                   | 4 |
| MATH 131--Mathematics Reasoning and Problem Solving; or<br>MATH 135--Mathematics for Technical Students | 3 |

**Area of Concentration**

The student must complete a minimum of 57 semester hours in the area of concentration in agricultural science. Of which 33 semester hours are the following core agriculture course requirements and 24 semester hours are approved course electives selected from within one of the following seven options: agribusiness, agricultural economics, agronomy, animal science, general agriculture, golf course management, or horticulture. General course electives may also be taken in agriculture and related fields by students wishing greater depth in an agricultural field.

**Core Requirements**

Required Courses in Agriculture:

|                                                 |   |
|-------------------------------------------------|---|
| AGR 101--Orientation to Agriculture             | 1 |
| AGR 102--Agricultural Experience                | 2 |
| AGR 133--Introduction to Animal Science         | 3 |
| AGR 180--Introduction to Field Crops            | 3 |
| AGR 211--Soils                                  | 3 |
| AGR 215--Horticultural Science                  | 3 |
| AGR 251--Introduction to Agricultural Mechanics | 3 |

|                                                                                    |   |
|------------------------------------------------------------------------------------|---|
| AGR 300--Pest Management                                                           | 3 |
| AGR 301--Farm Management                                                           | 3 |
| *AGR 402--Advanced Agricultural Experience<br>(or approved co-operative education) | 2 |
| AGR 499C--Senior Seminar in Agriculture                                            | 3 |
| CHEM 201--Survey of Organic Chemistry                                              | 4 |

\*Students may apply no more than a maximum of 11 hours credit from AGR 235, AGR 402, AGR 476, or cooperative education courses that will count as credit toward a degree.

Twenty-four semester hours must be taken in one of the options on the following pages.

**Agribusiness Option**

Students who select this option must complete the required core courses in the area of concentration in agricultural science and 24 semester hours of requirements and electives, with advisor's approval, as follows:

**Required**

|                                      |   |
|--------------------------------------|---|
| ACCT 281--Principles of Accounting I | 3 |
|--------------------------------------|---|

Twenty-one hours from the following groups, with courses from at least 3 groups, must be completed:

**Group A**

|                                 |   |
|---------------------------------|---|
| AGR 302--Agriculture Finance    | 3 |
| FIN 252--Mathematics of Finance | 3 |
| FIN 264--Personal Finance       | 3 |
| FIN 342--Money and Banking      | 3 |
| FIN 560--Financial Markets      | 3 |

**Group B**

|                                        |   |
|----------------------------------------|---|
| BIS 136--Business Calculations         | 3 |
| BIS 363--Administrative Office Systems | 3 |
| MNGT 301--Principles of Management     | 3 |
| MNGT 311--Personnel Management         | 3 |

**Group C**

|                                         |   |
|-----------------------------------------|---|
| AGR 305--Marketing Farm Products        | 3 |
| MKT 304--Marketing                      | 3 |
| MKT 350--Salesmanship                   | 3 |
| MKT 354--Consumer Behavior              | 3 |
| MKT 453--Market Planning and Strategies | 3 |

**Group D**

|                                                           |   |
|-----------------------------------------------------------|---|
| MNGT 261--The Legal Environment of Business Organizations | 3 |
| MNGT 362--The Legal Environment and Business Practices    | 3 |

**Group E**

|                                       |   |
|---------------------------------------|---|
| AGR 303--Land Economics               | 3 |
| ACCT 282--Principles of Accounting II | 3 |
| ACCT 387--Income Tax                  | 3 |

**Agriculture Economics Option**

Students who select this option must complete the required core courses in the area of concentration in agricultural science and 24 semester hours of requirements and electives in agriculture and economics. Requirements and electives are listed below:

|                                        |   |
|----------------------------------------|---|
| Required courses                       | 9 |
| ECON 202--Principles of Microeconomics | 3 |
| ECON 350--Microeconomics Theory        | 3 |
| ECON 451--Macroeconomics Theory        | 3 |

Fifteen semester hours must be completed from the following courses, with approval of advisor:

|                              |   |
|------------------------------|---|
| AGR 302--Agriculture Finance | 3 |
|------------------------------|---|

|                                           |   |
|-------------------------------------------|---|
| AGR 303--Land Economics                   | 3 |
| AGR 386--Introductory Agricultural Policy | 3 |
| ECON 410--History of Economic Thought     | 3 |
| FIN 342--Money and Banking                | 3 |
| FIN 343--Investments                      | 3 |
| ECON 447--International Economics         | 3 |
| MATH 354--Business Statistics             | 3 |

## Agronomy Option

Students must complete the required core courses in the area of concentration in agricultural science and 24 semester hours of requirements and electives, with advisor's approval. Requirements and electives are listed below:

|                            |   |
|----------------------------|---|
| Required Courses           | 9 |
| AGR 308--Weed Science      | 3 |
| AGR 311--Soil Conservation | 3 |
| AGR 316--Feeds and Feeding | 3 |

Fifteen semester hours must be completed from the following courses, with approval of advisor:

|                                              |   |
|----------------------------------------------|---|
| AGR 205--Farm Records                        | 3 |
| AGR 303--Land Economics                      | 3 |
| AGR 312--Soil Fertility and Fertilizers      | 3 |
| AGR 314--Plant Propagation                   | 3 |
| AGR 319--Herbs                               | 3 |
| AGR 320--Principles of Vegetable Production  | 3 |
| AGR 325--Turf Management                     | 3 |
| AGR 350--Farm Power and Machinery Management | 3 |
| AGR 384--Forage Crops                        | 3 |
| BIOL 215--General Botany                     | 4 |
| BIOL 334--Entomology                         | 3 |
| BIOL 426--Plant Physiology                   | 3 |
| BIOL 514--Plant Pathology                    | 3 |
| BIOL 550--Plant Anatomy                      | 3 |
| CHEM 326--Organic Chemistry I                | 3 |

## Animal Science Option

Students must complete the required core courses in the area of concentration in agricultural science and 24 semester hours of requirements and electives, with advisor's approval. Requirements and electives are listed below:

|                               |   |
|-------------------------------|---|
| Required Courses              | 6 |
| AGR 222--Livestock Evaluation | 3 |
| AGR 316--Feeds and Feeding    | 3 |

Eighteen semester hours must be selected from the following courses, with approval of advisor:

|                                           |   |
|-------------------------------------------|---|
| AGR 221--Equitation                       | 3 |
| AGR 243--Equine Health and Diseases       | 3 |
| AGR 245--Horseshoeing                     | 3 |
| AGR 329--Advanced Stockseat Horsemanship  | 3 |
| AGR 330--Livestock Improvement            | 3 |
| AGR 332--Advanced Saddleseat Horsemanship | 3 |
| AGR 333--Advanced Huntseat Horsemanship   | 3 |
| AGR 335--Equitation Teaching              | 3 |
| AGR 336--Dairy Production                 | 3 |
| AGR 337--Poultry Production               | 3 |
| AGR 338--Livestock Judging                | 3 |
| AGR 342--Horse Production                 | 3 |
| AGR 343--Beef Production                  | 3 |
| AGR 344--Swine Production                 | 3 |
| AGR 345--Sheep Production                 | 3 |

|                                           |   |
|-------------------------------------------|---|
| AGR 380--Equine Management                | 3 |
| AGR 480--Equine Breeding and Reproduction | 3 |
| AGR 515--Animal Nutrition                 | 3 |

## General Agriculture Option

Students must complete the required core courses in the area of concentration in agricultural science and 24 semester hours of approved electives from the list below. The minimum number of semester hours for each of the following six fields must be completed:

|                                          |   |
|------------------------------------------|---|
| (1)--Agriculture economics               | 3 |
| AGR 205--Farm Records                    | 3 |
| AGR 302--Agriculture Finance             | 3 |
| AGR 303--Land Economics                  | 3 |
| AGR 305--Marketing of Farm Products      | 3 |
| AGR 386--Introductory Agriculture Policy | 3 |

|                                              |   |
|----------------------------------------------|---|
| (2)--Agricultural mechanics                  | 3 |
| AGR 350--Farm Power and Machinery Management | 3 |

|                                     |   |
|-------------------------------------|---|
| (3)--Animal science                 | 6 |
| AGR 222--Livestock Evaluation       | 3 |
| AGR 243--Equine Health and Diseases | 3 |
| AGR 336--Dairy Production           | 3 |
| AGR 337--Poultry Production         | 3 |
| AGR 338--Livestock Judging          | 3 |
| AGR 342--Horse Production           | 3 |
| AGR 343--Beef Production            | 3 |
| AGR 344--Swine Production           | 3 |
| AGR 515--Animal Nutrition           | 3 |

|                                             |   |
|---------------------------------------------|---|
| (4)--Plant science                          | 6 |
| AGR 212--Landscape Plants                   | 3 |
| AGR 213--Landscape Design                   | 3 |
| AGR 224--Greenhouse Operations              | 3 |
| AGR 308--Weed Science                       | 3 |
| AGR 314--Plant Propagation                  | 3 |
| AGR 315--Fruit Production                   | 3 |
| AGR 317--Floral Design                      | 3 |
| AGR 318--Landscape Maintenance              | 3 |
| AGR 319--Herbs                              | 3 |
| AGR 320--Principles of Vegetable Production | 3 |
| AGR 323--Interior Landscaping               | 3 |
| AGR 324--Greenhouse Structures              | 3 |
| AGR 325--Turf Management                    | 3 |
| AGR 326--Nursery Management                 | 3 |
| AGR 327--Advanced Landscape Design          | 3 |
| AGR 328--Floral Crop Production             | 3 |
| AGR 384--Forage Crops                       | 3 |

|                                         |   |
|-----------------------------------------|---|
| (5)--Soil science                       | 3 |
| AGR 311--Soil Conservation              | 3 |
| AGR 312--Soil Fertility and Fertilizers | 3 |

|                                      |   |
|--------------------------------------|---|
| (6)--Approved Agricultural Electives | 3 |
|--------------------------------------|---|

## Golf Course Management Option

Students who select this option must complete the required core courses in the area of concentration in agricultural science and 24 semester hours of requirements, with advisor's approval, as follows:

|                           |   |
|---------------------------|---|
| Required Courses          |   |
| AGR 212--Landscape Plants | 3 |
| AGR 308--Weed Science     | 3 |

|                                                    |   |
|----------------------------------------------------|---|
| AGR 318--Landscape Maintenance                     | 3 |
| MNGT 310--Small Business Organization              | 3 |
| MKT 354--Consumer Behavior                         | 3 |
| PHED 223--Individual Sports II                     | 2 |
| REC 286--Recreation Leadership                     | 2 |
| REC 522--Park Management Resource and Operation    | 3 |
| REC 526--Fiscal Management in Parks and Recreation | 3 |

## Horticulture Option

Students must complete the required core courses in the area of concentration in agricultural and 24 semester hours of requirements and electives. Requirements and electives are listed below:

### Required Course

|                            |   |
|----------------------------|---|
| AGR 314--Plant Propagation | 3 |
|----------------------------|---|

Twenty-one semester hours must be selected from the following courses, with approval of advisor:

|                                             |   |
|---------------------------------------------|---|
| AGR 212--Landscape Plants                   | 3 |
| AGR 213--Landscape Design                   | 3 |
| AGR 224--Greenhouse Operations              | 3 |
| AGR 308--Weed Science                       | 3 |
| AGR 315--Fruit Production                   | 3 |
| AGR 317--Floral Design                      | 3 |
| AGR 318--Landscape Maintenance              | 3 |
| AGR 319--Herbs                              | 3 |
| AGR 320--Principles of Vegetable Production | 3 |
| AGR 323--Interior Landscaping               | 3 |
| AGR 324--Greenhouse Structures              | 3 |
| AGR 325--Turf Management                    | 3 |
| AGR 326--Nursery Management                 | 3 |
| AGR 327--Advanced Landscape Design          | 3 |
| AGR 328--Floral Crop Production             | 3 |
| BIOL 318--Local Flora                       | 3 |

## Major

The student must complete the core course requirements listed under the area of concentration in agricultural science (see page 97), six additional semester hours of approved agriculture electives, and a major or minor selected in another field. General course electives may also be taken in agriculture and related areas by students wishing greater depth in an agriculture field.

## Minor

The student must complete the following agriculture courses and five semester hours of approved agriculture courses, plus a major selected in another field. General course electives may also be taken in agriculture and related areas by students wishing greater depth in agriculture.

|                                         |    |
|-----------------------------------------|----|
| Required courses in agriculture         | 21 |
| AGR 101--Orientation to Agriculture     | 1  |
| AGR 133--Introduction to Animal Science | 3  |
| AGR 180--Introduction to Field Crops    | 3  |
| AGR 204--World Food                     | 3  |
| AGR 211--Soils                          | 3  |
| AGR 215--Horticultural Science          | 3  |
| Approved AGR courses                    | 5  |

## Agricultural Technology

**Faculty**--D. Applegate, L. Cowser (chair), D. Johnson, B. Rogers, S. Rundell, J. Willard, R. Wolfe

### Competencies Required in the Program

*Students graduating in Agriculture with an Associate degree should possess the following:*

1. *Written, oral, and interpersonal communication skills; and basic math skills that will allow the individual to collect, analyze, interpret, and present information that is used within the agricultural industry.*
2. *An understanding of the basic concepts of the physical and biological sciences and how these sciences are applicable to the field of agriculture.*
3. *An understanding and literacy of all disciplines of agriculture especially to include the disciplines of animal science, agronomy, soils, horticulture, agricultural mechanics, and pest management.*

### Additional Competencies for Specific Options

#### Agribusiness Option

- A. *An understanding of the principles of economics and management and how they are used in agribusiness.*

#### Equine Technology Option

- A. *An understanding of the current principles of equine production.*

#### Ornamental Horticulture Option

- A. *An understanding of the basic principles involved in the production of ornamental crops.*
- B. *The ability to utilize ornamental crops for the benefit of society.*

### Assessment Procedures

*Exit examination*

*Surveys of graduating students, alumni, advisory groups, and employers*

## Associate of Applied Science (Two-Year Program)

|                                                          |    |
|----------------------------------------------------------|----|
| General Education Requirements                           | 21 |
| (See general education requirements for the University.) |    |

The following specific general education requirements must be completed:

|                                                         |   |
|---------------------------------------------------------|---|
| AGR 204--World Food                                     | 3 |
| AGR 261--Information, Acquisition, and Analysis         | 3 |
| MATH 131--Mathematics Reasoning and Problem Solving; or |   |
| MATH 135--Mathematics for Technical Students            | 3 |

The student must complete a minimum of 51 semester hours in the area of agricultural technology, of which 33 semester hours are the following core agriculture course requirements and 18 semester hours are approved

electives selected from within one of the following four options:

### Core Requirements

#### Required Courses

|                                                 |   |
|-------------------------------------------------|---|
| AGR 101--Orientation to Agriculture             | 1 |
| AGR 102--Agricultural Experience                | 2 |
| AGR 133--Introduction to Animal Science         | 3 |
| AGR 180--Introduction to Field Crops            | 3 |
| AGR 205--Farm Records                           | 3 |
| AGR 211--Soils                                  | 3 |
| AGR 215--Horticultural Science                  | 3 |
| *AGR 235--Supervised Work Experience            | 2 |
| AGR 251--Introduction to Agricultural Mechanics | 3 |
| AGR 300--Pest Management                        | 3 |
| BIOL 150--Introduction to Plant Science         | 3 |
| CHEM 101--Survey of General Chemistry           | 4 |

\*Students may apply no more than a maximum of 11 hours credit from AGR 235, AGR 402, AGR 476, or cooperative education courses that will count as credit toward a degree.

Eighteen semester hours must be taken in one of the options listed below:

### Agribusiness Option

The student must complete the core courses in agricultural technology and required and elected courses as follows:

#### Required Courses

|                               |   |
|-------------------------------|---|
| AGR 301--Farm Management      | 3 |
| ECON 101--Survey of Economics | 3 |

Nine hours must be selected from the following courses, with approval of advisor.

|                                                       |   |
|-------------------------------------------------------|---|
| ACCT 281--Principles of Accounting I                  | 3 |
| ACCT 282--Principles of Accounting II                 | 3 |
| AGR 302--Agricultural Finance                         | 3 |
| AGR 305--Marketing of Farm Products                   | 3 |
| CIS 301--Microcomputers                               | 3 |
| ECON 201--Principles of Macroeconomics                | 3 |
| ECON 202--Principles of Microeconomics                | 3 |
| MNGT 261--Legal Environment of Business Organizations | 3 |
| MKT 350--Salesmanship                                 | 3 |
| BIS 136--Business Calculations                        | 3 |

### Agricultural Production Option

(Agronomy and/or Animal Science)

This option is designed for students interested in agronomy or animal science. Both areas are included in the Agricultural Production Option because they are interrelated.

The student must complete the core courses in agricultural technology and select 18 hours from the following courses with at least one (1) course from each group, with approval of advisor.

#### Group A

|                                         |   |
|-----------------------------------------|---|
| AGR 308--Weed Science                   | 3 |
| AGR 311--Soil Conservation              | 3 |
| AGR 312--Soil Fertility and Fertilizers | 3 |
| AGR 314--Plant Propagation              | 3 |
| AGR 325--Turf Management                | 3 |
| AGR 384--Forage Crops                   | 3 |

|                       |   |
|-----------------------|---|
| BIOL 215--Botany      | 4 |
| BIOL 318--Local Flora | 3 |

#### Group B

|                                      |   |
|--------------------------------------|---|
| AGR 301--Farm Management             | 3 |
| AGR 302--Agricultural Finance        | 3 |
| AGR 305--Marketing of Farm Products  | 3 |
| ACCT 281--Principles of Accounting I | 3 |

#### Group C

|                                     |   |
|-------------------------------------|---|
| AGR 222--Livestock Evaluation       | 3 |
| AGR 243--Equine Health and Diseases | 3 |
| AGR 316--Feeds and Feeding          | 3 |
| AGR 330--Livestock Improvement      | 3 |
| AGR 336--Dairy Production           | 3 |
| AGR 337--Poultry Production         | 3 |
| AGR 338--Livestock Judging          | 3 |
| AGR 343--Beef Production            | 3 |
| AGR 344--Swine Production           | 3 |
| AGR 345--Sheep Production           | 3 |

### Equine Technology Option

The student must complete the core courses in agricultural technology and the following required and elective courses.

#### Required Courses

|                                     |   |
|-------------------------------------|---|
| AGR 243--Equine Health and Diseases | 3 |
| AGR 342--Horse Production           | 3 |
| AGR 380--Equine Management          | 3 |

Nine semester hours must be selected from the following courses, with approval of advisor.

|                                           |   |
|-------------------------------------------|---|
| AGR 221--Equitation                       | 3 |
| AGR 222--Livestock Evaluation             | 3 |
| AGR 245--Horseshoeing                     | 3 |
| AGR 329--Advanced Stockseat Horsemanship  | 3 |
| AGR 332--Advanced Saddleseat Horsemanship | 3 |
| AGR 333--Advanced Huntseat Horsemanship   | 3 |
| AGR 335--Equitation Teaching              | 3 |
| AGR 338--Livestock Judging                | 3 |
| AGR 384--Forage Crops                     | 3 |

(A maximum of 3 hours as AGR 329 or AGR 332 or AGR 333 may be applied to the option.)

### Ornamental Horticulture Option

The student must complete the core courses in agricultural technology and required and elected courses as follows.

#### Required Course

|                            |   |
|----------------------------|---|
| AGR 314--Plant Propagation | 3 |
|----------------------------|---|

Fifteen semester hours must be selected from the following courses, with approval of advisor.

|                                             |   |
|---------------------------------------------|---|
| AGR 212--Landscape Plants                   | 3 |
| AGR 213--Landscape Design                   | 3 |
| AGR 224--Greenhouse Operations              | 3 |
| AGR 308--Weed Science                       | 3 |
| AGR 315--Fruit Production                   | 3 |
| AGR 317--Floral Design                      | 3 |
| AGR 318--Landscape Maintenance              | 3 |
| AGR 319--Herbs                              | 3 |
| AGR 320--Principles of Vegetable Production | 3 |
| AGR 323--Interior Landscaping               | 3 |
| AGR 324--Greenhouse Structures              | 3 |
| AGR 325--Turf Management                    | 3 |

|                                    |   |
|------------------------------------|---|
| AGR 326--Nursery Management        | 3 |
| AGR 327--Advanced Landscape Design | 3 |
| AGR 328--Floral Crop Production    | 3 |
| HS 103--Interior Graphics          | 3 |

## Horsemanship

**Faculty**--J. Willard

### Minor

The student must complete a minimum of the 21 semester hours of agriculture courses in the following list and a major selected in another field. General course electives may also be taken in horsemanship, agriculture, and related areas by students wishing greater depth in horsemanship.

#### Course Requirements

|                                     |   |
|-------------------------------------|---|
| AGR 221--Equitation                 | 3 |
| AGR 243--Equine Health and Diseases | 3 |
| AGR 335--Equitation Teaching        | 3 |
| AGR 342--Horse Production           | 3 |
| Approved Electives                  | 3 |

Students must select 6 hours from the following:

|                                           |   |
|-------------------------------------------|---|
| AGR 329--Advanced Stockseat Horsemanship  | 3 |
| AGR 332--Advanced Saddleseat Horsemanship | 3 |
| AGR 333--Advanced Huntseat Horsemanship   | 3 |

## Pre-Forestry

**Faculty**--R. Wolfe, B. Rogers

Students interested in forestry may take their first two years of course work at Morehead State University and then complete their studies at an accredited school of forestry. If at the end of two years a student does not secure admission to an accredited school of forestry, most of the credits earned may be applied toward a degree at Morehead State University. The program may be modified to meet entrance requirements at any institution offering a forestry program.

#### Required Course Sequence

|                                                     |    |
|-----------------------------------------------------|----|
| <b>First Semester</b>                               | 17 |
| ENG 100--Writing I                                  | 3  |
| BIOL 150--Introduction to Plant Science             | 3  |
| CHEM 101--Survey of General Chemistry               | 4  |
| MATH 175--Analytic Geometry and Calculus I          | 4  |
| PHED--activity course                               | 1  |
| General elective                                    | 2  |
| <b>Second Semester</b>                              | 16 |
| *ENG 200--Writing II                                | 3  |
| AGR 180--Introduction to Field Crops                | 3  |
| CHEM 201--Survey of Organic Chemistry               | 4  |
| MATH 353--Statistics                                | 3  |
| PHED--activity course                               | 1  |
| General elective                                    | 2  |
| <b>Third Semester</b>                               | 17 |
| SOC 170--Rural Sociology                            | 3  |
| PHYS 201, 201A--Elementary Physics I and Laboratory | 4  |

|                                                 |    |
|-------------------------------------------------|----|
| BIOL 215--General Botany                        | 4  |
| CON 210--Surveying I                            | 3  |
| AGR 211--Soils                                  | 3  |
| <b>Fourth Semester</b>                          | 15 |
| HIS 202--American Studies                       | 3  |
| SPCH 108--Fundamentals of Speech Communications | 3  |
| ECON 201--Principles of Macroeconomics          | 3  |
| PSY 154--Introduction to Psychology             | 3  |
| ENG--literature elective                        | 3  |
|                                                 | 55 |

\*Must be paired with a general education area studies course.

## Pre-Veterinary Medicine

**Faculty**--P. Prater, S. W. Rundell, J. Willard

The Pre-Veterinary Medicine Program is a pre-professional program designed to prepare students for admission to a College of Veterinary Medicine leading to the Doctor of Veterinary Medicine (DVM) degree. Since each veterinary college has its own specific requirements which must be met prior to admission, it is essential that the student investigate the requirements for each college to which they may apply.

Admission to veterinary college is very state oriented. States which have a veterinary college give priority to their own residents but may contract with states that do not have a veterinary college to accept a certain number of out-of-state students per year. In addition, a limited number of out-of-state, non-contract positions may be available.

The Commonwealth of Kentucky is a participating member in the Southern Regional Education Board Contract Program under which legal Kentucky residents may attend veterinary college at Auburn University or Tuskegee University in Alabama. Students accepted to veterinary college under this contract program pay only the in-state tuition of that university.

Residents of states other than Kentucky may complete the pre-veterinary requirements for the veterinary college of their state at Morehead State University. West Virginia residents may apply under contract to Ohio State University, University of Georgia, and Tuskegee University. The transfer of courses to satisfy the specific requirements of a particular college must be negotiated in advance to assure acceptance. The students must work closely with the pre-veterinary advisor in making the appropriate contracts.

Although a degree is not required for admission to veterinary college, it is advisable to work toward a degree in conjunction with the pre-veterinary requirements. Suitable degree programs include Veterinary Technology, Equine Technology, Agriculture, Biology, and Chemistry. An academic handbook and curriculum development advice are available from the pre-veterinary advisor.

The following courses are required of Kentucky residents applying for admission to the Auburn University College of Veterinary Medicine:

|                                                  |       |
|--------------------------------------------------|-------|
| ENG 100--Writing I                               | 3     |
| **ENG 200--Writing II                            | 3     |
| ENG 391--Advanced Expository Writing             | 3     |
| ENG 211--Introduction to World Literature I      | 3     |
| ENG 212--Introduction to World Literature II     | 3     |
| FNA 160--Understanding the Visual Arts           | 3     |
| *MATH 152--College Algebra                       | 3     |
| MATH 174--Pre-Calculus;                          |       |
| MATH 175--Analytic Geometry and Calculus I; or   |       |
| MATH 160--Mathematics for Business and Economics | 3/4   |
| PHIL 203--Social Ethics; or                      |       |
| PHIL 306--Introduction to Logic                  | 3     |
| HIS 210--Early World History                     | 3     |
| HIS 201--Global Studies                          | 3     |
| CHEM 111--Principles of Chemistry I              | 4     |
| CHEM 112--Principles of Chemistry II             | 4     |
| CHEM 326--Organic Chemistry I                    | 4     |
| CHEM 327--Organic Chemistry II                   | 4     |
| PHYS 201--Elementary Physics I                   | 4     |
| PHYS 202--Elementary Physics II                  | 4     |
| BIOL 171--Principles of Biology                  | 4     |
| BIOL 210--General Zoology                        | 4     |
| #AGR 515--Animal Nutrition                       | 3     |
| Social Science electives                         | 6     |
| Science electives (300 level)                    | 12-14 |

\*Not required, but recommended

\*\*Must be paired with a general education area studies course.

#AGR 316--Feeds and Feeding is pre-requisite

## Veterinary Technology

**Faculty**--V. Barnes, B. Lewis, P. Prater, S. Rundell (Coordinator)

### Competencies Required in the Program

Students receiving an Associate of Applied Sciences Degree in Veterinary Technology should possess competencies in the following areas as defined by the American Veterinary Medical Association:

1. General Competencies
  - A. Written, oral and interpersonal communication skills.
  - B. Applied mathematical skills applicable to the field of veterinary technology.
  - C. An awareness of the physical and biological concepts applicable to the field of veterinary technology.
  - D. An appreciation of the liberal arts.
2. Specific competencies:
  - A. Anesthesia, including induction, monitoring, and instrumentation.
  - B. Animal husbandry, including restraint, behavior, species and breed identification, reproduction, sex determination, and human-animal bonding.
  - C. Diseases, preventive medicine (including dentistry), and nursing of companion animals, food-production animals, horses, and laboratory animals.
  - D. Economics of veterinary practice

- E. Ethics, professionalism, and legal applications in veterinary medicine.
- F. Humane animal care and management.
- G. Basic laboratory animal technology.
- H. Medical terminology.
- I. Necropsy techniques.
- J. Nutrition and principles of feeding.
- K. Orientation to the vocation of veterinary technology.
- L. Pharmacology for veterinary technicians.
- M. Principles of imaging, including radiography and ultrasonography.
- N. Professional organizations and continuing education for graduate technicians.
- O. Surgical nursing and assisting, including instrumentation.
- P. Technician utilization and team concepts of health care delivery.
- Q. Veterinary anatomy and physiology.
- R. Veterinary clinical pathology and parasitology.
- S. Veterinary microbiology and immunology.
- T. Veterinary office management.
- U. Elementary computer skills pertaining to veterinary technology.
- V. Zoonoses, occupational health hazards, and waste disposal.

3. In addition, students should have the skills necessary to assume responsibility for self-development and lifelong learning in the field of veterinary technology.

### Assessment Procedures

*Advisory Board consultation*  
*Evaluation by accrediting organization (AVMA)*  
*Exit examination*  
*Survey of employers*  
*Survey of graduates*  
*Graduate performance on state board examinations*

## Associate of Applied Science (Five-Semester Program)

The MSU Veterinary Technology Associate Degree Program is approved by the Kentucky Veterinary Medical Association and accredited by the American Veterinary Medical Association. Graduates are eligible to write the National Board Examination for state licensure as a Registered Veterinary Technician.

The Veterinary Technology Program has a selective admission policy, which is separate from and in addition to the University's admission procedures. Admission to the University does not guarantee admission to the Veterinary Technology Program.

In addition to acceptance by the University, applicants must apply for admission to the Veterinary Technology Associate Degree Program and meet the following criteria:

### Special Admission Requirements

1. Admission to Morehead State University
  - A. Full admission to Morehead State University without conditions  
*Students who are admitted as provisional or are required to take developmental courses must complete those requirements with acceptable grades prior to admission to the program.*
2. Admission to Veterinary Technology Program
  - A. First-time Freshmen:
    - 1) High school graduation or GED
    - 2) minimum high school G.P.A. of 2.8 on 4.0 scale
    - 3) ACT Composite Score of at least 20
    - 4) ACT subscores which permit enrollment in courses required by the program
  - B. College Students:
    - 1) At least 12 hours of approved college course work
    - 2) Minimum G.P.A. of 2.5 on 4.0 scale in approved college course work
    - 3) Approved course work may include:
      - (a) general education courses applicable to the Veterinary Technology Associate Degree Program;
      - (b) animal science, biology, chemistry, mathematics, computer skills, medical terminology, office management, or ethics.
  - C. All applicants
    - 1) Significant work experience with a veterinarian
    - 2) Written recommendation from the above veterinarian

### Required Course Sequence

General Education Requirements: Students must complete the general education requirements for an Associate of Applied Sciences degree. Any course approved by the University for each of the following categories may be taken, unless otherwise specified:

|                                                                 |   |
|-----------------------------------------------------------------|---|
| ENG 100--Writing I                                              | 3 |
| *ENG 200--Writing II plus Area Studies -<br>(AGR 204 preferred) | 6 |
| SPCH 108--Fundamentals of Speech Communications                 | 3 |
| MATH 135--Mathematics for Technical Students; or higher         | 3 |

|                                                                          |    |
|--------------------------------------------------------------------------|----|
| CIS 101--Computers for Learning; or                                      |    |
| AGR 261--Information Acquisition and Analysis                            | 3  |
| Humanities or Social/Behavioral Sciences<br>(not paired with Writing II) | 3  |
|                                                                          | 21 |

\*Must be paired with a general education area studies course.

### Program Core Requirements

|                                                   |           |
|---------------------------------------------------|-----------|
| AGR 133--Introduction to Animal Science           | 3         |
| BIOL 213--Introduction to Veterinary Microbiology | 4         |
| CHEM 101--Survey of General Chemistry             | 4         |
| VET 108--Veterinary Clinical Anatomy              | 3         |
| VET 110--Animal Care Techniques I                 | 2         |
| VET 111--Animal Care Techniques II                | 2         |
| VET 211--Animal Care Techniques III               | 2         |
| VET 212--Veterinary Surgical Nursing              | 2         |
| VET 233--Veterinary Physiology & Pharmacology I   | 2         |
| VET 234--Veterinary Physiology & Pharmacology II  | 2         |
| VET 216--Veterinary Clinical Pathology I          | 2         |
| VET 217--Veterinary Clinical Pathology II         | 2         |
| VET 255--Large Animal Clinics I                   | 6         |
| VET 256--Small Animal Clinics I                   | 6         |
| VET 355--Large Animal Clinics II                  | 6         |
| VET 356--Small Animal Clinics II                  | 6         |
| VET 363--Veterinary Preceptorship (off Campus)    | 1         |
| <b>Program Core-total</b>                         | <b>55</b> |

## Department of Biological and Environmental Sciences

Joe E. Winstead, Chair  
 (606) 783-2944  
 j.winstead@morehead-st.edu  
 103 Lappin Hall

**Faculty**--G. DeMoss, D. Eisenhour, G. Gearner, D. Magrane, L. Meade, T. Pass, B. Reeder, A. Risk, D. Saxon, D. Smith, C. Tuerk, J. Winstead

The Department of Biological and Environmental Sciences offers a comprehensive major and minor in biology; an area in teaching biological science; an area of concentration in environmental science; an area in medical technology; and pre-professional programs in pre-chiropractic, pre-dentistry, pre-medicine, pre-pharmacy, pre-physician assistant and pre-physical therapy. The department also provides specific courses to support the academic programs of other departments. The biological and environmental science programs are designed to provide strong foundations for the development of professionals in the specific areas outlined. The student must work closely with his/her advisor to assure that proper course sequences are followed.

## Bachelor of Science

### Non-Teaching Major

#### Competencies Required in the Program

*Students graduating with the Bachelor of Science degree in Biology should possess the following:*

1. *Written, oral and interpersonal communication skills in the sciences that will allow the graduate to collect, analyze, interpret, utilize and present information that is contemporary in the biological sciences.*
2. *An awareness of the basic concepts of the physical and biological sciences and how these concepts are applicable in the profession.*
3. *An awareness of the importance of the arts, humanities, social and behavioral sciences, health sciences as well as the biological and physical sciences to the human community.*
4. *A basic understanding of literacy of all disciplines of biology, specifically to include the areas of botany, zoology, genetics, microbiology, cell biology, physiology, ecology and evolution.*
5. *A general competency in basic inorganic and organic chemistry as well as in introductory physics, mathematics and statistics.*

#### Assessment Procedures

*Exit examination  
Employer feedback  
Graduate feedback  
Performance of graduates on entrance examinations to post-baccalaureate programs*

#### Core (28 hours)

|                                                               |   |
|---------------------------------------------------------------|---|
| BIOL 171--Principles of Biology                               | 4 |
| BIOL 210--General Zoology                                     | 4 |
| BIOL 215--General Botany                                      | 4 |
| BIOL 304--Genetics                                            | 3 |
| BIOL 317--Principles of Microbiology                          | 4 |
| BIOL 380--Cell Biology                                        | 3 |
| BIOL 461--Ecology                                             | 3 |
| BIOL 425--Animal Physiology; or<br>BIOL 426--Plant Physiology | 3 |
| Total for Biology Core 28                                     |   |

#### Electives (9 hours)

|                                                   |   |
|---------------------------------------------------|---|
| *Advanced biology categories (see listing below)  | 9 |
| Total Hours for a Biology Major (non-teaching) 37 |   |

#### Advanced Biology Categories

Students must select, from the following three categories, nine hours (minimum of three courses) of advanced electives in biology. The student may select no more than two courses from any one group. Courses selected from advanced biology categories will not be counted as part of the biology core.

##### Group A

BIOL 336--Pathophysiology  
BIOL 419--Immunology

BIOL 425--Animal Physiology  
BIOL 426--Plant Physiology  
BIOL 446--Biotechnology  
BIOL 518--Pathogenic Microbiology  
BIOL 519--Virology  
BIOL 593--Laboratory Techniques in Biochemistry

##### Group B

BIOL 337--Comparative Anatomy  
BIOL 338--Developmental Biology  
BIOL 514--Plant Pathology  
BIOL 520--Histology  
BIOL 540--Parasitology  
BIOL 550--Plant Anatomy  
BIOL 555--Plant Morphology

##### Group C

BIOL 318--Local Flora  
BIOL 334--Entomology  
BIOL 437--Ornithology  
BIOL 450--Aquatic Entomology  
BIOL 505--Invertebrate Zoology  
BIOL 510--Limnology  
BIOL 531--Herpetology  
BIOL 535--Mammalogy  
BIOL 530--Ichthyology

Gulf Coast Research Laboratory courses may be used to fulfill the Group C advanced biology elective category. See statement concerning MSU's affiliation agreement with GCRL at the end of the biology program descriptions.

**Note:** BIOL 599--Selected Workshop Topics may be used as an elective for Group A, B, or C if it is approved as suitable by the departmental curriculum committee.

### Supplemental Requirements

#### I. Chemistry (12-16 hours)

*Students must select one of the following sequences:*

##### Sequence I (16 hours)

|                                                                |   |
|----------------------------------------------------------------|---|
| CHEM 111--Principles of Chemistry I                            | 4 |
| CHEM 112--Principles of Chemistry II                           | 4 |
| CHEM 326--Organic Chemistry I                                  | 4 |
| CHEM 301--Survey of Biochemistry; or<br>BIOL 590--Biochemistry | 4 |

##### Sequence II (12 hours)

|                                       |   |
|---------------------------------------|---|
| CHEM 101--Survey of General Chemistry | 4 |
| CHEM 201--Survey of Organic Chemistry | 4 |
| CHEM 301--Survey of Biochemistry      | 4 |

#### II. Physics (8 hours)

|                                      |   |
|--------------------------------------|---|
| PHYS 201--Elementary Physics I       | 3 |
| PHYS 201A--Elementary Physics I Lab  | 1 |
| PHYS 202--Elementary Physics II      | 3 |
| PHYS 202A--Elementary Physics II Lab | 1 |

#### III. Mathematics (6 hours)

|                                                  |   |
|--------------------------------------------------|---|
| MATH 174--Pre Calculus Mathematics or equivalent | 3 |
| MATH 353--Statistics or equivalent               | 3 |

Total Supplemental Hours 26-30

### Minor

#### Core (12 hours)

|                                 |   |
|---------------------------------|---|
| BIOL 171--Principles of Biology | 4 |
| BIOL 210--General Zoology       | 4 |
| BIOL 215--General Botany        | 4 |

Core Total 12

**Electives (Minimum of 12 hours)**

|                                                                       |    |
|-----------------------------------------------------------------------|----|
| One of the following courses (minimum of 3 hours) . . . . .           | 3  |
| BIOL 304--Genetics                                                    |    |
| BIOL 317--Microbiology                                                |    |
| BIOL 380--Cell Biology                                                |    |
| BIOL 425--Animal Physiology                                           |    |
| BIOL 426--Plant Physiology                                            |    |
| BIOL 461--Ecology                                                     |    |
| Three additional courses (minimum of 9 hours). These                  |    |
| courses must be selected from the list of courses (Core and Elective) |    |
| accepted for the biology major (non-teaching) . . . . .               | 9  |
| Total Hours for a Biology Minor                                       | 24 |

**Supplemental Requirements****Chemistry (8 hours)**

The student must take one of the following sequences:

**Sequence I**

|                                                 |   |
|-------------------------------------------------|---|
| CHEM 101--Survey of General Chemistry . . . . . | 4 |
| CHEM 201--Survey of Organic Chemistry . . . . . | 4 |

**Sequence II**

|                                                |   |
|------------------------------------------------|---|
| CHEM 111--Principles of Chemistry I . . . . .  | 4 |
| CHEM 112--Principles of Chemistry II . . . . . | 4 |
| Total Supplemental Hours                       | 8 |

**Biological Science Teaching****Area of Concentration (Biological Science)**

A student may become certified as a teacher of biological science by completing a Bachelor of Science degree with the requirements listed below. In addition, the student must also complete the Teacher Education Program (30 hrs.) and such tests and activities required for admission and retention in the Teacher Education Program described elsewhere in this catalog.

**Competencies Required in the Program**

*Students completing a concentration of teaching in Biological Science are expected to demonstrate competencies in basic and supplemental performance areas that include:*

- Demonstration of mastery of the subject matter of basic biological science and the basic pedagogy skills to grow and develop as a professional in secondary education. Biological science areas of specific course work cover organismal biology, genetics, microbiology, cell biology, physiology, ecology and evolution.*
- Performance in authentic teaching situations using a knowledge base of academic content coupled with the skills and processes required to be an effective teacher.*
- Successful integration of supplemental science areas of chemistry, geoscience, physics, mathematics and computer science with the subject matter of biological science to plan effective instructional strategies and to obtain the necessary materials and supplies required for*

*classroom and laboratory management involved in student-centered learning.*

- Synthesis of the content oriented biological, mathematical, and physical science courses with secondary education courses to develop the professional attitudes required by contemporary standards of knowledge on professional issues required to fulfill Kentucky's New Teaching Standards.*

**Assessment Procedures**

*Exit examination*

*Teacher Education Praxis Exam*

*Employer feedback*

**Core Requirements (37 hours)**

|                                                        |   |
|--------------------------------------------------------|---|
| BIOL 171--Principles of Biology . . . . .              | 4 |
| BIOL 210--General Zoology . . . . .                    | 4 |
| BIOL 215--General Botany . . . . .                     | 4 |
| BIOL 304--Genetics . . . . .                           | 3 |
| BIOL 317--Microbiology . . . . .                       | 4 |
| BIOL 380--Cell Biology . . . . .                       | 3 |
| BIOL 425--Animal Physiology; or                        |   |
| BIOL 426--Plant Physiology . . . . .                   | 3 |
| BIOL 461--Ecology . . . . .                            | 3 |
| BIOL 485--Biology Teaching Methods . . . . .           | 3 |
| BIOL 499D--Evolution . . . . .                         | 3 |
| BIOL 400 or 500-level courses from any listed as       |   |
| Advanced Biology Electives in the Department . . . . . | 3 |

**Supplemental Requirements**

*Chemistry (8 hrs., select one sequence)*

**Sequence I**

|                                                 |   |
|-------------------------------------------------|---|
| CHEM 101--Survey of General Chemistry . . . . . | 4 |
| CHEM 201--Survey of Organic Chemistry . . . . . | 4 |

**Sequence II**

|                                                |   |
|------------------------------------------------|---|
| CHEM 111--Principles of Chemistry I . . . . .  | 4 |
| CHEM 112--Principles of Chemistry II . . . . . | 4 |

**Geoscience (7 hrs.)**

|                                                          |   |
|----------------------------------------------------------|---|
| GEOS 108--Physical Geology . . . . .                     | 4 |
| GEOS 201--Historical Geology; or                         |   |
| GEOS 410--Geological History of Plants and Animals . . . | 3 |

**Physics (8 hrs.)**

|                                                |   |
|------------------------------------------------|---|
| PHYS 201--Elementary Physics I . . . . .       | 3 |
| PHYS 201A--Elementary Physics I Lab . . . . .  | 1 |
| PHYS 202--Elementary Physics II . . . . .      | 3 |
| PHYS 202A--Elementary Physics II Lab . . . . . | 1 |

**Mathematics (6-8 hrs.)****Select one of the following:**

|                                                      |   |
|------------------------------------------------------|---|
| MATH 152--College Algebra . . . . .                  | 3 |
| MATH 174--Pre-Calculus Mathematics . . . . .         | 3 |
| MATH 175--Analytic Geometry and Calculus I . . . . . | 4 |

**Select one of the following:**

|                                                       |   |
|-------------------------------------------------------|---|
| MATH 141--Plane Trigonometry . . . . .                | 3 |
| MATH 275--Analytic Geometry and Calculus II . . . . . | 4 |
| MATH 353--Statistics . . . . .                        | 3 |

**Computer Science (3 hrs.)**

|                                              |   |
|----------------------------------------------|---|
| CIS 101--Introduction to Computers . . . . . | 3 |
|----------------------------------------------|---|

## Environmental Science

**Faculty**--G. DeMoss, D. Eisenhour, G. Gearner, D. Magrane,  
L. Meade, T. Pass, B. Reeder, A. Risk, D. Saxon, D. Smith, C. Tuerk,  
J. Winstead (chair), C. Wymer

### Competencies Required in the Program

*Students successfully completing the Area of Concentration in Environmental Science should possess the following:*

1. *Written, oral, and interpersonal communication skills in the basic sciences that will allow the graduate to utilize information relevant to the area of environmental and ecological sciences.*
2. *An awareness of the basic scientific concepts in the physical and biological sciences and the application of such concepts to the field of environmental science.*
3. *An awareness of the importance of the arts, humanities, social and behavioral sciences as well as environmental science to the society comprising humans and nature.*
4. *A basic understanding of the literature of population, resources, biological principles, hydrological and limnological sciences, physical geology, environmental testing as well as the environmental aspects of ethics, governmental laws and policy.*
5. *A general competency in basic inorganic and organic chemistry as well as mathematics, statistics and introductory soil science.*

### Assessment Procedures

*Exit examination  
Employer feedback  
Graduate feedback*

## Bachelor of Science

An Area of Concentration in Environmental Science is offered. The student must work closely with his/her advisor to assure that proper course sequence is followed. Private industry, government agencies, municipalities, public utilities, research agencies, and ecological contracting companies are primary sources of employment.

### Area of Concentration

All students completing the Area must take the courses listed below in the core (49 semester hours). Students must also take the supplemental courses (21 semester hours) and select four courses from the listing of advanced electives (12-13 semester hours).

#### Core Courses

|                                                     |   |
|-----------------------------------------------------|---|
| BIOL 155--Population, Resources and the Environment | 3 |
| BIOL 171--Principles of Biology                     | 4 |
| BIOL 210--Zoology                                   | 4 |

|                                                                  |           |
|------------------------------------------------------------------|-----------|
| BIOL 215--Botany                                                 | 4         |
| BIOL 356--Environmental Biology                                  | 3         |
| BIOL 357--Environmental Testing Methods                          | 3         |
| BIOL 461--Ecology                                                | 3         |
| BIOL 510--Limnology                                              | 3         |
| ECON 401--Environmental Economics; or<br>GEO 349--Cartography I. | 3         |
| GEOS 108--Physical Geology                                       | 4         |
| GEOS 376--Environmental Geology                                  | 3         |
| GEOS 425--Hydrogeology; or<br>MIN 307--Hydrology                 | 3         |
| GOVT 324--Environmental Law and Policy                           | 3         |
| PHIL 333--Environmental Ethics                                   | 3         |
| <b>Core Total</b>                                                | <b>46</b> |

### Advanced Biology Electives

|                                                                                         |              |
|-----------------------------------------------------------------------------------------|--------------|
| <i>(Student must complete any four of the following courses)</i>                        | 12-13        |
| BIOL 317--Microbiology                                                                  | 4            |
| BIOL 318--Local Floral                                                                  | 3            |
| BIOL 334--Entomology                                                                    | 3            |
| BIOL 437--Ornithology                                                                   | 3            |
| BIOL 450--Aquatic Entomology                                                            | 3            |
| BIOL 530--Ichthyology                                                                   | 3            |
| BIOL 531--Herpetology                                                                   | 3            |
| BIOL 535--Mammalogy                                                                     | 3            |
| MSCI--Approved Gulf Coast Laboratory Elective<br>(Maximum of three hours transferrable) | 3            |
| <b>Total</b>                                                                            | <b>61-62</b> |

### Supplemental Courses

#### I. Chemistry

*(Students must select one of the following sequences)*

##### Sequence I

|                                                                     |   |
|---------------------------------------------------------------------|---|
| CHEM 111--Principles of Chemistry I                                 | 4 |
| CHEM 112--Principles of Chemistry II                                | 4 |
| CHEM 326--Organic Chemistry I; or<br>CHEM 360--Analytical Chemistry | 4 |

##### Sequence II

|                                       |   |
|---------------------------------------|---|
| CHEM 101--Survey of General Chemistry | 4 |
| CHEM 201--Survey of Organic Chemistry | 4 |
| CHEM 301--Survey of Biochemistry      | 4 |

#### II. Mathematics

|                                     |   |
|-------------------------------------|---|
| MATH 152--College Algebra or higher | 3 |
| MATH 353--Statistics                | 3 |

#### III. Agriculture

|                       |   |
|-----------------------|---|
| AGR 211--Soil Science | 3 |
|-----------------------|---|

**Supplemental Total** 21

**Total** 82-83

## Minor

### Required Courses

|                                                     |           |
|-----------------------------------------------------|-----------|
| BIOL 155--Population, Resources and the Environment | 3         |
| GEOS 376--Environmental Geology                     | 3         |
| GOVT 324--Environmental Law and Policy              | 3         |
| PHIL 333--Environmental Ethics                      | 3         |
| <b>Required Hours</b>                               | <b>12</b> |

### Choose any three (3) of the following:

|                                                  |   |
|--------------------------------------------------|---|
| GEOS 108--Physical Geology                       | 4 |
| BIOL 171--Principles of Biology                  | 4 |
| BIOL 210--General Zoology                        | 4 |
| BIOL 215--General Botany                         | 4 |
| GEO 360--Physiography of the U.S.                | 3 |
| GEOS 425--Hydrogeology; or<br>MIN 307--Hydrology | 3 |
| ECON 401--Environmental Economics                | 3 |
| AGR 211--Soil Science                            | 3 |

**Optional Hours** 9-12

**Total** 21-24

## Medical Technology

**Faculty**--G. DeMoss, D. Eisenhour, G. Gearner, D. Magrane, L. Meade, T. Pass, D. Saxon, C. Tuerk

### Competencies Required in the Program

*Students successfully completing the Area of Concentration in Medical Technology are expected to demonstrate competency in basic, supplementary, and clinical areas including:*

1. *Written, oral, and interpersonal communication skills in basic sciences that will allow the graduate to utilize information relevant to the field of medical technology.*
2. *An awareness of the basic concepts surrounding genetics, microbiology, cell biology, parasitology, immunology, pathogenic microbiology and microbiology and the application of those concepts as a professional in this field.*
3. *An awareness of the importance of the arts, humanities, social and behavioral sciences as well as the medical technology profession in the relationship of the health sciences to society.*
4. *General competency and understanding of inorganic, analytical, and organic chemistry in addition to knowledge of mathematics and statistics in relation to this profession.*
5. *Detailed clinical expertise in immunology, serology, hematology, mycology including instrumental analysis, calculations and administration of the clinical laboratory.*

### Assessment Procedures

*Exit examination*

*Performance on certification and professional examinations*

## Bachelor of Science

The field of medical technology is the medical application of the basic sciences. Principles from cellular and molecular biology, organic and biochemistry, microbiology, immunology, genetics and physiology are applied to laboratory testing.

In the medical laboratory, samples from the body are tested to determine the presence, absence, extent or cause of disease. The accurate performance of these complex tests requires advanced education in all areas of clinical laboratory science including chemistry, toxicology, immunohematology, hematology, urinalysis, and microbiology. Medical technology is an exciting career choice for people who like biology and chemistry, enjoy laboratory work, and desire to help others.

The continued growth of the health care industry is accompanied by an increasing demand for clinical laboratory scientists. Jobs are available in many employment settings. Graduates acquire positions in

research laboratories, medical industry and sales, forensic medicine, law enforcement, state health departments, veterinary laboratories, educational programs, physician offices and large clinical laboratories.

After several years experience, medical technologists may choose to move up the career ladder into educational, supervisory, and managerial roles. Others obtain advanced education in management, business, or the computer sciences. Graduates of this program have excelled in all of these areas.

MSU is affiliated with the following accredited hospital schools of medical technology:

1. St. Elizabeth Medical Center  
Covington, Kentucky
2. Owensboro-Daviess County Hospital  
Owensboro, Kentucky
3. Methodist Hospital of Kentucky  
Pikeville, Kentucky
4. University of Louisville  
Louisville, Kentucky

Students, with the assistance of their medical technology coordinator, usually begin to make applications to medical technology schools at the beginning of their junior year. Acceptance by an accredited school of medical technology for clinical study is competitive and is generally based on the applicant's academic record (minimum of 2.8 grade-point-average), personal interviews, and letters of recommendation. The final decision for admittance into the program is made by the appropriate school of medical technology. MSU makes every effort to secure each student a position at one of the hospital schools of medical technology.

Most affiliated hospitals charge a nominal fee during the clinical year in order to help defray expenses incurred in providing the students laboratory experience. The hospitals provide the medical technology coordinator with an estimate of expenses, in addition to tuition or fees, the student will likely incur during the clinical year of training. Grants and/or loans (Pell Grant and others) are available for eligible students through the University.

Affiliated hospital schools do not assume any obligation to accept a maximum or minimum number of students each year from MSU. Selection is based on open competition.

MSU confers upon successful candidates the Bachelor of Science degree with an area in medical technology. Upon completion of the four-year program, students are qualified to take a certifying examination in medical technology.

The medical technology curriculum is flexibly designed. A student deciding, for whatever reason, not to complete the "three plus one" program may still pursue and obtain a bachelor of science degree in biology through continued enrollment and acceptable performance at MSU.

## Area in Medical Technology

|                                                      |   |
|------------------------------------------------------|---|
| BIOL 171--Principles of Biology                      | 4 |
| BIOL 304--Genetics                                   | 3 |
| BIOL 317--Principles of Microbiology                 | 4 |
| BIOL 419--Immunology                                 | 3 |
| BIOL 231--Human Anatomy                              | 3 |
| BIOL 232--Human Physiology                           | 3 |
| BIOL 233--Human Physiology Lab                       | 1 |
| BIOL 380--Cell Biology                               | 3 |
| BIOL 518--Pathogenic Microbiology                    | 3 |
| BIOL 540--General Parasitology                       | 3 |
| CHEM 111--Principles of Chemistry I                  | 4 |
| CHEM 112--Principles of Chemistry II                 | 4 |
| CHEM 360--Analytical Chemistry                       | 4 |
| CHEM 326--Organic Chemistry I                        | 4 |
| CHEM 460--Instrumental Analysis; or                  |   |
| CHEM 301--Survey of Biochemistry                     | 4 |
| CIS 101--Computers for Learning                      | 3 |
| ENG 100--Writing I                                   | 3 |
| *ENG 200--Writing II                                 | 3 |
| MATH 123--Introduction to Statistics (or equivalent) | 3 |
| MATH 152--College Algebra                            | 3 |
| SPCH 108--Fundamentals of Speech Communication       | 3 |
| Area Studies --                                      |   |
| Humanities (Electives)                               | 9 |
| Mathematical Studies (Electives)                     | 9 |
| Social and Behavioral Sciences (includes             |   |
| PSY 154 and 6 hrs electives)                         | 9 |
| Practical Living (HLTH 151--Wellness required)       | 3 |
| Integrative Component (400-level integrative         |   |
| capstone course)                                     | 3 |

\*ENG 200 must be paired with an Area Studies Course

## SENIOR YEAR (Clinical)

All students attending an accredited school of medical technology during their clinical program of professional study must be enrolled in BIOL 413, 414, 415, and 416, Medical Technology Clinical Practicum, 4 to 14 hours, at Morehead State University during the fall, spring, and summer sessions.

The student will receive a minimum of 36 semester hours of credit upon successfully completing one year of clinical training at an accredited school of medical technology. Credit awarded will be applicable toward a Bachelor of Science degree with an area of concentration in medical technology.

All the following courses, or their equivalents, must be satisfactorily completed (at least a 2.0 or C average) during the hospital-based clinical year in order to receive credit for Biology 413, 414, 415, and 416 and to obtain a recommendation for one of the certification examinations.

**Immunohematology.** Theory and performance of tests related to donor selection, storage of units, blood grouping, Rh titers, compatibility testing, antibody detection and identification, and blood component therapy. 58 hours lecture and 106 hours of laboratory.

**Medical Microbiology.** Cultural techniques and characteristics, metabolic demands and microscopic study of bacteria from patient cultures and unknowns; identification by culture, chemical, and serological techniques; drug susceptibility testing. Lecture topics

include frequently and uncommonly encountered bacteria and viruses. 80 hours lecture and 180 hours laboratory.

**Medical Mycology.** Cultural characteristics and microscopic study of differentiating morphology are stressed in a workshop atmosphere; participants work on unknowns. Preliminary procedures and identification of tubercular organisms; 30 hours lecture and 33 hours laboratory.

**Serology and Immunology.** Theory and principles of the various serological tests; methods employed include precipitation, flocculation, hemolysis, and fluorescence. 40 hours lecture and 32 hours laboratory.

**Routine Analysis.** Chemical and microscopic laboratory methods used to study gastric, cerebrospinal, urine, pleural, and abdominal body fluids; related physiology and disease states. 40 hours lecture and 150 hours laboratory.

**Clinical Chemistry.** Quantitative chemical analyses performed for various constituents of blood: enzymes, electrolytes, carbohydrates, hormones, lipids, and nitrogen compounds. Precision manual techniques and a wide variety of instrumental methods are utilized; quality control is emphasized; a limited amount of toxicology is included. Lectures on principles of laboratory tests and physiological reactions in addition to correlation of laboratory findings with disease states. 114 hours lecture and 180 hours laboratory.

**Special Topics.** A three-part course in (1) orientation, including ethics, professional relationships, the institution and policies, the school program, venipuncture, patient approach, specimen identification, and basic calculation; (2) solutions, essentially a condensed elementary review of quantitative analysis, including gravimetric and volumetric procedures and associated calculations; and (3) management, a four-day workshop designed by the American Management Association to introduce basic management skills. 75 hours lecture, 33 hours laboratory, and 16 hours seminar.

**Medical Parasitology.** A workshop study of the geographical distribution, laboratory identification, modes of transmission, and effects of parasitic infestation on humans. 25 hours lecture and 45 hours laboratory.

**Hematology.** Physical, chemical, and microscopic procedures are utilized to evaluate the qualitative and quantitative composition of blood and bone marrow. The function of factors governing the clotting mechanism. Advanced hematology emphasizes correlation of laboratory test results and clinical findings. Collection of specimens and patient contacts are made from this area. 99 hours lecture and 180 hours laboratory.

**Seminar.** Various activities include: patient case studies to correlate laboratory results with disease states; literature search and preparation of review questions with team competition in answering; assigned classroom presentations. Sixteen hours discussion.

## Pre-Professional and Introductory Training Programs

The departmental organization of the various pre-professional programs is to provide maximum flexibility and contemporary course work and scientific background to allow the student to be competitive in the quest of being admitted to the professional school and program desired.

## Pre-Chiropractic

**Faculty**--G. DeMoss, D. Eisenhour, G. Gearner, D. Magrane, L. Meade, T. Pass, D. Saxon, C. Tuerk

The 1968 General Assembly of the Commonwealth of Kentucky passed legislation (H.B. No. 147) requiring a minimum of 60 semester hours of study in an accredited college or university as prerequisite to any person becoming eligible for licensure to practice any healing art (including chiropractic medicine). A student who desires to pursue this course of study should consult the catalog of the chiropractic school which he or she plans to attend.

## Requirements

Most schools or colleges of chiropractic medicine require the following pre-professional education for admission to the Doctor of Chiropractic degree programs:

1. 60 semester hours or 90 quarter hours leading to a baccalaureate degree in a college or university program with a minimum G.P.A. of 2.50 on a 4.0 scale,
2. six semester hours or nine quarter hours of biology with laboratory,
3. six semester hours or nine quarter hours of general chemistry with laboratory,
4. six semester hours or nine quarter hours of organic chemistry with laboratory,
5. six semester hours or nine quarter hours of physics with laboratory,
6. six semester hours or nine quarter hours of English and/or communication skills,
7. three semester hours or 4.5 quarter hours of psychology,
8. three semester hours or 4.5 quarter hours of social sciences and/or humanities, and
9. it is recommended that biology courses be elected from principles of biology, cell biology, general zoology, or principles of microbiology.

A more specific course curriculum for entrance to the Palmer College of Chiropractic, Davenport, Iowa, is outlined below. Morehead State University has an articulation agreement with Palmer College that provides students completing the minimum suggested courses and maintaining an acceptable G.P.A. priority consideration for admission to their chiropractic program. Other

schools of chiropractic may have specific requirements. To find out more about these requirements, consult the catalogs from individual schools or contact the Pre-Chiropractic Advisor.

## Palmer College of Chiropractic Admission Recommendations

|                                                             |   |
|-------------------------------------------------------------|---|
| BIOL 171--Principles of Biology                             | 4 |
| BIOL 210--General Zoology; or                               | 4 |
| BIOL 231--Human Anatomy                                     | 3 |
| BIOL 232--Human Physiology                                  | 3 |
| BIOL 233--Human Physiology Lab                              | 1 |
| (Students electing BIOL 231 must complete BIOL 232 and 233) |   |

## INORGANIC CHEMISTRY

|                                      |   |
|--------------------------------------|---|
| CHEM 111--Principles of Chemistry I  | 4 |
| CHEM 112--Principles of Chemistry II | 4 |

## ORGANIC AND BIOCHEMISTRY

|                                  |   |
|----------------------------------|---|
| CHEM 326--Organic Chemistry I    | 4 |
| CHEM 327--Organic Chemistry II   | 4 |
| BIOL 301--Survey of Biochemistry | 4 |

## PHYSICS

|                                     |   |
|-------------------------------------|---|
| PHYS 201--Elementary Physics I      | 3 |
| PHYS 201A--Elementary Physics I Lab | 1 |
| and                                 |   |

|                                      |   |
|--------------------------------------|---|
| PHYS 202--Elementary Physics II      | 3 |
| PHYS 202A--Elementary Physics II Lab | 1 |

or

|                                      |   |
|--------------------------------------|---|
| PHYS 231--Engineering Physics I      | 3 |
| PHYS 231A--Engineering Physics I Lab | 1 |

and

|                                       |   |
|---------------------------------------|---|
| PHYS 232--Engineering Physics II      | 3 |
| PHYS 232A--Engineering Physics II Lab | 1 |

## ENGLISH

Any college level course of English and/or communicative skills in the English language, including theatre, drama, and journalism.

## PSYCHOLOGY

Any college level course in the psychology department.

## SOCIAL SCIENCES OR HUMANITIES

Sociology, government, any class that does not include math, science, or chemistry.

## Pre-Dentistry

**Faculty**--G. DeMoss, D. Eisenhour, G. Gearner, D. Magrane, L. Meade, T. Pass, D. Saxon, C. Tuerk

The Council on Dental Education of the American Dental Association has established minimum requirements for admission to dental schools. Basic requirements are built around successful completion of 60 semester hours of college credits from an accredited liberal arts and sciences college or university. Minimum course requirements include one year of study in the areas of English, biology, general chemistry, organic/biochemistry, and at least one semester of physics. It is important that all science classes include both lecture and laboratory instruction. Dental schools do not encourage students to apply with such minimal preparation, because the selection of applicants is also based on the demonstration of superior qualification in personal maturity and academic competence. Three, and preferably four, years of undergraduate preparation are necessary to provide students with those qualifications

that will permit entry into dental schools. Pre-dental students should have a good background in sciences and mathematics beyond the minimum requirements and they should also cultivate interests in literature, music, art, speech, languages, social sciences, and psychology. For purposes of scheduling, course selection, and complete preparation for professional school, the pre-dental student must work closely with the faculty advisor.

A student who follows a program that includes the requirements for graduation and enters dental school at the end of the junior year may, after successfully completing the first year at dental school, transfer credits to Morehead State University and receive the bachelor's degree, provided he or she has completed all of the general education requirements.

Pre-dental students generally follow the curriculum designed for the biology major and a minor of their choice. However, certain complementary and specific general education courses are recommended. An academic handbook and suggested curriculum are available from the pre-dental advisor.

## Pre-Medicine

**Faculty**--G. DeMoss, D. Eisenhour, G. Gearner, D. Magrane, L. Meade, T. Pass, D. Saxon, C. Tuerk

Admission requirements vary among medical schools, but all recognize the importance of a strong foundation in the natural sciences (biology, general and organic chemistry, mathematics, and physics), highly developed communication and thinking skills, and a good background in the social sciences and humanities. Competencies in these areas should be developed before taking the required Medical College Admission Test (MCAT). Many pre-medical students major in biology and minor in chemistry. Other options are acceptable and may be completed with the aid of the departmental pre-medical advisors. Certain complementary and specific general education courses are recommended for the pre-medical program of study. Students granted early admission to their medical school of choice may, upon completion of their medical degree, transfer selected medical school courses back to Morehead State University for completion of their bachelor's degree in the sciences.

Since specific requirements do vary among medical schools, it is essential that the student investigate the requirements of the medical school(s) of his/her choice during the first year of the preparatory program.

For purposes of scheduling, course selection, and complete preparation for medical school, the pre-medical student must work closely with the assigned faculty advisor.

## Pre-Pharmacy

**Faculty**--G. DeMoss, D. Eisenhour, G. Gearner, D. Magrane, L. Meade, T. Pass, D. Saxon, C. Tuerk

The suggested program of pre-pharmacy study at MSU will meet the general requirements for most pharmacy schools. It can be modified to satisfy the needs of the individual student.

Admission to a school of pharmacy may be obtained after completion of a two-year pre-pharmacy program, although it often takes three years. Depending on the degree program followed, three or four additional years are required to complete pharmacy school.

Pre-pharmacy students generally follow the initial curriculum designed for the biology major and chemistry minor. However, certain complementary and specific general education courses are recommended. An academic handbook and suggested curriculum are available from the pre-pharmacy advisor.

## Pre-Physical Therapy

**Faculty**--G. DeMoss, D. Eisenhour, G. Gearner, D. Magrane, L. Meade, T. Pass, D. Saxon, C. Tuerk

Most schools of physical therapy require 60 to 70 hours of selected course work in a pre-physical therapy program. Students who plan to enter the program in physical therapy should consult the catalog of the school they plan to attend to be certain they fulfill specific requirements.

The suggested pre-physical curriculum at Morehead State University will meet the requirements at most physical therapy schools. To assure proper course selection and to meet all admission requirements, students must work closely with their faculty advisor.

Pre-physical therapy students generally follow the curriculum designed for the biology major. However, certain complementary and specific general education courses are recommended. An academic handbook and suggested curriculum are available from the pre-physical therapy advisor.

## Pre-Physician Assistant

The pre-professional program consists of courses that fulfill the basic University general studies program and key courses that are prerequisites for a Physician's Assistant Professional program. These courses are available from Morehead State University and generally follow the initial curriculum designed for the biology major. To assure proper course selection and to meet all admission requirements to a professional program, students must work closely with a faculty advisor.

A satellite professional program in Physician Assistant Studies, leading to the bachelor of science degree, is conducted on campus at Morehead State University with instruction and facilities provided by both the University of Kentucky and Morehead State University. This program is coordinated with the College of Allied Health Professions in the University of Kentucky. The application and acceptance to the professional program is regulated by the University of Kentucky.

### Gulf Coast Research Laboratory

Morehead State University maintains a formal affiliation arrangement with the Gulf Coast Research Laboratory (GCRL) in Ocean Springs, Mississippi. Through this arrangement, our students may take field courses in marine science at GCRL during the summer. Credits for these courses are awarded through the University of Southern Mississippi and will be accepted as transfer credit at Morehead State University. The following is a list of courses taught at GCRL, their level (undergraduate or graduate), and the semester hours credit. Not all courses are offered each year.

|                                                    |        |
|----------------------------------------------------|--------|
| Marine Science I: Oceanography (U)                 | 5      |
| Marine Science II: Marine Biology (U)              | 5      |
| Coastal Vegetation (U/G)                           | 3      |
| Marine Phycology (U/G)                             | 4      |
| Salt Marsh Plant Ecology (U/G)                     | 4      |
| Coastal Marine Geology (U/G)                       | 3      |
| Marine Invertebrate Zoology (U/G)                  | 6      |
| Marine Ichthyology (U/G)                           | 6      |
| Marine Microbiology (U/G)                          | 5      |
| Comparative Histology of Marine Organisms (U/G)    | 6      |
| Marine Fisheries Management (U/G)                  | 4      |
| Fauna and Faunistic Ecology of Tidal Marshes (U/G) | 4      |
| Early Life History of Marine Fishes (G)            | 4      |
| Marine Ecology (U/G)                               | 5      |
| Parasites of Marine Animals (U/G)                  | 6      |
| Marine Aquaculture (U/G)                           | 6      |
| Coastal Ecology for Teachers (U/G)                 | 4      |
| Special Problems in Marine Science (U/G)           | 1 to 6 |
| Special Topics in Marine Science (U/G)             | 1 to 6 |

Students may obtain more information about the Gulf Coast Research Laboratory and admission to the summer program by writing:

Office of Student Services  
Gulf Coast Research Laboratory  
Ocean Springs, MS 39564-7000  
Telephone (601)872-4201

## Department of Human Sciences

Marilyn Sampley, Chair  
(606) 783-2966  
100 Lloyd Cassity Building

### Interdisciplinary Early Childhood Development

Faculty--C. Cogswell

#### Competencies Required in the Program

Competency is required in the following basic areas in the Interdisciplinary Early Childhood Development Program:

1. Function as competent childhood administrators, teachers, and caregivers for birth to primary programs through an interdisciplinary curriculum which emphasizes goals, research, and best practice relating to children and diversity.
2. Apply knowledge of the physical, psychosocial and cognitive development of children.
3. Address special education needs of young children through a diagnostic prescriptive teaching/learning approach.
4. Apply instructional methodology and curriculum content to laboratory experiences.
5. Utilize the management processes in caring for and teaching children with and without disabilities from birth to primary programs.
6. Examine legislation and public policy regarding children and families.
7. Communicate as a child and family advocate.

#### Assessment Procedures

Exit examinations  
Survey of employers

### Bachelor of Science

#### Major

The 132 hour baccalaureate degree program includes 48 hours of general education, 46 hours of program requirements, 33 hours of professional education and 5 hours of approved electives.

|                                                               |           |
|---------------------------------------------------------------|-----------|
| <b>Program Requirements</b>                                   | <b>48</b> |
| HS 200--Family Perspectives                                   | 3         |
| HS 201--Principles of Nutrition                               | 3         |
| HS 253--Child Growth and Development                          | 4         |
| HS 254--Preschool Administration                              | 4         |
| HS 257--Care and Development: Prenatal,<br>Infant and Toddler | 3         |
| HS 327--Maternal, Infant, and Child Nutrition                 | 3         |

|                                                                                                        |           |
|--------------------------------------------------------------------------------------------------------|-----------|
| HS 332--Field Experience                                                                               | 4         |
| HS 354--Preschool Programs and Environment                                                             | 3         |
| HS 358--Public Policy for Children and Families                                                        | 3         |
| HS 457--Parenting                                                                                      | 3         |
| HS 467--Trends and Issues in Early Childhood Development                                               | 3         |
| HS 499C--Senior Seminar                                                                                | 3         |
| NAHS 473--Health Care Management of Children                                                           | 3         |
| PSY 356--Cognitive Development of the Infant and Child                                                 | 3         |
| PHED 311--Movement Exploration                                                                         | 3         |
| <b>Professional Education</b>                                                                          | <b>33</b> |
| EDF 207--Foundation of Education                                                                       | 3         |
| IECE 301--At Risk Infants and Toddlers                                                                 | 3         |
| IECE 345--Preschool Programs for Special Needs Children                                                | 3         |
| IECE 410--Role of Teacher: Designing Language and Cognitive Activities for Diverse Groups              | 3         |
| IECE 411--Role of Teacher: Creating a Learning Environment for Diverse Groups                          | 3         |
| IECE 412--Role of Teacher: Designing the Implementation of Creative Play Activities for Young Children | 3         |
| IECE 425--Practical Student Teaching                                                                   | 12        |
| IECE 457--Professional Assessment                                                                      | 3         |
| <b>Approved Electives</b>                                                                              | <b>5</b>  |
| HS 353--Program Planning for Infants and Toddlers                                                      | 2         |
| HS 363--Family Economics                                                                               | 3         |
| EDF 211--Human Growth and Development                                                                  | 3         |
| EDSP 320--Introduction to Corrective Speech                                                            | 3         |
| EDUC 222--Computing Tools for Education                                                                | 3         |
| SWK 315--Child Welfare Services                                                                        | 3         |

## General Education 48

(See general education requirements for the University.)

## Minor

The minor in child development is offered to complement majors in disciplines such as health, electronic media, journalism, recreation, psychology, and sociology. The minor prepares students for positions in day care centers and nursery schools.

## Course Requirements

|                                                              |    |
|--------------------------------------------------------------|----|
| HS 200--Family Perspectives                                  | 3  |
| HS 201--Principles of Nutrition                              | 3  |
| HS 239--Cooperative Education; or                            |    |
| HS 332--Field Experience                                     | 4  |
| HS 253--Child Growth and Development                         | 4  |
| HS 254--Preschool Administration                             | 4  |
| HS 257--Care and Development: Prenatal, Infants and Toddlers | 3  |
| HS 353--Program Planning for Infants and Toddlers            | 3  |
| HS 354--Preschool Programs and Environments                  | 3  |
|                                                              | 26 |

## Vocational Family and Consumer Sciences

Faculty--J. Ellington

### Competencies Required in the Program

Competency is required in the following basic areas in the Vocational Family and Consumer Sciences:

1. Develop a broad based body of knowledge of all areas of home economics subject matter.

2. Acquire interpersonal skills in working with various age groups of people.
3. Skill development in curriculum planning and teaching strategies for home economics education.
4. Develop a working knowledge of all educational programs in home economics, middle grades through adult and become certified to teach home economics education grades 5-12 and adult.

### Assessment Procedures

Exit examination

Alumni surveys

Survey of employers

## Bachelor of Science

### Area of Concentration in Vocational Family and Consumer Sciences

The Vocational Family and Consumer Sciences program prepares students to teach in middle grades, senior high school, and adult home economics programs. These majors are required to complete 1,000 hours of work experience in home economics related positions to qualify for a vocational teaching certificate. A total of 2,000 hours of work experience in a specific area is required for an occupational home economics teaching certificate.

### Core Requirements 13

|                                 |   |
|---------------------------------|---|
| PDI 100--Personal Development   | 1 |
| HS 200--Family Relations        | 3 |
| HS 201--Principles of Nutrition | 3 |
| HS 363--Family Economics        | 3 |
| HS 499C--Senior Seminar         | 3 |

### Program Requirements

|                                                               |    |
|---------------------------------------------------------------|----|
| HS 130--Elementary Food Preparation                           | 3  |
| HS 141--Introduction to Textiles and Clothing                 | 3  |
| HS 231--Meal Management                                       | 3  |
| HS 241--Clothing Production Studio                            | 3  |
| HS 252--Problems in Interior Design                           | 3  |
| HS 253--Child Growth and Development                          | 4  |
| HS 254--Preschool Administration                              | 4  |
| HS 351--Housing                                               | 3  |
| HS 454--Life Management                                       | 3  |
| HS 457--Parenting                                             | 3  |
| HS Electives (Select from courses listed)                     | 16 |
| HS 250--Visual Merchandising                                  |    |
| HS 257--Care and Development: Prenatal, Infants, and Toddlers |    |
| HS 327--Maternal, Infant and Child Nutrition                  |    |
| HS 332--Field Experience                                      |    |
| HS 349--Clothing and Culture                                  |    |

### Supplemental Requirements 38

|                                                |    |
|------------------------------------------------|----|
| HS 388--Methods of Curriculum Development      | 3  |
| HS 392--Methods of Instructional Technology    | 3  |
| HS 470--Methods of Instruction                 | 3  |
| HS 478--Student Teaching Practicum             | 12 |
| EDEM 330--Foundations of Reading               | 3  |
| EDMG 332--Reading Strategies for Middle Grades | 3  |
| EDF 211--Human Growth and Development          | 3  |
| EDF 311--Learning Theories in the Classroom    | 3  |

|                                                          |           |
|----------------------------------------------------------|-----------|
| EDSP 332--Teaching the Exceptional Student . . . . .     | 2         |
| VOC 207--Foundations of Vocational Education . . . . .   | 3         |
| <b>General Education Requirements . . . . .</b>          | <b>45</b> |
| (See general education requirements for the University.) |           |

## Bachelor of Science in Human Sciences

**Faculty**--C. Cogswell, J. Ellington, N. Graham, M. Kunz,  
B. Malinauskas, M. Sampley (Chair), P. Stevens

A Bachelor of Science Degree in Human Sciences is available with concentrations in Child Development; Dietetics; Hotel, Restaurant, and Institutional Management; and Retail Merchandising and Design. A core of 36 semester hours is required for the degree.

### *Competencies Required in the Program*

Competency is required in the following basic areas in the bachelor of science degree program in Human Sciences:

#### *Child Development*

Students will demonstrate ability to:

1. Evaluate the physical, intellectual, emotional, moral, personality and social development of the individual.
2. Assess and administer models of early childhood development programs for young children.
3. Evaluate prenatal care, child care and guidance techniques which meet the needs of children and contribute to optimal development.
4. Evaluate the process of parenting, problems, issues, early intervention and family center relationships.
5. Evaluate skills necessary for developmentally appropriate instruction and care of preschool children.

#### *Dietetics*

Students will know:

1. Scientific principles of human nutrition in health and disease.
2. Nutrient composition of food and appropriate sources of data.
3. Principles of food science and techniques of food preparation.
4. Principles of menu planning for optimal nutrition of individuals and groups in health and disease.
5. The influence of socioeconomic, cultural, and psychological factors on food and nutrition behavior.
6. The influence of nutrition care delivery in community programs.
7. Principles of effective communication and documentation.
8. The use of computers for data processing and information management in dietetics.

9. Basic concepts of research methodology and statistical analysis.
10. Principles of education and effective methods of teaching.
11. Techniques of interviewing and counseling.
12. Principles of organization and management.
13. Fundamentals of human relations and group dynamics.
14. Fundamentals and techniques of financial management.
15. Principles and techniques of human resource management.
16. Fundamentals of quality assurance.
17. Principles of nutrition assessment, planning intervention, and evaluation.
18. The principles of procurement, food production distribution.
19. Laws, regulations, and standards affecting dietetic practice.
20. Fundamentals of merchandising and promoting food and nutrition services.
21. Nutrient needs for various stages of the life cycle.

#### *Hotel, Restaurant and Institutional Management*

Students will know:

1. Principles of food science and techniques of food preparation.
2. Use of computers for data processing and information in hospitality industry.
3. Principles of organization and management.
4. Fundamentals and techniques of financial management.
5. Principles and techniques of human resource management.
6. Principles of procurement, food and beverage production, distribution and service.
7. Fundamentals of merchandising and marketing for hospitality.
8. Principles of layout and design, maintenance and housekeeping of hospitality facilities.
9. Laws and standards affecting the hospitality industry.
10. A variety of fundamentals and principles associated with the hospitality industry.

#### *Retail Merchandising and Design*

##### *Apparel Construction*

Students will:

1. Demonstrate a basic knowledge of apparel construction techniques appropriate to specific end-use applications and specialized consumer groups.
2. Demonstrate the stages of apparel production and construction from fiber to finished garment.
3. Acquire knowledge of basic apparel design concepts and techniques.

**Apparel Selection**

Students will:

1. Apply basic design principles to apparel selection for specific end uses and specialized consumer needs.
2. Be able to trace the historic development of costume and apply such to current fashion trends.
3. Apply social, psychological, cultural and economics aspects of dress to apparel selection.

**Apparel Industry**

Students will:

1. Be familiar with the structure and production processes of the textile and apparel industry.
2. Demonstrate abilities in merchandise display and promotion activities.
3. Acquire knowledge of the impact of global affairs on the apparel industry.

**Textiles**

Students will:

1. Demonstrate knowledge of standardized textile testing procedures.
2. Demonstrate the ability to select appropriate textiles procedures by specified end-use for home furnishings and apparel products.
3. Acquire knowledge regarding current textile legislation and regulations.
4. Demonstrate the ability to select appropriate renovation and care processes from textile and apparel products commensurate with fabrication and construction of such items.

**Competency is required in the following supplemental areas for all options:**

1. Personal development
2. Human Relations
3. Consumer Nutrition
4. Family Resources
5. Management
6. Family in global perspective
7. Professional development
8. Field/clinical/cooperative experience
9. Social and behavioral sciences
10. Composition and communication skills
11. Computer literacy
12. Business organizations and their regulatory environment
13. Principles of physical science and biological science
14. Mathematical skills
15. First aid care
16. Art principles

**Assessment Procedures**

Exit examination  
Alumni surveys  
Survey of employers

**Core Requirements**

The following core requirements must be completed for the Bachelor of Science Degree in Human Sciences for options in Child Development; Dietetics; Hotel, Restaurant and Institutional Management; and Retail Management and Design.

**Core Requirements**

|                                          |    |
|------------------------------------------|----|
| HS 200--Family Relations                 | 3  |
| HS 201--Principles of Nutrition          | 3  |
| HS 363--Family Economics                 | 3  |
| HS 490--Special Topics in Human Sciences | 3  |
| HS 499C--Senior Seminar                  | 3  |
| ECON 201--Principles of Macroeconomics   | 3  |
| ECON 202--Principles of Microeconomics   | 3  |
| MNGT 301--Principles of Management       | 3  |
| MNGT 311--Personnel Management           | 3  |
| ACCT 281--Principles of Accounting I     | 3  |
| ACCT 282--Principles of Accounting II    | 3  |
| MATH 354--Business Statistics            | 3  |
|                                          | 36 |

**Option 1: Child Development**

|                                                                   |    |
|-------------------------------------------------------------------|----|
| <b>Core Requirements</b>                                          | 36 |
| <b>Option Requirements</b>                                        | 36 |
| HS 253--Child Growth and Development                              | 4  |
| HS 254--Preschool Administration                                  | 4  |
| HS 257--Care and Development: Prenatal, Infant and Toddler        | 3  |
| HS 327--Maternal, Infant, and Child Nutrition                     | 3  |
| HS 332--Field Experience; or<br>HS 239/439--Cooperative Education | 4  |
| HS 353--Program Planning for Infant and Toddlers                  | 2  |
| HS 354--Preschool Programs and Environments                       | 3  |
| HS 358--Public Policy Advocacy for Children and Families          | 3  |
| HS 457--Parenting                                                 | 3  |
| HS 467--Trends and Issues in Early Childhood Development          | 3  |
| HS 477--Early Childhood Development Practicum                     | 4  |

**Specific general education courses required by the program:**

|                                                      |    |
|------------------------------------------------------|----|
| BIOL 110--Biological Science for Elementary Teachers | 3  |
| CIS 101--Computers for Learning                      | 3  |
| ECON 201--Principles of Macroeconomics               | 3  |
| MATH 131--Mathematics Reasoning and Problem Solving  | 3  |
| PSY 154--Introduction to Psychology                  | 3  |
| SCI 109--Physical Science for Elementary Teachers    | 3  |
| Additional general education requirements            | 30 |
|                                                      | 48 |

A minimum 21 semester hour minor selected by the student is required.

139

**Option 2: Dietetics**

|                                                   |    |
|---------------------------------------------------|----|
| <b>Core Requirements</b>                          | 36 |
| <b>Option Requirements</b>                        | 33 |
| HS 234--Computer Assisted Food Service Management | 3  |
| HS 328--Nutrition in the Life Cycle               | 3  |
| HS 329--Quantity Food Production                  | 4  |
| HS 330--Quantity Food Purchasing                  | 3  |
| HS 331--Food Production Management                | 4  |
| HS 333--Diet Therapy                              | 3  |
| HS 336--Institutional Organization and Management | 3  |
| HS 410--Therapeutic Nutrition                     | 3  |

|                             |   |
|-----------------------------|---|
| HS 437--Advanced Nutrition  | 3 |
| HS 438--Experimental Foods  | 3 |
| HS 443--Community Dietetics | 3 |

### Supplemental Requirements

|                                                          |    |
|----------------------------------------------------------|----|
| BIOL 217--Elementary Medical Microbiology and Laboratory | 4  |
| BIOL 232--Human Physiology                               | 3  |
| BIOL 232L--Human Physiology Laboratory                   | 1  |
| CHEM 101--Survey of General Chemistry and Laboratory     | 4  |
| CHEM 201--Survey of Organic Chemistry and Laboratory     | 4  |
| CHEM 301--Survey of Biochemistry and Laboratory          | 4  |
| MATH 152--College Algebra                                | 3  |
|                                                          | 23 |

## The Preprofessional Practice Program in Dietetics (Ap4)

The Ap4 provides for the achievement of performance requirement for entry level dietitian through a minimum of 900 hours of supervised practice. The Ap4 is approved by the American Dietetic Association. Graduates are eligible to write the National Registry Examination for licensure as a Registered Dietitian. A certificate is awarded upon completion of the Ap4.

### Admission Requirements

The Ap4 follows completion of the Didactic Program in Dietetics and an overall grade point average of 2.5. Computer matching through the American Dietetic Association is required.

### Required Course Sequence

#### Fall Semester

|                                                                |   |
|----------------------------------------------------------------|---|
| HS 510--Professional Practice in Clinical Dietetics            | 6 |
| HS 537--Preprofessional Practice in Administrative Dietetics I | 6 |

#### Spring Semester

|                                                                 |   |
|-----------------------------------------------------------------|---|
| HS 532--Preprofessional Practice in Community Dietetics         | 6 |
| HS 539--Preprofessional Practice in Administrative Dietetics II | 6 |

## Option 3: Hotel, Restaurant, and Institutional Management

|                          |    |
|--------------------------|----|
| <b>Core Requirements</b> | 36 |
|--------------------------|----|

|                            |    |
|----------------------------|----|
| <b>Option Requirements</b> | 35 |
|----------------------------|----|

|                                                                               |   |
|-------------------------------------------------------------------------------|---|
| HS 132--Introduction to Hotel, Restaurant, and Institutional Management       | 3 |
| HS 136--Dining Room Procedures and Beverage Control                           | 3 |
| HS 234--Computer Assisted Food Service Management                             | 3 |
| HS 329--Quality Food Preparation                                              | 4 |
| HS 330--Quality Food Purchasing                                               | 3 |
| HS 331--Food Production Management                                            | 4 |
| HS 335--Equipment and Facilities Planning                                     | 3 |
| HS 336--Institutional Organization and Management                             | 3 |
| HS 338--Maintenance, Engineering, and Housekeeping for Hospitality Facilities | 3 |
| HS 435--Cost Control in Hotel, Restaurant, and Institutional Management       | 3 |
| HS 436--Hotel, Restaurant, and Institutional Marketing Management             | 3 |

\*A 21 hour minor in business is required.

## Option 4: Retail Merchandising and Design

|                          |    |
|--------------------------|----|
| <b>Core Requirements</b> | 36 |
|--------------------------|----|

|                            |    |
|----------------------------|----|
| <b>Option Requirements</b> | 33 |
|----------------------------|----|

|                                                |    |
|------------------------------------------------|----|
| HS 141--Introduction to Textiles and Clothing  | 3  |
| HS 250--Visual Merchandising                   | 3  |
| HS 280--Apparel Analysis                       | 3  |
| HS 290--Introduction to the Apparel Industry   | 3  |
| HS 323--Textiles                               | 3  |
| HS 349--Clothing and Culture                   | 3  |
| HS 450--Merchandising Applications             | 3  |
| Select for the following                       | 12 |
| HS 241--Clothing Production                    |    |
| HS 340--Intermediate Textiles                  |    |
| HS 344--Historic Costume                       |    |
| HS 439--Cooperative Education                  |    |
| HS 460--Merchandising Display and Promotion    |    |
| HS 542--Socio-psychological Aspect of Clothing |    |

\*A minor in business is required.

## Fashion Merchandising Minor

The minor in fashion merchandising is offered to complement majors in varied disciplines such as art, business, and journalism.

### Course Requirements

|                                              |    |
|----------------------------------------------|----|
| HS 250--Visual Merchandising                 | 3  |
| HS 280--Apparel Analysis                     | 3  |
| HS 290--Introduction to the Apparel Industry | 3  |
| HS 323--Textiles                             | 3  |
| HS 344--Historic Costume                     | 3  |
| HS 349--Clothing and Culture                 | 3  |
| HS 450--Merchandising Applications           | 3  |
| HS 460--Merchandise Display and Promotion    | 3  |
|                                              | 24 |

## Associate of Applied Science (Two-Year Program)

**Faculty**--C. Cogswell, J. Ellington, N. Graham, M. Kunz, B. Malinauskas, M. Sampley (Chair), P. Stevens

An Associate of Applied Science Degree in Human Sciences is available with options in Food Service Management, Interior Design Assistant, Fashion Merchandising, and Child Development. The core requirement consists of 27 semester hours.

The option in child development prepares students for positions in licensed day care centers, nursery schools and centers for socially disadvantaged, culturally deprived or handicapped children; for Level III positions for four-year-old at-risk children.

The fashion merchandising option prepares for employment by retail stores and manufacturers of clothing and textiles products; food service technology prepares for entry level management positions in food service; and interior design assistant prepares for employment as assistants with experienced designers or in retail sales.

**Competencies Required in the Program**

Competency is required in the following basic areas in the associate degree program in Human Sciences:

**Child Development**

Students will demonstrate ability to evaluate:

1. The physical, intellectual, emotional, moral, personality and social development of the individual.
2. The care and guidance techniques which meet the basic needs of the child and contribute to his optimal development.

**Preschool Administration**

Students will demonstrate ability to:

1. Assess and administer models of early childhood education programs for young children.
2. Analyze career and job opportunities.

**Employment Performance**

Students will demonstrate:

1. Performance of specific skills, abilities and behaviors regarding occupational adjustment.
2. Suitability for child development related employment and potential for future employability.

**Fashion Merchandising****Apparel Construction**

Students will demonstrate:

1. A basic knowledge of apparel construction techniques appropriate to specific end-use applications and specialized consumer groups.
2. The stages of apparel production and construction from fiber to finished garment.

**Apparel Selection**

Students will:

1. Apply basic design principles to apparel selection for specific end uses and specialized consumer needs.
2. Demonstrate abilities in merchandise display and promotion activities.

**Employment Performance**

Students will demonstrate:

1. Performance of specific skills, abilities and behaviors regarding occupational adjustment.
2. Suitability for fashion merchandising related employment and potential for future employability.

**Food Service Management**

Students will:

1. Learn and effectively practice basic and advanced technical skills in food preparation and service.
2. Acquire basic supervisory skills to better utilize human and physical resources in food service operations.
3. Gain experience in the proper use and maintenance of professional food service equipment.

**Historic Preservation**

Students will:

1. Demonstrate an appreciation and knowledge of techniques for traditional craftsmanship.

2. Demonstrate an ability to apply preservation theory to actual situations.
3. Demonstrate an ability to appreciate and evaluate historic environments (natural and human made).
4. Understand basic creative design principles and application to historic preservation problem-solving.
5. Understand, evaluate, and interpret research findings and human factor data in arriving at design solutions.
6. Understand historical backgrounds of furniture and/or architectural styles.
7. Demonstrate competence in drafting (C.A.D. Systems) plans, evaluations, and perspectives.
8. Demonstrate competence in consultation of both commercial and residential projects.
9. Demonstrate abilities in specifying and estimating cost of textiles and/or construction materials.
10. Demonstrate ability to adhere to historic preservation federal and state codes.
11. Demonstrate ability to market skills by using written, graphic, and oral communication.
12. Understand business and professional practices.

Competency is required in the following supplemental areas for all options:

1. Mathematics
2. Composition and communication skills
3. Computer literacy
4. Behavioral and social sciences
5. Interpersonal skills
6. Business organizations and their regulatory environment
7. Professional development
8. Field, clinical or co-op experience

**Assessment Procedures**

Exit examination

Alumni surveys

Survey of employers

**Core Requirements**

The following courses must be completed in all associate degree options:

|                                                           |    |
|-----------------------------------------------------------|----|
| HS 200--Family Relations                                  | 3  |
| HS 363--Family Economics                                  | 3  |
| ECON 201--Principles of Macroeconomics                    | 3  |
| MNGT 261--The Legal Environment of Business Organizations | 3  |
| BIS 136--Business Calculations                            | 3  |
| BIS 321--Business Communications                          | 3  |
| MKT 304--Marketing                                        | 3  |
| MNGT 310--Small Business Organizations                    | 3  |
| ACCT 281--Principles of Accounting I                      | 3  |
|                                                           | 27 |

**General Education Requirements** 21

|                                                      |   |
|------------------------------------------------------|---|
| CIS 101--Computers for Learning; or                  |   |
| AGR 261--Information Acquisition and Analysis        | 3 |
| ENG 100--Writing I                                   | 3 |
| *ENG 200--Writing II                                 | 3 |
| MATH 131--Mathematical Reasoning and Problem Solving | 3 |

|                                                                       |   |
|-----------------------------------------------------------------------|---|
| SPCH 108--Fundamentals of Speech Communication                        | 3 |
| Humanities or Social and Behavioral Sciences                          |   |
| Area Studies                                                          | 6 |
| <b>*Must be paired with an Areas Studies general education course</b> |   |

### Option 1. Child Development

|                                                         |    |
|---------------------------------------------------------|----|
| <b>Core Requirements</b>                                | 27 |
| <b>Option Requirements</b>                              | 27 |
| HS 201--Principles of Nutrition                         | 3  |
| HS 239--Cooperative Education; or                       |    |
| HS 332--Field Experience                                | 4  |
| HS 253--Child Growth and Development                    | 4  |
| HS 254--Preschool Administration                        | 4  |
| HS 257--Care and Development: Prenatal, Infants         |    |
| and Toddlers                                            | 3  |
| HS 353--Program Planning for Infants and Toddlers       | 3  |
| HS 354--Preschool Programs and Environments             | 3  |
| IECE 345--Preschool Programs for Special Needs Children | 3  |

### Option 2: Fashion Merchandising

|                                              |    |
|----------------------------------------------|----|
| <b>Core Requirements</b>                     | 27 |
| <b>Option Requirements</b>                   | 27 |
| HS 241--Clothing Production Studio           | 3  |
| HS 250--Visual Merchandising                 | 3  |
| HS 280--Apparel Analysis                     | 3  |
| HS 290--Introduction to the Apparel Industry | 3  |
| HS 323--Textiles                             | 3  |
| HS 344--Historic Costume                     | 3  |
| HS 349--Clothing and Culture                 | 3  |
| HS 239--Cooperative Education                | 3  |
| MKT 350--Salesmanship                        | 3  |

### Option 3: Food Service Management

|                                                     |    |
|-----------------------------------------------------|----|
| <b>Core Requirements</b>                            | 27 |
| <b>Option Requirements</b>                          | 26 |
| HS 130--Elementary Foods Preparation                | 3  |
| HS 132--Food Service Operations                     | 3  |
| HS 136--Dining Room Procedures and Beverage Control | 3  |
| HS 231--Meal Management                             | 3  |
| HS 234--Computer Assisted Food Service Management   | 3  |
| HS 239--Cooperative Education                       | 3  |
| HS 329--Quality Food Preparation                    | 4  |
| HS 331--Food Production Management                  | 4  |

### Option 4: Historical Preservation

|                                                  |    |
|--------------------------------------------------|----|
| <b>Core Requirements</b>                         | 27 |
| <b>Option Requirements</b>                       | 19 |
| CON 101--Introduction to Construction Technology | 3  |
| CON 202--Structural Design                       | 3  |
| GCT 103--Technical Drawing                       | 3  |
| HS 252--Problems in Interior Design              | 3  |
| HS 351--Housing; or                              |    |
| GCT 305--Housing                                 | 3  |
| Electives                                        | 4  |

### Minor in Historical Preservation

|                                             |    |
|---------------------------------------------|----|
| <b>Requirements</b>                         | 15 |
| HS 250--Visual Merchandising                | 3  |
| HS 252--Problems in Interior Design         | 3  |
| HS 323--Textiles                            | 3  |
| HS 351--Housing (Prerequisite: GCT 103); or |    |
| GCT 305--Housing (Prerequisite: GCT 103)    | 3  |
| HS 332--Field Experience; or                |    |
| HS 239/439--Cooperative Education           | 3  |
| Select any three of the following courses   | 9  |
| HS 344--Historical Costume                  | 3  |

|                                                   |    |
|---------------------------------------------------|----|
| HS 382--History of Interiors                      | 3  |
| HS 557--Interior Design Projects                  | 3  |
| AGR 212--Landscape Plants                         | 3  |
| AGR 213--Landscape Design (Prerequisite: AGR 212) | 3  |
| AGR 317--Floral Design                            | 3  |
| CONS 101--Introduction to Construction Technology |    |
| (Prerequisite: MATH 141)                          | 3  |
| CONS 202--Structural Design                       | 3  |
| CONS 203--Construction Methods and Equipment      | 3  |
| CONS 204--Codes, Contracts, and Specifications    | 3  |
| GCT 103--Technical Drawing                        | 3  |
| HIS 544--Kentucky Historical Tours                | 3  |
|                                                   | 24 |

## Personal Development Institute

Classes in the Personal Development Institute are available on a nine-week schedule. There are no academic majors or minors offered. One hour of credit is awarded for the classes. Please refer to the course description section for course offerings.

### Department of Industrial Education and Technology

Mr. Robert Hayes, Chair  
(606) 783-2013  
210 Lloyd Cassity Building

## Industrial Technology

**Faculty**--W. Grise', R. Hayes (Chair), D. Karwatka, W. Morella, E. Nass, W. C. Patrick, J. Smallwood, R. Spangler, R. Stanley, R. Tucker, A. Zargari

### Competencies Required in the Associate of Applied Science in Industrial Technology Program

*Students completing the program should be able to:*

1. Perform entry level technical occupations in business, industry, and service organizations.
2. Understand and apply theory and concepts of related disciplines in order to solve technical problems.
3. Apply concepts and skills developed in a variety of disciplines to successfully perform as technicians in the workforce.
4. Develop a field of specialization in one of the following areas: construction/mining, electrical/electronics, graphic communications and design, or manufacturing and robotics.

### Assessment Procedures:

1. Exit Examinations
2. Survey of graduating seniors
3. Randomly administered alumni survey

*NOTE: Students are required to obtain a grade of "C" in all technical and supplemental courses requiring a performance competency.*

## Associate of Applied Science in Industrial Technology

|                                                          |    |
|----------------------------------------------------------|----|
| <b>General Education</b> .....                           | 21 |
| (See general education requirements for the University.) |    |

The following specific general education requirements must be completed:

|                                                |   |
|------------------------------------------------|---|
| *MATH 135--Math for Technical Students; and/or |   |
| MATH 141--Plane Trigonometry; and/or           |   |
| MATH 152--College Algebra .....                | 6 |

\*Not accepted as satisfying program requirement in Construction/Mining, Electrical/Electronics, and Manufacturing/Robotics options.

Students must complete a minimum of 33 semester hours in the area of Industrial Technology, of which 18 semester hours are the following core Industrial Technology course requirements. The other 15 semester hours will be selected from one of the following technical options: Construction/Mining Technology, Electrical/Electronics Technology, Graphic Communications Technology, or Manufacturing/Robotics Technology.

|                                                   |    |
|---------------------------------------------------|----|
| <b>Core Requirements</b> .....                    | 18 |
| CON 303--Materials Properties and Testing .....   | 3  |
| **EET 140--Basic Electricity; or                  |    |
| EET 141--Direct Current Circuits (DC) .....       | 3  |
| GCT 103--Fundamentals of Technical Graphics ..... | 3  |
| IET 100--World of Technology                      |    |
| or IET 120--Technology Systems .....              | 3  |
| IET 320--Supervisory Practices .....              | 3  |
| MFT 186--Manufacturing and Fabrication .....      | 3  |

\*\*EET 140 not accepted as satisfying program requirements in Electrical/Electronics and Manufacturing/Robotics options.

### Option 1: Construction/Mining Technology

|                                                               |    |
|---------------------------------------------------------------|----|
| <b>General Education Requirements</b> .....                   | 21 |
| <b>Core Requirements</b> .....                                | 18 |
| <b>Option Requirements</b> .....                              | 15 |
| CON 101--Intro. to Construction Technology; or                |    |
| MIN 101--Intro. to Mining and Reclamation .....               | 3  |
| CON 203--Construction Methods and Equipment .....             | 3  |
| CON 210--Surveying I .....                                    | 3  |
| Two courses .....                                             | 6  |
| (Select from the following list in consultation with advisor) |    |
| CON 202--Structural Design                                    |    |
| CON 204--Codes, Contracts, and Specifications                 |    |
| CON 205--Estimating and Construction Costs                    |    |
| CON 206--Construction Management                              |    |
| CON 310--Surveying II                                         |    |
| MIN 302--Coal Analysis and Preparation                        |    |
| MIN 303--Mine Laws                                            |    |
| MIN 305--Surface Mining Systems                               |    |
| MIN 307--Hydrology                                            |    |
| <b>Electives</b> .....                                        | 10 |
| (Electives may not be related to the option.)                 |    |

Total 64

### Option 2: Electrical/Electronics Technology

|                                                  |    |
|--------------------------------------------------|----|
| <b>General Education Requirements</b> .....      | 21 |
| <b>Core Requirements</b> .....                   | 18 |
| <b>Option Requirements</b> .....                 | 15 |
| EET 240--Residential Wiring .....                | 3  |
| EET 215--Basic Control Systems .....             | 3  |
| EET 241--Alternating Current Circuits (AC) ..... | 3  |
| EET 242--Transistors and Semiconductors .....    | 3  |
| EET 245--Digital Electronics .....               | 3  |
| <b>Electives</b> .....                           | 10 |
| (Electives may not be related to the option.)    |    |

Total 64

### Option 3: Graphic Communications Technology

|                                                               |    |
|---------------------------------------------------------------|----|
| <b>General Education Requirements</b> .....                   | 21 |
| <b>Core Requirements</b> .....                                | 18 |
| <b>Option Requirements</b> .....                              | 15 |
| (Select from the following list in consultation with advisor) |    |
| GCT 102--Graphic Arts I .....                                 | 3  |
| GCT 202--Graphic Arts II .....                                | 3  |
| GCT 203--Technical Drawing II .....                           | 3  |
| GCT 204--Descriptive Geometry .....                           | 3  |
| GCT 215--Computer Aided Drafting .....                        | 3  |
| GCT 301--Tool Layout & Design .....                           | 3  |
| GCT 302--Offset Lithography .....                             | 3  |
| GCT 303--Technical Illustration .....                         | 3  |
| GCT 305--Housing .....                                        | 3  |
| GCT 315--Computer Aided Design .....                          | 3  |
| GCT 350--Machine Composition I .....                          | 3  |
| <b>Electives</b> .....                                        | 10 |
| (Electives may not be related to the option.)                 |    |

Total 64

### Option 4: Historic Preservation

|                                                        |    |
|--------------------------------------------------------|----|
| <b>General Education Requirements</b> .....            | 21 |
| <b>Core Requirements</b> .....                         | 18 |
| <b>Option Requirements</b> .....                       | 15 |
| CON 101--Introduction to Construction Technology ..... | 3  |
| CON 202--Structural Design .....                       | 3  |
| HS 252--Problems in Interior Design .....              | 3  |
| HS 351--Housing; or                                    |    |
| GCT 305--Housing .....                                 | 3  |
| GCT 103--Fundamentals of Technical Drawing .....       | 3  |
| <b>Electives</b> .....                                 | 7  |
| (Electives may not be related to the option.)          |    |

Total 64

### Option 5: Manufacturing/Robotics Technology

|                                                                |    |
|----------------------------------------------------------------|----|
| <b>General Education Requirements</b> .....                    | 21 |
| <b>Core Requirements</b> .....                                 | 18 |
| <b>Option Requirements</b> .....                               | 15 |
| (Select from the following list in consultation with advisor.) |    |
| MFT 106--Thermoplastics Processing .....                       | 3  |
| MFT 286--Machine Tool Process .....                            | 3  |
| MFT 306--Mold Design and Construction .....                    | 3  |
| MFT 386--NC-CNC Manufacturing Technology .....                 | 3  |
| ROB 170--Fundamentals of Robotics .....                        | 3  |
| ROB 270--Robotics Systems Engineering .....                    | 3  |
| WEL 386--Welding .....                                         | 3  |
| IET 160--Intro. to Power and Fluids .....                      | 3  |
| IET 260--Hydraulics and Pneumatics .....                       | 3  |

|                                               |    |
|-----------------------------------------------|----|
| <b>Electives</b> .....                        | 10 |
| (Electives may not be related to the option.) |    |

Total 64

## Bachelor of Science in Industrial Technology

### Competencies Required in the Bachelor of Science in Industrial Technology Program

Students completing this program should be able to:

1. Perform technical-management occupations in business, industry, education and government.
2. Apply theories, concepts, and principles of humanities, social and behavioral sciences, and other disciplines to develop communications skills required for supervisors and technical-managers.
3. Understand and apply concepts of mathematics, physics, statistics, economics, computer fundamentals, and other disciplines in order to solve technological problems.
4. Apply concepts and skills developed in a variety of technical and related disciplines including materials and production processes, supervisory and management principles, and quality control to manage personnel and facilities.
5. Develop a field of specialization in one of the following areas: construction/mining, electrical/electronics, graphic communications and design, or manufacturing and robotics.

### Assessment Procedures

1. Exit examinations
2. Capstone project
3. Survey of graduating seniors
4. Randomly administered survey of alumni

**NOTE:** Students are required to obtain a grade of "C" in all technical and supplemental courses requiring a performance competency.

### Area of Concentration

The student must complete the departmental and University general education requirements and a minimum of 56 semester hours in the area of Industrial Technology, of which 32 semester hours are the Industrial Technology core requirements. The other 24 semester hours will be selected from one of the following technical options: Construction/Mining Technology, Electrical/Electronics Technology, Graphic Communications Technology, or Manufacturing/Robotics Technology.

**NOTE:** A maximum of twelve academic credits are offered in the B.S. degree program from Industrial Work Experience through cooperative education study. The courses 239, 339, and 439 within content areas of CON, EET, GCT, IET, MFT, and ROB can be selected following consultation with the student's advisor.

|                                                          |    |
|----------------------------------------------------------|----|
| <b>General Education Requirements</b> .....              | 48 |
| (See general education requirements for the University.) |    |

The following specific general education requirements must be completed for all Industrial Technology options:

|                                                     |   |
|-----------------------------------------------------|---|
| MATH 141--Plane Trigonometry; or                    |   |
| MATH 152--College Algebra .....                     | 3 |
| PHYS 201--Elementary Physics I .....                | 3 |
| PHYS 201A--Elementary Physics I Lab .....           | 1 |
| ECON 101--Introduction to Economics; or             |   |
| ECON 201--Principles of Macroeconomics Economics .. | 3 |
| IET 300--Technology and Society .....               | 3 |
| IET 499C--Senior Project .....                      | 3 |

### Core Requirements .....

|                                                                                                                                   |   |
|-----------------------------------------------------------------------------------------------------------------------------------|---|
| CON 303--Materials Properties and Testing .....                                                                                   | 3 |
| *EET 140--Basic Electricity; or                                                                                                   |   |
| EET 141--Direct Current Circuits (DC) .....                                                                                       | 3 |
| GCT 103--Fundamentals of Technical Graphics .....                                                                                 | 3 |
| IET 100--World of Technology; or                                                                                                  |   |
| IET 120--Technology Systems .....                                                                                                 | 3 |
| IET 317--Time and Motion Study .....                                                                                              | 2 |
| IET 319--Quality Control .....                                                                                                    | 3 |
| IET 320--Supervisory Practices .....                                                                                              | 3 |
| IET 327--Applied Industrial Management .....                                                                                      | 3 |
| IET 330--Industrial Design .....                                                                                                  | 2 |
| IET 371--Seminar .....                                                                                                            | 1 |
| IET 419--Total Quality Improvement .....                                                                                          | 3 |
| MFT 186--Manufacturing and Fabrication .....                                                                                      | 3 |
| *EET 140 not accepted as satisfying program requirements in Electrical/Electronics and Manufacturing/Robotics Technology Options. |   |

### Option 1: Construction/Mining Technology

|                                             |    |
|---------------------------------------------|----|
| <b>General Education Requirements</b> ..... | 48 |
|---------------------------------------------|----|

|                                |    |
|--------------------------------|----|
| <b>Core Requirements</b> ..... | 32 |
|--------------------------------|----|

|                                  |    |
|----------------------------------|----|
| <b>Option Requirements</b> ..... | 24 |
|----------------------------------|----|

|                                                   |   |
|---------------------------------------------------|---|
| CON 101--Intro. to Construction Technology; or    |   |
| MIN 101--Intro. to Mining and Reclamation .....   | 3 |
| CON 203--Construction Methods and Equipment ..... | 3 |
| CON 210--Surveying I .....                        | 3 |
| CON 310--Surveying II .....                       | 3 |
| MIN 305--Surface Mining .....                     | 3 |
| MIN 307--Hydrology .....                          | 3 |
| Select from the following list .....              | 6 |
| CON 202--Structural Design                        |   |
| CON 204--Codes, Contracts, and Specifications     |   |
| CON 205--Estimating and Construction Costs        |   |
| CON 206--Construction Management                  |   |
| MIN 302--Coal Analysis and Preparation            |   |
| MIN 303--Mine Laws                                |   |
| MIN 402--Mine Roof and Rib Control                |   |
| MIN 403--Blasting and Explosives                  |   |
| MIN 406--Underground Mine Technology              |   |

|                        |    |
|------------------------|----|
| <b>Electives</b> ..... | 24 |
|------------------------|----|

(Must include at least 3 semester hours of mathematics and 3 semester hours of management in addition to the general education requirements. Electives may not be related to the option.)

Total 128

### Option 2: Electrical/Electronics Technology

|                                             |    |
|---------------------------------------------|----|
| <b>General Education Requirements</b> ..... | 48 |
|---------------------------------------------|----|

|                                |    |
|--------------------------------|----|
| <b>Core Requirements</b> ..... | 32 |
|--------------------------------|----|

|                                  |    |
|----------------------------------|----|
| <b>Option Requirements</b> ..... | 24 |
|----------------------------------|----|

(Select from the following list in consultation with advisor)

|                                      |   |
|--------------------------------------|---|
| EET 215--Basic Control Systems ..... | 3 |
|--------------------------------------|---|

|                                               |    |
|-----------------------------------------------|----|
| EET 240--Residential Wiring                   | 3  |
| EET 241--Alternating Current Circuits (AC)    | 3  |
| EET 242--Transistors and Semiconductors       | 3  |
| EET 245--Digital Circuits                     | 3  |
| EET 342--Electronic Devices and Circuits      | 3  |
| EET 344--Communication Circuits               | 3  |
| EET 345--Microprocessor Electronics           | 3  |
| EET 443--Industrial Electricity               | 3  |
| EET 444--Communication Systems                | 3  |
| EET 445--Computer Electronics                 | 3  |
| EET 480--Digital Communication and Networking | 3  |
| ROB 370--Robotics Interfacing Engineering     | 3  |
| <b>Electives</b>                              | 24 |

(Must include at least 3 semester hours of mathematics and 3 semester hours of management in addition to the general education requirements. Electives may not be related to the option.)

Total 128

### Option 3: Graphic Communication Technology

|                                       |    |
|---------------------------------------|----|
| <b>General Education Requirements</b> | 48 |
| <b>Core Requirements</b>              | 32 |
| <b>Option Requirements</b>            | 24 |

(Select from the following list in consultation with advisor.)

|                                     |    |
|-------------------------------------|----|
| CON 202--Structural Design          | 3  |
| CON 210--Surveying I                | 3  |
| GCT 102--Graphic Arts I             | 3  |
| GCT 202--Graphic Arts II            | 3  |
| GCT 203--Technical Drawing II       | 3  |
| GCT 204--Descriptive Geometry       | 3  |
| GCT 215--Computer Aided Drafting    | 3  |
| GCT 301--Tool Layout and Design     | 3  |
| GCT 302--Offset Lithography         | 3  |
| GCT 303--Technical Illustration     | 3  |
| GCT 305--Housing                    | 3  |
| GCT 315--Computer Aided Design      | 3  |
| GCT 322--Photography                | 3  |
| GCT 350--Machine Composition I      | 3  |
| GCT 351--Graphic Duplication        | 3  |
| GCT 403--Machine Drawing and Design | 3  |
| GCT 404--Architectural Drawing      | 3  |
| GCT 405--Civil Drafting             | 3  |
| GCT 450--Machine Composition        | 3  |
| <b>Electives</b>                    | 24 |

(Must include at least 3 semester hours of mathematics and 3 semester hours of management in addition to the general education requirements. Electives may not be related to the option.)

Total 128

### Option 4: Manufacturing/Robotics Technology

|                                       |    |
|---------------------------------------|----|
| <b>General Education Requirements</b> | 48 |
| <b>Core Requirements</b>              | 32 |
| <b>Option Requirements</b>            | 24 |

(Select from the following list in consultation with advisor.)

|                                                      |   |
|------------------------------------------------------|---|
| EET 215--Basic Control Systems                       | 3 |
| GCT 215--Computer Aided Drafting                     | 3 |
| GCT 301--Tool Layout and Design                      | 3 |
| IET 260--Hydraulics and Pneumatics                   | 3 |
| IET 422--Industrial Safety Standards and Enforcement | 3 |
| MFT 106--Thermoplastic Processing                    | 3 |
| MFT 286--Machine Tool Processes                      | 3 |
| MFT 306--Mold Design and Construction                | 3 |
| MFT 386--NC-CNC Manufacturing Technology             | 3 |
| MFT 488--Flexible Manufacturing Engineering Tech     | 3 |
| ROB 170--Fundamentals of Robotics                    | 3 |

|                                            |    |
|--------------------------------------------|----|
| ROB 270--Robotics Systems Engineering      | 3  |
| ROB 370--Robotics Interfacing Engineering  | 3  |
| ROB 470--Robotics Applications Engineering | 3  |
| WEL 307--Automated Welding Technology      | 3  |
| WEL 386--Welding I                         | 3  |
| <b>Electives</b>                           | 24 |

(Must include at least 3 semester hours of mathematics and 3 semester hours of management in addition to the general education requirements. Electives may not be related to the option.)

Total 128

### Major

The student must complete the departmental and University general education requirements and a minimum 36 semester hours in the area of Industrial Technology, of which 24 semester hours are from the Industrial Technology core requirements. The other 12 semester hours will be selected from one of the following technical options: Construction/Mining Technology, Electrical/Electronics Technology, Graphic Communications Technology, or Manufacturing/Robotics Technology. The major must be accompanied by a minor or a second major.

**NOTE:** A maximum of 12 academic credits are offered in the B.S. degree program from Industrial Work Experience through cooperative study. The courses 239, 339, and 439 within the content areas of CON, GCT, EET, IET, MFT, and ROB can be selected following consultation with the student's advisor.

#### General Education Requirements 48

(See general education requirements listed under Bachelor of Science in Industrial Technology.)

#### Core Requirements 24

|                                                                                                                                   |   |
|-----------------------------------------------------------------------------------------------------------------------------------|---|
| CON 303--Material Properties and Testing                                                                                          | 3 |
| *EET 140--Basic Electricity; or                                                                                                   |   |
| EET 141--Direct Current Circuits (DC)                                                                                             | 3 |
| GCT 103--Fundamentals of Technical Graphics                                                                                       | 3 |
| IET 100--World of Technology; or                                                                                                  |   |
| IET 120--Technology Systems                                                                                                       | 3 |
| IET 319--Quality Control                                                                                                          | 3 |
| IET 320--Supervisory Practices                                                                                                    | 3 |
| IET 330--Industrial Design; or                                                                                                    |   |
| IET 317--Time and Motion Study                                                                                                    | 2 |
| IET 371--Seminar                                                                                                                  | 1 |
| MFT 186--Manufacturing and Fabrication                                                                                            | 3 |
| *EET 140 not accepted as satisfying program requirements in Electrical/Electronics and Manufacturing/Robotics Technology options. |   |

### Option 1: Construction/Mining Technology

#### General Education Requirements 48

#### Core Requirements 24

#### Option Requirements 12

(Select from the following list in consultation with advisor.)

|                                               |   |
|-----------------------------------------------|---|
| CON 101--Intro. to Construction Technology    | 3 |
| CON 202--Structural Design                    | 3 |
| CON 203--Construction Methods and Equipment   | 3 |
| CON 204--Codes, Contracts, and Specifications | 3 |
| CON 205--Estimating and Construction Costs    | 3 |
| CON 206--Construction Management              | 3 |
| CON 210--Surveying I                          | 3 |
| CON 310--Surveying II                         | 3 |
| MIN 101--Intro. to Mining and Reclamation     | 3 |

|                                        |    |
|----------------------------------------|----|
| MIN 302--Coal Analysis and Preparation | 3  |
| MIN 303--Mine Laws                     | 3  |
| MIN 305--Surface Mining Systems        | 3  |
| MIN 307--Hydrology                     | 3  |
| MIN 402--Mine Roof and Rib Control     | 3  |
| MIN 403--Blasting and Explosives       | 3  |
| MIN 406--Underground Mine Technology   | 3  |
| Electives                              | 20 |

(Must include at least 3 semester hours of mathematics in addition to the general education requirements. Electives may not be related to the option.)

|                                                                     |    |
|---------------------------------------------------------------------|----|
| Minor or Second Major                                               | 24 |
| (The departmental recommendation supports the second major option.) |    |

Total 128

## Option 2: Electrical/Electronics Technology

|                                |    |
|--------------------------------|----|
| General Education Requirements | 48 |
| Core Requirements              | 24 |
| Option Requirements            | 12 |

(Select from the following list in consultation with advisor)

|                                               |    |
|-----------------------------------------------|----|
| EET 215--Basic Control Systems                | 3  |
| EET 240--Residential Wiring                   | 3  |
| EET 241--Alternating Current Circuits (AC)    | 3  |
| EET 242--Transistors and Semiconductors       | 3  |
| EET 245--Digital Circuits                     | 3  |
| EET 342--Electronic Devices and Circuits      | 3  |
| EET 344--Communication Circuits               | 3  |
| EET 345--Microprocessor Electronics           | 3  |
| EET 443--Industrial Electricity               | 3  |
| EET 444--Communication Systems                | 3  |
| EET 445--Computer Electronics                 | 3  |
| EET 480--Digital Communication and Networking | 3  |
| ROB 370--Robotics Interfacing Engineering     | 3  |
| Electives                                     | 20 |

(Must include at least 3 semester hours of mathematics and 3 semester hours of management in addition to the general education requirements. Electives may not be related to the option.)

|                                                                     |    |
|---------------------------------------------------------------------|----|
| Minor or Second Major                                               | 24 |
| (The departmental recommendation supports the second major option.) |    |

Total 128

## Option 3: Graphic Communication Technology

|                                |    |
|--------------------------------|----|
| General Education Requirements | 48 |
| Core Requirements              | 24 |
| Option Requirements            | 12 |

(Select from the following list in consultation with advisor.)

|                                     |   |
|-------------------------------------|---|
| CON 202--Structural Design          | 3 |
| CON 210--Surveying I                | 3 |
| GCT 102--Graphic Arts I             | 3 |
| GCT 202--Graphic Arts II            | 3 |
| GCT 203--Technical Drawing II       | 3 |
| GCT 204--Descriptive Geometry       | 3 |
| GCT 215--Computer Aided Drafting    | 3 |
| GCT 301--Tool Layout and Design     | 3 |
| GCT 302--Offset Lithography         | 3 |
| GCT 303--Technical Illustration     | 3 |
| GCT 305--Housing                    | 3 |
| GCT 315--Computer Aided Design      | 3 |
| GCT 322--Photography                | 3 |
| GCT 350--Machine Composition I      | 3 |
| GCT 351--Graphic Duplication        | 3 |
| GCT 403--Machine Drawing and Design | 3 |

|                                 |    |
|---------------------------------|----|
| GCT 404--Architectural Drawing  | 3  |
| GCT 405--Civil Drafting         | 3  |
| GCT 450--Machine Composition II | 3  |
| IET 317--Time and Motion Study  | 2  |
| IET 330--Industrial Design      | 2  |
| Electives                       | 20 |

(Must include at least 3 semester hours of mathematics in addition to the general education requirements. Electives may not be related to the option.)

|                                                                     |    |
|---------------------------------------------------------------------|----|
| Minor or Second Major                                               | 24 |
| (The departmental recommendation supports the second major option.) |    |

Total 128

## Option 4: Manufacturing/Robotics Technology

|                                |    |
|--------------------------------|----|
| General Education Requirements | 48 |
| Core Requirements              | 24 |
| Option Requirements            | 12 |

(Select from the following list in consultation with advisor.)

|                                                      |    |
|------------------------------------------------------|----|
| EET 215--Basic Control Systems                       | 3  |
| GCT 215--Computer Aided Drafting                     | 3  |
| GCT 301--Tool Layout and Design                      | 3  |
| IET 260--Hydraulics and Pneumatics                   | 3  |
| IET 422--Industrial Safety Standards and Enforcement | 3  |
| MFT 106--Thermoplastic Processing                    | 3  |
| MFT 286--Machine Tool Processes                      | 3  |
| MFT 306--Mold Design and Construction                | 3  |
| MFT 386--NC-CNC Manufacturing Technology             | 3  |
| MFT 488--Flexible Manufacturing Engineering Tech     | 3  |
| ROB 170--Fundamentals of Robotics                    | 3  |
| ROB 270--Robotics Systems Engineering                | 3  |
| ROB 370--Robotics Interfacing Engineering            | 3  |
| ROB 470--Robotics Applications Engineering           | 3  |
| WEL 307--Automated Welding Technology                | 3  |
| WEL 386--Welding I                                   | 3  |
| Electives                                            | 20 |

(Must include at least 3 semester hours of mathematics and 3 semester hours of management in addition to the general education requirements. Electives may not be related to the option.)

|                                                                   |    |
|-------------------------------------------------------------------|----|
| Minor or Second Major                                             | 24 |
| The departmental recommendation supports the second major option. |    |

Total 128

## Bachelor of Science in Industrial Education

**Faculty**--W. Grise', R. Hayes (Chair), D. Karwatka, W. Morella, E. Nass, W. C. Patrick, J. Smallwood, R. Spangler, R. Stanley, R. Tucker, A. Zargari

### Competencies Required in the Bachelor of Science in Industrial Education Program

At the completion of the teacher education program, the new teacher (student) will be able to:

1. Teach technology courses in one of the following areas: construction/mining, electrical/electronics, graphics communication, manufacturing and robotics.

2. *Demonstrate specific technical skills in the specific teaching area.*
3. *Teach problem-solving skills required for performing and maintaining career in a professional field.*
4. *Demonstrate proficiency in evaluating student performance in their specific field.*

#### Assessment Procedure

1. *Exit examinations*
2. *Survey of graduating seniors*
3. *Randomly administered survey of alumni*

*NOTE: Students are required to obtain a grade of "C" in all technical and supplemental courses requiring a performance competency.*

#### Area of Concentration

The student must complete the departmental and University general education requirements, a minimum of 48 semester hours in the area of Industrial Education and Technology, of which 30 semester hours are the following core Industrial Education and Technology course requirements. The other 18 semester hours will be selected from one of one technical area or from a combination of the following technical options: Construction/Mining Technology, Electrical/Electronics Technology, Graphic Communications Technology, or Manufacturing/Robotics Technology, to fulfill State of Kentucky Certification guidelines.

**NOTE:** Industrial Education majors are required to have documented evidence of 2,000 clock hours of work experience for Preparation Level, and 1,000 clock hours of work experience for Orientation/Exploration Level. This work experience is to be directly related to their teaching area. If this requirement has not been met prior to entering this degree program, it can be fulfilled by way of IET 398, Supervised Work Experience, for 3 semester hours.

#### General Education Requirements . . . . . 48

(See general education requirements for the University.)

The following specific general education requirements must be completed for Industrial Education options:

|                                               |   |
|-----------------------------------------------|---|
| MATH 152--College Algebra . . . . .           | 3 |
| PHYS 201--Elementary Physics I . . . . .      | 3 |
| PHYS 201A--Elementary Physics I Lab . . . . . | 1 |

#### Core Requirements . . . . . 30

|                                                        |   |
|--------------------------------------------------------|---|
| EET 140--Basic Electricity . . . . .                   | 3 |
| EET 240--Residential Wiring; or                        |   |
| EET 245--Digital Circuits . . . . .                    | 3 |
| GCT 102--Graphic Arts I . . . . .                      | 3 |
| GCT 103--Fundamentals of Technical Graphics . . . . .  | 3 |
| GCT 202--Graphic Arts II . . . . .                     | 3 |
| GCT 203--Technical Drawing II; or                      |   |
| GCT 215--Computer Aided Drafting . . . . .             | 3 |
| IET 100--World of Technology; or                       |   |
| IET 300--Technology and Society . . . . .              | 3 |
| VOC 207--Foundations of Vocational Education . . . . . | 3 |
| or                                                     |   |

|                                                                                                          |    |
|----------------------------------------------------------------------------------------------------------|----|
| An accredited sequence of occupational courses in one specific vocational or occupational area . . . . . | 24 |
| MFT 186--Manufacturing and Fabrication . . . . .                                                         | 3  |
| MFT 286--Machine Tool Processes; or                                                                      |    |
| ROB 170--Fundamentals of Robotics . . . . .                                                              | 3  |

#### Option 1: Industrial Education

##### Orientation/Exploration Level

General Education Requirements . . . . . 48

Core Requirements . . . . . 30

Option Requirements . . . . . 18

(Select from the following list in consultation with advisor.)

|                                                          |   |
|----------------------------------------------------------|---|
| CON 101--Introduction to Construction Tech; or           |   |
| CON 303--Materials Properties and Testing . . . . .      | 3 |
| IET 111--Basic Woods . . . . .                           | 3 |
| IET 160--Introduction to Power and Fluid . . . . .       | 3 |
| IET 260--Hydraulics and Pneumatics . . . . .             | 3 |
| IET 371--Seminar in Industrial Education . . . . .       | 1 |
| IET 398--Supervised Work Experience; or                  |   |
| IET 422--Ind. Safety Standards and Enforcement . . . . . | 3 |
| IET 496--Organization and Management of the Lab; or      |   |
| IET 320--Supervisory Practices . . . . .                 | 3 |

##### Professional Requirements for

Teacher Certification . . . . . 35

|                                                              |    |
|--------------------------------------------------------------|----|
| EDEM 330--Foundations of Reading . . . . .                   | 3  |
| EDF 211--Human Growth and Development . . . . .              | 3  |
| EDF 311--Learning Theories in the Classroom . . . . .        | 3  |
| EDMG 332--Reading Strategies for the Middle School . . . . . | 3  |
| EDSE 333--Field Experience in Secondary Classroom . . . . .  | 2  |
| EDSP 332--Teaching the Exceptional Student . . . . .         | 3  |
| IET 392--Instructional Technology . . . . .                  | 3  |
| IET 470--Methods of Instruction . . . . .                    | 3  |
| IET 478--Student Teaching Practicum . . . . .                | 12 |

Total 131

#### Option 2: Industrial Education Preparation Level

General Education Requirements . . . . . 48

Core Requirements . . . . . 30

Option Requirements . . . . . 18

(Select from the following list in consultation with advisor.)

|                                                               |   |
|---------------------------------------------------------------|---|
| IET 185--Methods of Instruction in Voc. Education . . . . .   | 3 |
| IET 320--Supervisory Practices . . . . .                      | 3 |
| IET 364--Career and Vocational Guidance . . . . .             | 3 |
| IET 388--Methods of Curriculum Development . . . . .          | 3 |
| IET 422--Ind. Safety Standards and Enforcement . . . . .      | 3 |
| IET 497--Seminar in Vocational Industrial Education . . . . . | 1 |
| Technical Electives . . . . .                                 | 2 |

##### Professional Requirements for

Teacher Certification . . . . . 32

|                                                                        |   |
|------------------------------------------------------------------------|---|
| EDF 211--Human Growth and Development . . . . .                        | 3 |
| EDF 311--Learning Theories in the Classroom . . . . .                  | 3 |
| EDSP 332--Teaching the Exceptional Student . . . . .                   | 3 |
| IET 392--Instructional Technology . . . . .                            | 3 |
| IET 393--Methods in Industrial Education . . . . .                     | 3 |
| IET 394--Student Teaching in Vocational Industrial Education . . . . . | 8 |
| Electives . . . . .                                                    | 9 |

Total 128

## Department of Mathematics

Rodger Hammons, Chair  
(606) 783-2930  
105 Lappin Hall

## Mathematics

**Faculty**--D. Ahmadi, V. Cyrus, R. Hammons (Chair), L. Jaisingh, T. Klein, T. Mingus, G. Nolen, T. Pack, R. Ross, J. Saxon, D. Seth, D. Spickler, J. Summerville

### Competencies Required in the Program

#### Expected Educational Results:

1. The student exiting the programs in mathematics must be able to analyze and solve problems in the areas of algebra, analysis, statistics, and geometry. The student should be able to work individually and as a member of a team. Depending on the program emphasis, the student should possess the concept comprehension skills mentioned above at a sufficient level of expertise to function successfully as a teacher of mathematics, as a contributing member in business or industry, or as a graduate student pursuing an advanced degree in mathematics.
2. The student must be able to use technology as an aid in the solution of problems. Specifically, the student must be able to write and effectively use programs for computers and programmable or graphing calculators.
3. The student must develop appropriate learning skills to foster the investigation of mathematical ideas and direct his/her own learning.
4. The student must be able to communicate the mathematical ideas learned in the program. This ability must exist in both written and oral forms of communication.

#### Assessment Procedures

Senior capstone  
Portfolios in selected junior and senior classes  
Survey of graduates  
Exit interviews

## Bachelor of Science

The Department of Mathematical Sciences is committed to the education of students who intend (1) to teach mathematics at any level, (2) to apply mathematics in industry or government, or (3) to use mathematical techniques and concepts in their chosen fields of endeavor.

### Major

MATH 170--Introduction to Algorithms . . . . . 3

|                                                                                                                                                                                                       |    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| MATH 175--Analytic Geometry and Calculus I . . . . .                                                                                                                                                  | 4  |
| MATH 275--Analytic Geometry and Calculus II . . . . .                                                                                                                                                 | 4  |
| MATH 276--Analytic Geometry and Calculus III . . . . .                                                                                                                                                | 4  |
| MATH 300--Introduction to Mathematical Proof . . . . .                                                                                                                                                | 3  |
| MATH 301--Elementary Linear Algebra . . . . .                                                                                                                                                         | 3  |
| MATH 365--Introduction to Mathematical Statistics . . . . .                                                                                                                                           | 3  |
| MATH 499C--Senior Capstone . . . . .                                                                                                                                                                  | 3  |
| Electives from mathematics courses above 300 level except Math 330, Math 332, Math 353, Math 354, Math 373, or Math 374 as approved by the Chair of the Department of Mathematical Sciences . . . . . |    |
|                                                                                                                                                                                                       | 11 |
|                                                                                                                                                                                                       | 38 |

### Major (Teaching)

|                                                             |    |
|-------------------------------------------------------------|----|
| MATH 170--Introduction to Algorithms . . . . .              | 3  |
| MATH 175--Analytic Geometry and Calculus I . . . . .        | 4  |
| MATH 275--Analytic Geometry and Calculus II . . . . .       | 4  |
| MATH 300--Introduction to Mathematical Proof . . . . .      | 3  |
| MATH 301--Elementary Linear Algebra; or                     |    |
| MATH 308--Discrete Mathematics . . . . .                    | 3  |
| MATH 350--Introduction to Higher Algebra . . . . .          | 3  |
| MATH 365--Introduction to Mathematical Statistics . . . . . | 3  |
| MATH 370--College Geometry I . . . . .                      | 3  |
| MATH 371--College Geometry II . . . . .                     | 3  |
| MATH 373--Principles and Techniques of                      |    |
| Teaching Mathematics . . . . .                              | 3  |
| MATH 374--Clinical and Field Experiences                    |    |
| in the Teaching of Mathematics . . . . .                    | 3  |
| MATH 499C--Senior Capstone . . . . .                        | 3  |
|                                                             | 38 |

In addition, the Department strongly recommends that teaching majors complete MATH 276 and both MATH 301 and MATH 308.

### Minor

|                                                                                                                                                                                                                                              |    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| MATH 170--Introduction to Algorithms . . . . .                                                                                                                                                                                               | 3  |
| MATH 175--Analytic Geometry and Calculus I . . . . .                                                                                                                                                                                         | 4  |
| MATH 275--Analytic Geometry and Calculus II . . . . .                                                                                                                                                                                        | 4  |
| Electives from Math 174, Math 276, or other mathematics courses at or above the 300 level except Math 330, Math 332, Math 353, Math 354, Math 373, or Math 374 as approved by the Chair of the Department of Mathematical Sciences . . . . . |    |
|                                                                                                                                                                                                                                              | 13 |
|                                                                                                                                                                                                                                              | 24 |

### Minor in Statistics

|                                                             |    |
|-------------------------------------------------------------|----|
| OPTION I -- Non Calculus Track                              |    |
| Elective in Mathematics, from 152-199 level . . . . .       | 3  |
| MATH 301--Elementary Linear Algebra . . . . .               | 3  |
| MATH 353--Statistics . . . . .                              | 3  |
| MATH 355--Principles of Optimization . . . . .              | 3  |
| MATH 455--Linear Statistical Models . . . . .               | 3  |
| MATH 553--Concepts in the Design of Experiments . . . . .   | 3  |
| MATH 555--Nonparametric Statistics . . . . .                | 3  |
|                                                             | 21 |
| OPTION II - Calculus Track                                  |    |
| MATH 301--Elementary Linear Algebra . . . . .               | 3  |
| MATH 355--Principles of Optimization . . . . .              | 3  |
| MATH 365--Introduction to Mathematical Statistics . . . . . | 3  |
| MATH 419--Probability . . . . .                             | 3  |
| MATH 420--Mathematical Statistics . . . . .                 | 3  |
| MATH 455--Linear Statistical Models; or                     |    |
| MATH 555--Nonparametric Statistics; . . . . .               | 3  |
| MATH 553--Concepts in the Design of Experiments . . . . .   | 3  |
|                                                             | 21 |

## Mathematics and Computing

**Faculty**--D. Ahmadi, V. Cyrus, R. Hammons (Chair), L. Jaisingh, T. Klein, T. Mingus, G. Nolen, T. Pack, R. Ross, J. Saxon, D. Seth, D. Spickler, J. Summerville

### Competencies Required in the Program

Students will be able to:

1. Analyze, model and solve problems in the areas of algebra, analysis, statistics and geometry.
2. Use the computer as a tool to aid in the solution of problems.
3. Use self-motivation and self-direction in the learning of new materials.
4. Be competent in the use of the language of mathematics.
5. Develop oral and written communication skills.
6. Provide collaborative mathematics learning experiences.

### Assessment Procedures

Senior capstone  
Portfolios in selected junior and senior classes  
Survey of graduates  
Exit interviews

## Bachelor of Science

The Department of Mathematical Sciences is committed to the education of students who intend (1) to teach mathematics at any level, (2) to apply mathematics in industry or government, or (3) to use mathematical techniques and concepts in their chosen fields.

### Area of Concentration in Mathematics and Computing

#### Core Courses

|                                                   |    |
|---------------------------------------------------|----|
| MATH 170--Introduction to Algorithms              | 3  |
| MATH 175--Analytic Geometry and Calculus I        | 4  |
| MATH 260--FORTRAN Programming                     | 3  |
| MATH 275--Analytic Geometry and Calculus II       | 4  |
| MATH 276--Analytic Geometry and Calculus III      | 4  |
| MATH 300--Introduction to Mathematical Proof      | 3  |
| MATH 301--Elementary Linear Algebra               | 3  |
| MATH 308--Discrete Mathematics                    | 3  |
| MATH 312--Numerical Methods                       | 3  |
| MATH 363--Differential Equations                  | 3  |
| MATH 365--Introduction to Mathematical Statistics | 3  |
| MATH 499C--Senior Capstone                        | 3  |
| CIS 201--Introduction to Computers                | 3  |
| CIS 205--Structured C Programming                 | 3  |
| CIS 303--Data Structures; or                      |    |
| MATH 303--Data Structures                         | 3  |
| CIS 305--Advanced Structured C Programming        | 3  |
|                                                   | 51 |

#### Option I

|                                       |    |
|---------------------------------------|----|
| Core Requirements                     | 51 |
| PHYS 201--Elementary Physics I and    |    |
| PHYS 201A--Elementary Physics Lab; or |    |

|                                       |    |
|---------------------------------------|----|
| PHYS 231--Engineering Physics I and   |    |
| PHYS 231A--Engineering Physics Lab    | 4  |
| PHYS 202--Elementary Physics II and   |    |
| PHYS 202A--Elementary Physics Lab; or |    |
| PHYS 232--Engineering Physics II and  |    |
| PHYS 232A--Engineering Physics II Lab | 4  |
| PHYS 361--Fundamentals of Electronics | 3  |
| EET 345--Microprocessor Electronics   | 3  |
| EET 445--Computer Electronics         | 3  |
|                                       | 17 |
|                                       | 68 |

#### Option II

|                                                     |    |
|-----------------------------------------------------|----|
| Core Requirements                                   | 51 |
| CIS 325--Analysis and Design of Information Systems | 3  |
| CIS 426--Database Management Systems                | 3  |
| CIS 440--Data Communications                        | 3  |

|                                                        |    |
|--------------------------------------------------------|----|
| Elective in physics, electronics, computer             |    |
| information sciences or mathematics as approved by the |    |
| Chair of the Department of Mathematical Sciences       | 6  |
|                                                        | 15 |
|                                                        | 66 |

## Department of Nursing and Allied Health Sciences

Betty Porter, Chair  
(606) 783-2632  
234 Reed Hall

## Associate Degree Nursing

(606) 783-2438  
204 Lloyd Cassity Building

**Faculty**--C. Clevenger (Coordinator), Y. Duan, L. Mays, B. McKinney, S. Shires

### Competencies Required in the Program

Students will:

1. Apply principles from natural and behavioral sciences, mathematical sciences, humanities and nursing as foundation for associate degree nursing program.
2. Utilize the nursing process as a method of planning, providing and evaluating nursing care for individual groups of patients and family/significant others in various health care settings.
3. Integrate concepts and theories of individual, life span, growth and development, health and in providing nursing care which reflects the worth and dignity of individuals and families/significant others within a multicultural society.
4. Provide nursing care to promote, restore, and maintain health, prevent illness or achieve a dignified death for patients with considerations of

*patient's relationships within a family, group and community.*

5. *Demonstrate competency in the performance of technical skills and utilization of interpersonal skills.*
6. *Practice within the scope of associate degree nursing as a provider of care, manager of care, and member within the discipline of nursing.*
7. *Integrate historical, technological, ethical and legal components of nursing and local and national health care trends into associate degree nursing practice.*
8. *Assume accountability for own nursing practice and for continuing personal, professional and educational development at the associate degree level.*

#### **Assessment Procedures**

*National League for Nursing standardized examinations in specific nursing areas*

*National Council Licensure Examination for Registered Nurses*

*ADN Program Surveys of graduates and employers related to educational preparation, graduate performance in the clinical area, and employment*

### **Associate of Applied Science (Two-Year Program)**

The Associate Degree Nursing Program (ADN) is a two year program of study leading to an Associate of Applied Sciences (AAS) Degree with an area of concentration in nursing. The program combines general education studies with nursing theory and clinical education. The program is designed to prepare graduates for the role of the technical nurse. Graduates of the program are eligible to take the National Council Licensure Examination for Registered Nurses.

### **Associate Degree Nursing Program**

#### **Admission Requirements and Procedures**

The ADN program has selective admission. Enrollment in the program is limited. In the event there are more qualified applicants than positions, students with the highest ACT scores will be accepted.

#### **Application Procedure**

1. Be unconditionally admitted to Morehead State University through the University's Office of Admissions.
2. Submit a completed application packet to the Associate Degree Nursing Program:
  - A. Completed ADN application;
  - B. Official copy of high school transcript(s);
  - C. GED scores if applicable;

- D. Official American College Test Scores (ACT) or CPP scores;
  - E. Official transcripts from all universities/college attended;
  - F. University undergraduate catalog(s) if transfer credit is sought.
  - G. General Math Test Score (administered by Testing Center, Morehead State University).
3. Submit the following as applicable:
    - A. Licensed practical nurse applicants: in addition to the above materials, submit challenge exam scores and verification of current license;
    - B. Nursing transfer students: in addition to the above materials, submit nursing course syllabi of the institution from which you wish to transfer credit.
  4. Student selection process occurs during the spring semester preceding Fall admission.
  5. Applicants reapplying to the ADN Program must submit new application materials in order to be considered for admission.
  6. Students are officially admitted to the ADN program in the Fall semester of the first year of the curriculum sequence.
  7. In order to be considered for official admission to the ADN program, all materials except the health form must be submitted to the address listed below before February 1 preceding Fall admission:

Department of Nursing and Allied Health Sciences  
Morehead State University  
Student Service Officer  
Associate Degree Nursing Program  
UPO 715, Reed Hall 225  
Morehead, Kentucky 40351-1689

#### **Admission Criteria**

The Associate Degree Nursing Program has a limited enrollment. Applicants to the ADN program are selected based upon the following criteria:

1. American College Test (Enhanced ACT) Scores or CPP Scores with a mandatory minimum composite score of 19.
2. Achievement of a minimum score of 80% on the General Math Test administered by the Testing Center, Morehead State University.
3. GED validation, if applicable. Preference will be given to a standard score of 50 or above.
4. Past performance in high school and/or college/university:
  - A. Must have a "B" average in high school; or
  - B. Must have G.P.A. of 2.5 on a scale of 4.0 in required ADN program courses if completed before admission. A

minimum of 9 semester hours of college credit in general education support courses required for the Associate Degree Nursing Program must be earned in order for college G.P.A. to be considered. At least 3 of these 9 hours must be credit earned in a math or natural science course that is required in the ADN Program.

5. An interview by nursing faculty may be required for applicants who meet mandatory criteria but do not meet minimum preferred criteria.
6. Evidence of current Basic Life Support for Healthcare Providers Certification.
7. Health and Physical Capability Requirements (Also required for retention -- At the discretion of faculty, a mental and physical re-evaluation may be asked for at any point in the program):

A. Physical capabilities:

- (1) Vision capabilities:
  - (a) Normal or corrected refraction within the ranges of 20/20 to 20/190;
  - (b) Able to distinguish color shade changes
- (2) Auditory capabilities: Possess normal or corrected hearing ability within 0 to 45 decibel range.
- (3) Tactile capabilities: Possess in at least one hand the ability to perceive temperature change and pulsations and to differentiate between various textures and structures.
- (4) Language capabilities: Possess the ability to verbally communicate.
- (5) Motor capabilities: Possess 4 functional limbs (normal or artificial) which allow the following actions:
  - (a) Grasp securely with at least one hand;
  - (b) Stand for long periods of time;
  - (c) Walk unassisted.

B. Health Requirements:

- (1) Mental Health--Possess the ability to adapt to the environment, function in everyday activities, and cope with stressors.
- (2) Freedom from transmittable disease as documented by:
  - (a) Negative PPD and/or statement from a health department or physician of present status within immediate past 12 months

(b) Immunization as recommended by the advisory committee on Immunization Practices of the U.S. Public Health Services and the Committee on Infectious Diseases of the American Academy of Pediatrics.

**NOTE:** Verification of health and physical capabilities is documented by the completion of the Department of Nursing and Allied Health Sciences Applicant Health Form by a licensed physician(s) upon completion of a thorough physical examination.

**NOTE:** Admission procedures are reviewed on an annual basis. It is the applicant's responsibility to verify prior to the application deadline that the procedures/criteria have not been revised.

ADN Application forms and Department of Nursing and Allied Health Sciences Applicant Health Forms are available in the department and it is the student's responsibility for obtaining these forms.

### Conditions for Enrollment

1. Students may be assigned to clinical practicum areas other than those in the immediate Rowan County area, requiring traveling some distance from campus. Transportation to and from these settings is the responsibility of the student.
2. Clinical experiences and formal lectures may be required during various hours of the day, evening, and night.
3. Students have the responsibility for the cost incurred by enrollment in the Associate Degree Nursing program. This cost includes clothing, equipment, malpractice insurance, and academic materials.

### Required Course Sequence for ADN Students

A total of 72 credit hours is required for the AAS degree which includes 38 credit hours of general education and support courses and 34 credit hours of nursing courses. The student will be required to complete the course sequence approved by the University and in place at the time of admission to the Associate Degree Nursing Program. ADN program policies on challenge examination, transfer credit, academic standards and progression, and criteria for taking the National Council Licensure Examination can be obtained from the Department of Nursing and Allied Health Sciences.

#### First Semester

|                                                                        |   |
|------------------------------------------------------------------------|---|
| NURA 100--Fundamentals of Nursing                                      | 6 |
| PSY 154--Introduction to Psychology                                    | 3 |
| MATH 135--Mathematics for Technical Students<br>(or higher level Math) | 3 |
| BIOL 231--Human Anatomy                                                | 3 |

|                                                |    |
|------------------------------------------------|----|
| SPCH 108--Fundamentals of Speech Communication | 3  |
|                                                | 18 |

#### Second Semester

|                                 |   |
|---------------------------------|---|
| NURA 101--Maternity Nursing     | 4 |
| NURA 102--Mental Health Nursing | 4 |

|                                       |    |
|---------------------------------------|----|
| BIOL 232--Human Physiology            | 3  |
| CHEM 101--Survey of General Chemistry | 4  |
| PSY 156--Life Span Psychology         | 3  |
|                                       | 18 |

**Third Semester**

|                                                                                       |    |
|---------------------------------------------------------------------------------------|----|
| NURA 203--Child Adult Nursing I                                                       | 8  |
| ENG 100--Writing I                                                                    | 3  |
| CIS 101--Computers for Learning                                                       | 3  |
| BIOL 217--Elementary Medical Microbiology; or<br>BIOL 317--Principles of Microbiology | 4  |
|                                                                                       | 18 |

**Fourth Semester**

|                                                                        |    |
|------------------------------------------------------------------------|----|
| NURA 204--Child Adult Nursing II                                       | 10 |
| NURA 210--Nursing Issues and Trends for the<br>Associate Degree Nurse* | 2  |
| ENG 200--Writing II                                                    | 3  |
| SOC 101--General Sociology                                             | 3  |
|                                                                        | 18 |

\*Paired with ENG 200--Writing II.

\*\*After entry to the ADN Program, all nursing courses (NURA) must be taken in the required sequence listed.

Information related to required tuition and fees may be obtained from Morehead State University or the National League for Nursing Accrediting Commission, 350 Hudson Street, New York, N.Y. 10014, (212)989-9393.

## Bachelor of Science in Nursing

(606)783-2296

234 Reed Hall

**Faculty**--A. Blair, M. Burton, C. Clevenger, D. Corely, D. Goldy, J. Gross, F. Kilburn, M. Lewis, B. Porter (Coordinator), S. Shires, B. Wilburn

### Competencies Required in the Program

Upon completion of the BSN program the graduate will be able to:

1. Synthesize principles from mathematics, natural sciences, behavioral sciences, humanities and nursing as a foundation for professional nursing practice.
2. Integrate concepts and theories of caring, lifespan, human needs, individual, health, environment, and professional nursing for management of nursing care which reflects the worth and dignity of individuals, families and groups in a dynamic multi-cultural society.
3. Practice as a generalist in professional nursing within the roles of care giver, advocate, collaborator, manager, and educator in a variety of health care settings.
4. Employ critical thinking in the practice of professional nursing.
5. Integrate historical, political, social, ethical, economic, technical and legal components of nursing into professional nursing practice.
6. Integrate concepts of communications, leadership, management, research and teaching/learning into professional nursing practice.

7. Assume accountability for continuing personal, professional and educational development to enhance one's practice and to meet the changing health care needs of society.

### Assessment Procedures

National League for Nursing Standardized Examinations in specific nursing areas

National Council Licensure Examination for Registered Nurses

BSN Program Surveys of graduates and employers

## Bachelor of Sciences in Nursing (Four-Year Program)

The Baccalaureate Nursing Program (BSN) offers a program of study which combines general education courses with professional nursing theory and clinical education. The program prepares the graduates for the role of the professional nurse and provides a foundation for graduate study. Graduates of the program are eligible to take the National Council Licensure Examination for registered nurses. The BSN program also has a Registered Nurse (RN) track where graduates of associate degree and diploma nursing programs may pursue the BSN degree.

### Admission Requirements and Procedures

The BSN program has a selective admission procedure. Enrollment in the program is limited. In the event there are more qualified applicants than available positions, students with the highest G.P.A. will be accepted.

### Application Procedure

1. Be unconditionally admitted to Morehead State University through the University's Office of Admissions.
2. Declare nursing as an area of concentration.
  - A. Meet with assigned nursing faculty advisor;
  - B. Enroll in required pre-nursing courses as outlined in the BSN curriculum sequence.
3. Submit a completed application packet to the Baccalaureate Nursing Program. The application packet includes:
  - A. Completed BSN application;
  - B. Copy of high school transcript(s);
  - C. GED validation if applicable;
  - D. Copy of transcripts from all universities/colleges attended;
  - E. University undergraduate catalog(s) if transfer credit is sought;
  - F. Course syllabi for all nursing courses completed if transfer credit is sought;
  - G. Official ACT scores;

- H. Verification of health and physical capabilities;
  - I. Validation of current certification in Basic Life Support Providers (American Heart Association).
4. Student selection process occurs during the spring semester preceding the Fall admission.
  5. Students transferring from other nursing programs must follow the same admission procedure and meet the same criteria for admission. The student who has completed nursing courses in another program may be eligible for advanced placement. For consideration of placement into a spring semester of the curriculum sequence, application materials must be submitted by September 1 of the preceding semester.
  6. Students are officially admitted to the BSN program in the Fall semester of the sophomore year of the curriculum sequence.
  7. In order to be considered for official admission to the generic BSN program, all materials except the health form and CPR certification must be submitted to the address below before March 1 preceding Fall admission to the program:  
 Department of Nursing and Allied Health Sciences  
 Morehead State University  
 Student Service Officer  
 Baccalaureate Nursing Program  
 UPO 715, Reed Hall 225  
 Morehead, Kentucky 40351-1689

Information related to required tuition and fees may be obtained from Morehead State University or the National League for Nursing Accrediting Commission, 350 Hudson Street, New York, N.Y. 10014, (212)989-9393.

## Admission Criteria

The Baccalaureate Nursing Program has a limited enrollment. Applicants to the BSN program are selected based upon the following criteria:

1. Completion of the 35 credit hours of the required pre-nursing courses as listed on the curriculum sequence;
  2. Minimum grade of a "C" in each of the required pre-nursing courses;
  3. A grade-point average of 2.5 or above (with no rounding) based on the required 35 credits;
  4. Minimum composite score of 19 on enhanced ACT;
  5. Current certification by the American Heart Association in Basic Life Support for Healthcare Providers (CPR);
  6. More than two failures of pre-nursing courses within three years of application to the program will result in ineligibility for admission. This includes failure of more than two courses or failure of the same course more than twice. Students with course failures prior to the three (3) year period will be considered for admission if the student has demonstrated satisfactory academic progress ("C" or above in required courses) since the course failures. Full time study for two (2) consecutive semesters will be required in order to evaluate academic status. At least two-thirds (2/3) of these credit hours must be in program required general education or support courses. This policy also applies to transfer students.
- Applicants who are currently enrolled but have not yet completed the required 18 semester hours of the second semester are eligible for conditional acceptance based on midterm grades. Final acceptance will be dependent on maintaining course grades and grade-point average as outlined in criteria.
- \*7. Meet the following health and physical capabilities requirements:
    - A. Physical capabilities:
      1. Vision capabilities:
        - a. Normal or corrected refraction within the ranges of 20/20 to 20/190;
        - b. Able to distinguish color shade changes
      2. Auditory capabilities:
 Possess normal or corrected hearing ability within 0 to 45 decibel range.
      3. Tactile capabilities:
 Possess in at least one hand the ability to perceive temperature changes and pulsations and to differentiate between various textures and structures.
      4. Language capabilities:
 Possess the ability to verbally communicate.
      5. Motor capabilities:
 Possess 4 functional limbs (normal or artificial) which allow the following actions:
        - a. Grasp securely with at least one hand;
        - b. Lift at least 20 pounds without assistance;
        - c. Stand for long periods of time;
        - d. Walk without assistance of canes, crutches, walkers and/or humans.
    - B. Mental Health Status:
 Possess the ability to adapt to the environment, function in everyday activities, and cope with stressors.
    - C. Freedom from transmittable disease as documented by:
      1. Negative PPD and/or statement from a health department or physician of

present status within immediate past 12 months

2. Immunization as recommended by the advisory committee on Immunization Practices of the U.S. Public Health Services and the Committee on Infectious Diseases of the American Academy of Pediatrics.

\*Documentation of meeting health and physical capabilities and CPR requirements is required for final official admission to the BSN Program.

## BSN-RN Track (Postlicensure) Admission Requirements and Procedures

### Application Procedure (RNs)

1. Be admitted to Morehead State University.
2. Declare nursing as the area of concentration and meet with assigned nursing faculty advisor;\*
3. Submit required materials listed below to the Baccalaureate Nursing Program by March 1 for admission into the fall semester or September 1 for admission into the spring semester:
  - A. Completed application form for BSN program;
  - B. Transcripts from all universities/colleges attended;
  - C. University undergraduate catalog(s) if transfer credit is sought;
  - D. Course syllabi for all nursing courses completed if transfer credit is sought;
  - E. Documentation of NLN Mobility Profile examination scores OR NURB 375 A-D;
  - F. Validation of current Kentucky nursing licensure;
  - G. Verification of health and physical capability;
  - H. Validation of current CPR certification in Basic Life Support for Healthcare Providers (AHA).
  - I. Verification of professional malpractice insurance.
4. Required materials must be submitted and acted upon prior to enrolling in the first clinical nursing course (i.e., NURB 254 and/or NURB 365).

Department of Nursing and Allied Health Sciences  
Morehead State University  
Student Service Officer  
Baccalaureate Nursing Program - RN  
(Postlicensure) Track  
UPO Box 715, Reed Hall 225  
Morehead, Kentucky 40351-1689

\*A Regional Coordinator for the BSN Program - RN Track is available at the Ashland Area and

Big Sandy (Prestonsburg) Extended Campus Centers.

### Admission Criteria (RNs)

Applicants for the BSN program-RN track component must:

1. Be admitted to Morehead State University.
2. Have an ACT Score on file.
3. Hold a current Kentucky License to practice as a registered nurse.
4. Be a graduate of an Associate Degree Nursing or Diploma program.
5. Hold a minimum grade of a "C" in each of the required general education, support and nursing courses.
6. Possess a current certification by the American Heart Association cardiopulmonary resuscitation (CPR) in Basic Life Support for Healthcare Providers.
7. Complete NLN Mobility Profile examinations for NURB 375 A-D: Transitional Courses in Clinical Nursing for the RN Track (Postlicensure) Student OR successfully complete NURB 375 A-D.
8. Possess professional malpractice insurance.
9. Meet the following health and physical capabilities requirements:
  - A. Physical capabilities:
    1. Vision capabilities:
      - a. Normal or corrected refraction within the ranges of 20/20 to 20/190;
      - b. Able to distinguish color shade changes.
    2. Auditory capabilities:
 Possess normal or corrected hearing ability within 0 to 45 decibel range.
    3. Tactile capabilities:
 Possess in at least one hand the ability to perceive temperature change and pulsations and to differentiate between various textures and structures.
    4. Language capabilities:
 Possess the ability to verbally communicate.
    5. Motor capabilities:
 Possess 4 functional limbs (normal or artificial) which allow the following actions:
      - a. Grasp securely with at least one hand;
      - b. Lift at least 20 pounds without assistance;
      - c. Stand for long periods of time;
      - d. Walk without assistance of canes, crutches, walkers and/or humans.

- B. Mental Health Status:  
Possess the ability to adapt to the environment, function in everyday activities, and cope with stressors.
- C. Freedom from transmittable disease as documented by:
  - 1. Negative PPD and/or statement from a health department or physician of present status within immediate past 12 months;
  - 2. Immunization as recommended by the Advisory Committee on Immunization Practices of the U.S. Public Health Services and the Committee on Infectious Diseases of the American Academy of Pediatrics.

Verification of health and physical capabilities is documented by the completion of the BSN Health Form by a licensed physician.

BSN Application Form and BSN Health Form are available in the Department of Nursing and Allied Health Sciences.

### **MSU/UK RN/BSN/MSN Primary Care Nurse Practitioner Cooperative Program Admission Requirements and Procedures**

#### **Application Procedure**

1. Be admitted to Morehead State University;
2. Be admitted to University of Kentucky Graduate Program in Nursing before the third semester of the program sequence;
3. Declare nursing as the area of concentration and meet with assigned nursing advisor;\*
4. Submit required materials listed below to the Baccalaureate Nursing Program by March 1 for admission into the fall semester or September 1 for admission into the spring semester.
  - A. Complete application form for BSN program;
  - B. Transcripts from all universities/colleges attended;
  - C. University undergraduate catalog(s) if transfer credit sought;
  - D. Course syllabi for all nursing courses completed if transfer credit is sought;
  - E. Documentation of NLN Mobility Profile examination scores OR NURB 375 A-D;
  - F. Validation of current Kentucky nursing licensure;
  - G. Verification of health and physical capability;
  - H. Validation of current certification in Basic Life Support for Health Care Providers;
  - I. Verification of professional malpractice insurance.

5. Submit the following for the University of Kentucky Graduate Program in Nursing:
  - A. Transcripts from all universities/colleges attended.
  - B. Graduate Record Examination scores. Scores older than 5 years will not be considered.
  - C. Three letters of references: One from a BSN faculty member and one from a recent employer.
6. Required materials must be submitted and acted upon prior to enrolling in the first clinical nursing course (i.e., NURB 254 and/or NURB 375) to:
  - Nursing and Allied Health Sciences
  - Student Service Officer
  - Baccalaureate Nursing Program
  - Morehead State University
  - UPO 715, Reed Hall 225
  - Morehead, KY 40351

\*A Regional Coordinator for the BSN Program - RN (Postlicensure) Track is available at the Ashland, Licking Valley and Big Sandy (Prestonsburg) Extended Campus Centers.

### **Admission Criteria MSU/UK RN/BSN/MSN Primary Care Nursing Practitioner Cooperative Program**

Applicants for the MSU/UK RN/BSN/MSN Nurse Practitioner Cooperative Program must:

1. Be admitted to Morehead State University.
2. Have an ACT score on file.
3. Hold a current Kentucky license to practice as a registered nurse.
4. Be a graduate of an Associate Degree Nursing or Diploma program.
5. Hold a minimum grade of a "C" in each of the required general education, support and nursing courses.
6. Possess a current certification by the American Heart Association in Basic Life Support for Health Care Providers.
7. Complete NLN Mobility Profile examinations for NURB 375 A--D: Transitional Courses in Clinical Nursing for the RN Track Student OR successfully complete NURB 375 A-D.
8. Possess professional malpractice insurance.
9. Meet the health and physical capabilities requirements of the BSN program.
10. Hold an undergraduate grade point average of 2.75 on a 4.0 grading scale.
11. Completion of at least 90 approved undergraduate credit hours.
12. Possess satisfactory Graduate Record Examination scores on the verbal, quantitative, and analytical portions.

13. Admission to the University of Kentucky Graduate School, prior to beginning graduate work.

### Conditions for Enrollment

1. Students may be assigned to clinical practicum areas other than those in the immediate Rowan County area, requiring traveling some distance from campus. Transportation to and from these settings is the responsibility of the student.
2. Clinical experiences and formal classes may be required during various hours of the day, evening and night.
3. Students have the responsibility for the cost incurred by enrollment in the nursing program. This cost includes clothing, equipment, malpractice insurance and academic materials.
4. Nursing courses for the RN (Postlicensure) student in the BSN Program are offered at various off-campus sites on a rotating basis as resources and demand allow, as well as on campus. It is the mutual responsibility of the student and his/her advisor to develop a plan of study, based on projected schedule of course offerings, that adheres to required course sequencing while expediting the student's progress in the program.

### Required Course Sequence for BSN Program

A total of 134 credit hours is required for the BSN degree which includes 68 credit hours of general education and support courses, 66 credit hours of nursing courses. BSN program policies on challenge examination, transfer credit, academic standards and progression, and criteria for taking State Board Licensure Examination can be obtained from the Department of Nursing and Allied Health Sciences.

The student will be required to complete the course sequence approved by the University and in place at the time of admission into the BSN program. The generic (prelicensure) sequence follows:

#### Freshman Year

##### First Semester

|                                                                              |    |
|------------------------------------------------------------------------------|----|
| ENG 100--Writing I                                                           | 3  |
| BIOL 231--Human Anatomy                                                      | 3  |
| MSU 101--Discovering University Life                                         | 1  |
| MATH 135--Math for Tech Students; or higher                                  | 3  |
| PSY 154--Intro. to Psychology                                                | 3  |
| CHEM 101--Survey of Chemistry I; and<br>CHEM 101L--Survey of Chemistry I Lab | 4  |
|                                                                              | 17 |

##### Second Semester

|                                                                                          |    |
|------------------------------------------------------------------------------------------|----|
| SOC 101--Intro. to Sociology                                                             | 3  |
| BIOL 232--Human Physiology                                                               | 3  |
| PSY 156--Life Span Development Psychology                                                | 3  |
| CHEM 201--Survey of Organic Chemistry; and<br>CHEM 201L--Survey of Organic Chemistry Lab | 4  |
| ENG 200--Writing II (Paired with SOC 101 or NURB 152)                                    | 3  |
| NURB 152--Basic Concepts & Theories                                                      | 2  |
|                                                                                          | 18 |

#### Sophomore Year

##### First Semester

|                                                |    |
|------------------------------------------------|----|
| SPCH 108--Fundamentals of Speech Communication | 3  |
| BIOL 217--Elementary Medical Microbiology      | 4  |
| NURB 246--Basic Nursing Concepts I             | 3  |
| NURB 247--Basic Nursing Skills                 | 2  |
| NURB 249--Pharmacology                         | 3  |
| NURB 254--Health Assessment                    | 3  |
|                                                | 18 |

##### Second Semester

|                                              |    |
|----------------------------------------------|----|
| BIOL 336--Pathophysiology                    | 4  |
| HS 201--Nutrition                            | 3  |
| NURB 256--Basic Nursing Concepts II          | 5  |
| NURB 310--Community Health Nursing           | 3  |
| NURB 312--Teaching & Learning in Health Care | 2  |
|                                              | 17 |

#### Junior Year

##### First Semester

|                                                   |    |
|---------------------------------------------------|----|
| NURB 350--Nursing Care of the Childbearing Family | 4  |
| NURB 351--Nursing Care of Children                | 4  |
| MATH 353--Statistics                              | 3  |
| **CIS 101--Computers for Learning                 | 3  |
| *Practical Living Elective                        | 3  |
|                                                   | 17 |

##### Second Semester

|                                     |    |
|-------------------------------------|----|
| NURB 361--Intro to Nursing Research | 3  |
| NURB 362--Adult Nursing I           | 7  |
| NURB 363--Mental Health Nursing     | 4  |
| *Humanities Elective                | 3  |
|                                     | 17 |

#### Senior Year

##### First Semester

|                                       |    |
|---------------------------------------|----|
| NURB 454--Adult Nursing II            | 10 |
| *Humanities Elective                  | 3  |
| *Social & Behavioral Science Elective | 3  |
|                                       | 16 |

##### Second Semester

|                                           |    |
|-------------------------------------------|----|
| NURB 461--Nursing Leadership & Management | 3  |
| NURB 473--Nursing Issues & Trends         | 3  |
| NURB 498--Nursing Senior Seminar          | 2  |
| NURB 499C--Advanced Nursing Practicum     | 3  |
| *Humanities Elective                      | 3  |
|                                           | 14 |

\*May be taken any semester in the program sequence.

**NOTE:** After entry into the BSN Program, all courses must be taken in the semester sequence listed. Exceptions to the curriculum sequence are listed with an \* beside the course. NURB 361 may be taken prior to the curriculum sequenced semester. A prerequisite to NURB 361 is MATH 353.

The curriculum requirements and course sequencing may be changed as part of the process of program evaluation. The responsibility of keeping abreast of changes in curriculum requirements and/or sequencing is shared by faculty and students.

### Required Curriculum Sequence for RN-BSN Students

*General education, support, and nursing courses required prior to official admission to the RN Track Component:*

|                                                  |   |
|--------------------------------------------------|---|
| ENG 100--Writing I                               | 3 |
| ENG 200--Writing II                              | 3 |
| MATH 135--Math for Technical Students; or higher | 3 |
| SPCH 108--Fundamentals of Speech Communication   | 3 |

|                                                                                |   |
|--------------------------------------------------------------------------------|---|
| BIOL 217--Elementary Medical Microbiology                                      | 4 |
| BIOL 231--Human Anatomy                                                        | 3 |
| BIOL 232--Human Physiology                                                     | 3 |
| PSY 154--Intro to Psychology                                                   | 3 |
| PSY 156--Life Span Developmental Psychology                                    | 3 |
| CHEM 101--Survey of Chemistry I; and<br>CHEM 101L--Survey of Chemistry I Lab   | 4 |
| CHEM 201--Survey of Chemistry II; and<br>CHEM 201L--Survey of Chemistry II Lab | 4 |
| SOC 101--General Sociology                                                     | 3 |
| CIS 101--Computers for Learning                                                | 3 |
| HS 201--Principles of Nutrition                                                | 3 |
| NLN Mobility Profile II Exams; or NURB 375 A-D                                 |   |

**NOTE:** NLN Mobility Profile Examinations for NURB 375 A-D must be taken prior to admission. In order to successfully complete the exams the student must obtain a minimal score at the 50th percentile. If the student obtains less than the required score, the respective course(s) (NURB 375 A-D or lower division nursing course) must be completed prior to admission to the BSN Program. NURB 249: Pharmacology may be challenged or taken prior to admission.

### Junior Year

#### First Semester

|                                                                                            |    |
|--------------------------------------------------------------------------------------------|----|
| *NURB 365--Concepts and Theories Basic to Professional<br>Nursing for the RN Track Student | 3  |
| **MATH 353--Statistics                                                                     | 3  |
| *NURB 249--Pharmacology                                                                    | 3  |
| NURB 254--Health Assessment                                                                | 3  |
| Humanities Elective                                                                        | 3  |
|                                                                                            | 15 |

#### Second Semester

|                                              |    |
|----------------------------------------------|----|
| NURB 310--Community Health Nursing           | 3  |
| NURB 311--Community Health Nursing Practicum | 1  |
| NURB 312--Teaching & Learning in Health Care | 2  |
| NURB 361--Intro to Nursing Research          | 3  |
| BIOL 336--Pathophysiology                    | 4  |
|                                              | 13 |

### Senior Year

#### Third Semester

|                                                                 |    |
|-----------------------------------------------------------------|----|
| NURB 457--Advanced Nursing Concepts for the<br>RN Track Student | 4  |
| Practical Living Elective                                       | 3  |
| Social & Behavioral Science Elective                            | 3  |
| Humanities Elective                                             | 3  |
|                                                                 | 13 |

#### Fourth Semester

|                                             |    |
|---------------------------------------------|----|
| NURB 461--Nursing Leadership and Management | 3  |
| NURB 473--Issues & Trends in Nursing        | 3  |
| NURB 498--Nursing Senior Seminar            | 2  |
| NURB 499C--Advanced Nursing Practicum       | 3  |
| Humanities Elective                         | 3  |
|                                             | 14 |

#### NOTES:

\*May be taken prior to official admission to the BSN Program.

\*\*After official admission to the BSN Program, these support courses may not be taken later than the listed semester since they are prerequisites or co-requisites to specific nursing courses.

\*\*\*Successful completion of the NLN Mobility Profile will validate NURB 375 A-D (10 hours of K credit will be granted). After official admission to the BSN

Program the student will receive validation for 24 hours of lower division nursing courses (total of 34 hours).

**Other exceptions** to the required curriculum sequence are social and behavioral sciences, practical living and humanities electives. After official admission to the BSN Program, NURB 316 and NURB 312 may be taken prior to the curriculum sequenced semester if the prerequisites have been satisfied. The student may enroll in NURB 312 only if a clinical nursing area is available for the student to supplement a student designed teaching plan.

### Required Curriculum Sequence for MSU/UK RN/BSN/MSN Primary Care Nurse Practitioner Students

*General education, support, and nursing courses required prior to official admission to MSU's RN Track Component:*

|                                                                                |    |
|--------------------------------------------------------------------------------|----|
| ENG 100--Writing I                                                             | 3  |
| ENG 200--Writing II                                                            | 3  |
| MATH 135--Math for Technical Students; or higher                               | 3  |
| SPCH 108--Fundamentals of Speech Communication                                 | 3  |
| BIOL 217--Elementary Medical Microbiology                                      | 4  |
| BIOL 231--Human Anatomy                                                        | 3  |
| BIOL 232--Human Physiology                                                     | 3  |
| PSY 154--Intro to Psychology                                                   | 3  |
| PSY 156--Life Span Developmental Psychology                                    | 3  |
| CHEM 101--Survey of Chemistry I; and<br>CHEM 101L--Survey of Chemistry I Lab   | 4  |
| CHEM 201--Survey of Chemistry II; and<br>CHEM 201L--Survey of Chemistry II Lab | 4  |
| SOC 101--General Sociology                                                     | 3  |
| CIS 101--Computers for Learning                                                | 3  |
| HS 201--Principles of Nutrition                                                | 3  |
| NLN Mobility Profile II Exams; or NURB 375 A-D                                 | 10 |

**NOTE:** NLN Mobility Profile Examinations for NURB 375 A-D must be taken prior to admission. In order to successfully complete the exams the student must obtain a minimal score at the 50th percentile. Each challenge exam may be taken only once. If the student obtains less than the required score, the respective course(s) (NURB 375 A-D or lower division nursing course) must be completed prior to admission to the BSN Program. NURB 249: Pharmacology may be challenged or taken prior to admission.

NURB 249: Pharmacology may be challenged or taken prior to admission.

### First Year

#### Fall Semester

(Take GRE during Fall Semester)

|                                          |    |
|------------------------------------------|----|
| NURB 254--Health Assessment              | 3  |
| Social and Behavioral Sciences Electives | 3  |
| NURB 249--Pharmacology                   | 3  |
| Humanities Elective                      | 3  |
| Practical Living Elective                | 3  |
|                                          | 15 |

#### Spring Semester

(Apply to UK Graduate School in Spring Semester)

|                                              |    |
|----------------------------------------------|----|
| NURB 312--Teaching & Learning in Health Care | 2  |
| NURB 461--Nursing Leadership & Management    | 3  |
| **MATH 353--Statistics                       | 3  |
| Humanities Elective                          | 3  |
| **BIOL 336--Pathophysiology                  | 4  |
|                                              | 15 |

## Second Year

### Fall Semester

|                                                              |    |
|--------------------------------------------------------------|----|
| NURB 457--Advanced Nursing Concepts for the RN Track Student | 4  |
| NUR 612--Nursing Research Methods                            | 3  |
| Graduate Statistics                                          | 3  |
| Humanities Elective                                          | 3  |
|                                                              | 13 |

### Spring Semester

|                                              |   |
|----------------------------------------------|---|
| NURB 311--Community Health Nursing Practicum | 1 |
| NUR 610--Concepts and Theories               | 3 |
| NUR 735--Family & Community Health Promotion | 3 |
|                                              | 7 |

### Summer

|                                                |   |
|------------------------------------------------|---|
| NUR 650--Advanced Physical & Health Assessment | 2 |
|------------------------------------------------|---|

## Third Year

### Fall Semester

|                                                |    |
|------------------------------------------------|----|
| NURB 498--Senior Nursing Seminar               | 2  |
| NURB 499C--Advanced Clinical Practicum         | 3  |
| NUR 520--Pathophysiology                       | 3  |
| NUR 650--Advanced Physical & Health Assessment | 2  |
|                                                | 10 |

(Completion of semester received BSN Degree from MSU)

### Spring Semester

|                                                                       |   |
|-----------------------------------------------------------------------|---|
| NUR 654--Common Health Promotion of Young, Middle, and Older Adults I | 3 |
| NUR 659--Pharmacology                                                 | 3 |
|                                                                       | 6 |

### Summer (Intercession)

|                                                       |   |
|-------------------------------------------------------|---|
| NUR 662--Clinical Nursing Practice in Expanded Role I | 4 |
|-------------------------------------------------------|---|

## Fourth Year

### Fall Semester

|                                                                       |   |
|-----------------------------------------------------------------------|---|
| NUR 655--Common Health Problems of Young, Middle, and Older Adults II | 3 |
| Health Problems of the Pediatric Client (FNP only)                    | 2 |
| NUR 672--Clinical Nursing Practice in Expanded Roles II               | 4 |

OR

|                             |   |
|-----------------------------|---|
| Cognates (ANP and GNP only) | 3 |
|                             | 9 |

### Spring Semester

|                                                          |    |
|----------------------------------------------------------|----|
| NUR 613--Research Applications in Nursing                | 3  |
| NUR 682--Clinical Nursing Practice in Expanded Roles III | 8  |
|                                                          | 11 |

### NOTES:

**Pending final approval from the University of Kentucky**

**NURB are MSU's nursing courses.**

**NUR are UK's nursing courses.**

\* May be taken prior to official admission to the BSN Program.

\*\* After official admission to the BSN Program, these support courses may not be taken later than the listed semester since they are prerequisites or co-requisites to specific nursing courses.

\*\*\* Successful completion of the NLN Mobility Profile II will validate official NURB 374 A-D (10 hours of K credit will be granted). After official admission to the BSN Program the student will receive validation for 24 hours of lower division nursing courses (total of 34 hours).

**Other exceptions** to the required curriculum sequence are social and behavioral sciences, practical

living and humanities electives. After official admission to the BSN Program, NURB 361 and 312 may be taken prior to the curriculum sequenced semester if the prerequisites have been satisfied. The student may enroll in NURB 312 only if a clinical nursing area is available for the student to supplement a student designed teaching plan.

## Radiologic Technology

(606) 783-2646 or 783-5175

408 Reed Hall

**Faculty**--M. Cooper, J. Darling (Coordinator), B. Dehner, C. Gibbs, W. Goodpaster

### Competencies Required in the Program

*Students will:*

1. *Synthesize principles from mathematics, natural sciences, behavioral sciences, humanities, and diagnostic radiography as a foundation for radiologic technology practice.*
2. *Utilize effective communication methods (verbal and nonverbal) with the patient, patient's family, colleagues, and other health care professionals.*
3. *Integrate historical, legal and ethical components of diagnostic radiography into the practice of the radiologic technologist.*
4. *Practice as an entry level radiographer including areas of radiation protection and safety, basic patient care for individuals in all stages of life span, and the operation of radiographic imaging and processing equipment.*
5. *Apply scientific principles of human structure, function and pathology to patient positioning and imaging techniques.*
6. *Employ critical thinking in the technical performance of medical imaging procedures.*
7. *Assume responsibility for continuing personal and professional educational development to enhance ones practice.*

### Assessment Procedures

*Survey of graduates*

*Survey of employers*

*Monitoring of licensure examinations*

*Evaluation by advisory committee*

## Associate of Applied Science (Two-Year Program)

The Joint Review Committee on Education in Radiologic Technology accredited associate degree Radiologic Technology Program (Rad Tech) is designed to prepare individuals for entry into the health care profession of radiologic technology.

Students accepted into the Rad Tech Program must spend at least 24 months enrolled in the program.

Students spend 50% of their time fulfilling clinical education requirements and gaining "hands on" clinical experience in hospitals affiliated with the program. The Rad Tech Program is currently affiliated with the following twelve hospitals: ARH Regional Medical Center in Hazard, Ky.; Frankfort Regional Medical Center of Frankfort in Frankfort, Ky.; Lake Cumberland Regional Medical Center in Somerset, Ky.; Meadowview Regional Medical Center of Maysville in Maysville, Ky.; Fleming County Hospital in Flemingsburg, Ky.; Highlands Regional Medical Center in Prestonsburg, Ky.; Mary Chiles Hospital in Mount Sterling, Ky.; Methodist Hospital of Kentucky in Pikeville, Ky.; Morgan County Appalachian Regional Hospital in West Liberty, Ky.; Pattie A. Clay Memorial Hospital in Richmond, Ky.; and Saint Claire Medical Center in Morehead, Ky.

Qualified graduates are eligible to apply for the American Registry of Radiologic Technologists' national certification examination.

### Admission Requirements and Procedures for Radiologic Technology Program

All high school graduates and individuals with a GED certificate may apply for admission to the Associate Degree Radiologic Technology Program. The Radiologic Technology Program has a selective admission policy that is separate from, and in addition to, the University's admission procedure. Admission to the University does not guarantee admission to the Radiologic Technology Program. Enrollment in the Radiologic Technology Program will not exceed 40 students per year. The application procedure and admission criteria for the Radiologic Technology Program are as follows:

#### Application Procedure

1. Apply to Morehead State University through the University's Office of Admissions.
2. Submit a completed application packet to the Associate Degree Radiologic Technology Program by March 1. The application packet includes:
  - A. Completed Radiologic Technology Application Form.
  - B. Copy of high school transcript(s), including the following:
    - (1) date of completion,
    - (2) cumulative grade point average (GPA) based on a 4.0 scale,
    - (3) standing in class;
  - C. GED validation if applicable, indicating the following:
    - (1) date of completion,
    - (2) total score and score in each area;
  - D. Copy of transcripts from all universities/colleges attended;
  - E. Official ACT or equivalent i.e. CPP or SAT.

Applicants may contact MSU Testing and Evaluation Center, Room 501 Ginger Hall or at (606)783-2526 for information about the ACT.

3. Applicants reapplying to the Associate Degree Radiologic Technology Program must submit a **new application form** and updated application materials.
- \*4. Verification of health and physical capabilities.
- \*5. Documentation of at least four (4) hours of observation in a JCAHO accredited health care agency's radiology department.  
\*Sections 4 and 5 are not to be completed until applicant has met the Radiologic Technology academic portion of the admission procedure and received notification.
6. In order to be considered for official admission to the Associate Degree Radiologic Technology Program, all materials listed in 1 through 3 above must be submitted to the address below before March 1 preceding Fall admission to the program:  
Department of Nursing and Allied Health Sciences  
Student Service Officer  
Associate Degree Radiologic Technology Program  
Morehead State University  
UPO 715, Reed Hall 225  
Morehead, KY 40351-1689

#### Admission Criteria:

Applicants to the Associate Degree Radiologic Technology Program are selected based on the following admission criteria: **(NOTE: Applicants must meet criteria I or II. After receiving a letter of conditional acceptance to the program, applicant must meet criteria III and IV before final admission is granted.)**

- I. High School/GED Entry:
  - A. Minimum composite score of 19 on enhanced ACT; and
  - B. A "B" (3.0 on 4.0 scale) average in high school or GED validation, if applicable. A standard score of 50 or above required.
- II. College Entry:
  - A. Minimum composite score of 19 on enhanced ACT; and
  - B. A GPA of 2.5 on a scale of 4.0 in required Radiologic Technology Program's general education and support courses if completed before the admission period. A minimum of 8 semester hours (three courses) of college credit in general education and support courses required for the program must be earned in order for the college GPA to be considered. At least three (3) of these

credit hours must be earned in math or natural science courses listed. The overall college GPA must be 2.0 or above.

- C. Students must have at least a "C" in all support and general education courses that are required by the Radiologic Technology Program, even if these courses are not used to determine the GPA on the 8 hours state previously. **NOTE:** Criteria III and IV are to be completed only following receipt of a letter of conditional acceptance by the program.

III. Rad Tech Observation Requirement: Complete at least a four (4) hour observation period in the Radiology Department of a health care agency accredited by the Joint Commission on Accreditation of Health Care Organizations (JCAHO).

IV. Health and Physical Capability Requirements (Also required for retention--At the discretion of faculty, a mental and physical re-evaluation may be asked for at any point in the program):

- A. Physical Capabilities:
- (1) Vision capabilities:
    - (a) Normal or corrected refraction within the ranges of 20/20 to 20/190;
    - (b) Able to distinguish color shade changes.
  - (2) Auditory capabilities: Possess normal or corrected hearing ability within 0 to 45 decibel range.
  - (3) Tactile capabilities: Possess in at least one hand the ability to perceive temperature change and pulsations and to differentiate between various textures and structures.
  - (4) Language capabilities: Possess the ability to verbally communicate.
  - (5) Motor capabilities: Possess 4 functional limbs (normal or artificial) which allow the following actions:
    - (a) Grasp securely with at least one hand;
    - (b) Stand for long periods of time;
    - (c) Walk unassisted.
- B. Health Requirements:
- (1) Mental Health--Possess the ability to adapt to the environment, function in everyday activities, and cope with stressors.
  - (2) Freedom from transmittable disease as documented by:
    - (a) Negative PPD and/or statement from a health department or physician of

present status within the immediate past 12 months; and

(b) Immunization as recommended by the advisory committee on Immunization Practices of the U. S. Infectious Diseases of the American Academy of pediatrics.

**NOTE:** Verification of health and physical capabilities is documented by the completion of the Department of Nursing and Allied Health Sciences Applicant Health Form by a licensed physician(s) upon completion of a thorough physical examination.

**NOTE:** Admission procedures are reviewed on an annual basis. It is the applicant's responsibility to verify prior to the application deadline that the procedures/criteria have not been revised.

## Fees and Expenses

Fees and expenses specific to the Radiologic Technology Program are in addition to those required by the University. These are subject to change without prior notification. The following fees to be paid by the student will be collected by the program:

1st Semester--\$10.00 Radiologic film markers fee; \$2.00 dosimeter set-up fee; \$10.00 dosimeter service fee; \$15.00 liability insurance fee

2nd Semester--\$10.00 dosimeter service fee

3rd Semester--\$10.00 dosimeter service fee; \$15.00 liability insurance fee

4th Semester--\$10.00 dosimeter service fee; class picture fee; and \$2.00 radiation termination report.

Other expenses students are responsible for: the purchase of white uniform; white hose (if applicable), white clinical shoes, white lab coat, program patches for each uniform and an identification name pin (the latter is available from the University Store); and all housing and transportation expenses incurred during clinical internship assignments. Also, the national certification examination, given by the American Registry of Radiologic Technologists following graduation from the RT program, requires an application fee, and any student dosimeters lost or damaged require a \$2.00 replacement fee. Optional fees include the purchase of a school pin upon graduation.

## Program Requirements

All RAD courses and BIOL 231 must be taken in sequence as listed. Rad Tech Program policies on pregnancy and academic standards and progression can be obtained from the program coordinator.

### Summer II Session

|                                                |   |
|------------------------------------------------|---|
| ENG 100--Writing I                             | 3 |
| SPCH 108--Fundamentals of Speech Communication | 3 |
|                                                | 6 |

### First Semester

|                                                                |   |
|----------------------------------------------------------------|---|
| RAD 106--Patient Care Procedures                               | 2 |
| RAD 110--Radiographic Anatomy and Positioning I                | 4 |
| RAD 124--Imaging, Exposure, and Radiologic Technology Practice | 4 |
| MATH 135--Mathematics for Technical Students                   | 3 |

|                                                                 |    |
|-----------------------------------------------------------------|----|
| BIOL 231--Human Anatomy .....                                   | 3  |
| MSU 101--Discovering University Life .....                      | 1  |
|                                                                 | 17 |
| <b>Second Semester</b>                                          |    |
| RAD 130--Clinical Internship I .....                            | 10 |
| RAD 132--Concepts in Radiologic Technology .....                | 2  |
|                                                                 | 12 |
| <b>Second Summer Session</b>                                    |    |
| RAD 210--Radiographic Anatomy and Positioning II .....          | 3  |
| CIS 101--Computers for Learning .....                           | 3  |
|                                                                 | 6  |
| <b>Third Summer Session</b>                                     |    |
| ENG 200--Writing II .....                                       | 3  |
| PSY 154--Introduction to Psychology (Paired with ENG 200) ..... | 3  |
|                                                                 | 6  |
| <b>Third Semester</b>                                           |    |
| RAD 230--Clinical Internship II .....                           | 10 |
| RAD 232--Imaging Sectional Anatomy .....                        | 2  |
|                                                                 | 12 |
| <b>Four Semester</b>                                            |    |
| RAD 305--Advanced Diagnostic Imaging Practices .....            | 3  |
| RAD 215--Radiation Biology and Protection .....                 | 3  |
| RAD 311--Radiologic Anatomy and Positioning III .....           | 4  |
| RAD 315--Radiation Physics and Electronics .....                | 2  |
| RAD 322--Radiologic Pathology .....                             | 2  |
| Humanities elective .....                                       | 3  |
|                                                                 | 17 |
| <b>Fourth Summer Session</b>                                    |    |
| RAD 330--Clinical Internship III .....                          | 4  |
| <b>Fifth Summer Session</b>                                     |    |
| RAD 340--Clinical Internship IV .....                           | 3  |
| RAD 341--Seminar of Radiologic Technology .....                 | 1  |
|                                                                 | 4  |
|                                                                 | 84 |

## Department of Physical Sciences

C. Jack Whidden, Chair  
(606) 783-2917  
c.whidde@morehead-st.edu  
123 Lappin Hall

## Chemistry

**Faculty**--Z. Barnes, H. Cain, H. Hedgecock, R. Hunt

### Competencies Required in the Program

*The student will:*

1. *Develop enough learning techniques to adapt to new vocational and educational situations, i.e., be able to educate themselves in new applied areas and keep up with progress in the field.*
2. *Develop enough self confidence, personal independence and understanding of scientific method to carry out a technical project on one's own with only consultant-style help.*

3. *Read technical literature with good comprehension.*
4. *Write technical reports on technical material in a clear and logical way.*
5. *Present oral reports on technical material in a clear and logical way.*
6. *Be able to retrieve any needed information from the scientific literature.*
7. *Analyze laboratory data for its correctness and locate probable sources of error, including an understanding of standard statistical tests and the concepts of error and uncertainty, and an understanding of the advantages and limitations of current instrumental and other laboratory techniques.*
8. *Be able to use the basic principles of chemistry as presented in the first year class in a wide variety of contexts, especially the relation of microscopic physical picture to bulk chemical behavior. Be able to relate scientific principles to observed behavior.*
9. *Comprehend the major systems of nomenclature used in chemistry and know enough about the basic functional groups of inorganic and organic chemistry to have a primitive vocabulary of basic types of chemical reactions and to be able to use this to make rational chemical predictions.*

### Assessment Procedures

*Performance of graduates on entrance examinations*

*Performance of graduates in professional schools*

*Surveys of graduates*

*Surveys of employers*

The Chemistry program attempts (1) to educate students both in chemical theory and in laboratory techniques to the degree required for professional chemists to support other career objectives; (2) to prepare students to enter graduate school; (3) to prepare students for medical school; or (4) to offer supportive courses needed by students in other disciplines.

## Bachelor of Science

### Area of Concentration\*

Students who plan to become professional chemists or attend graduate school should complete the following courses:

|                                                   |   |
|---------------------------------------------------|---|
| CHEM 111--Principles of Chemistry I .....         | 4 |
| CHEM 112--Principles of Chemistry II .....        | 4 |
| BIOL 171--Principles of Biology .....             | 4 |
| MATH 175--Analytic Geometry and Calculus I .....  | 4 |
| PHYS 231--Engineering Physics I .....             | 4 |
| PHYS 231A--Engineering Physics I Lab .....        | 1 |
| PHYS 232--Engineering Physics II .....            | 4 |
| PHYS 232A--Engineering Physics II Lab .....       | 1 |
| MATH 275--Analytic Geometry and Calculus II ..... | 4 |

|                                                     |       |
|-----------------------------------------------------|-------|
| One of the following . . . . .                      | 3-4   |
| Math 276--Analytic Geometry and Calculus III        |       |
| MATH 353--Statistics                                |       |
| MATH 363--Differential Equations                    |       |
| CHEM 326--Organic Chemistry I . . . . .             | 4     |
| CHEM 327--Organic Chemistry II . . . . .            | 4     |
| CHEM 340--Chemical Information . . . . .            | 2     |
| CHEM 351--Inorganic Chemistry I . . . . .           | 2     |
| CHEM 360--Analytical Chemistry I . . . . .          | 4     |
| CHEM 441--Physical Chemistry I . . . . .            | 3     |
| CHEM 442--Physical Chemistry II . . . . .           | 5     |
| CHEM 451--Advanced Inorganic Chemistry II . . . . . | 3     |
| CHEM 460--Analytical Chemistry II . . . . .         | 4     |
|                                                     | 64-65 |

For students who plan to enter an industrial position directly on graduation, co-operative study is recommended. This curriculum is designed to meet the standards of the American Chemical Society when completed in conjunction with advice from the chemistry advisor.

### Major\*

Students who plan to become scientists or science-related professionals requiring a strong background in chemistry *plus* another discipline should complete the course sequence that follows. Requirements for the teaching are listed under "Physical Science Teaching" are the same.

|                                                                                    |    |
|------------------------------------------------------------------------------------|----|
| CHEM 111--Principles of Chemistry I . . . . .                                      | 4  |
| CHEM 112--Principles of Chemistry II . . . . .                                     | 4  |
| CHEM 326--Organic Chemistry I . . . . .                                            | 4  |
| CHEM 360--Analytical Chemistry I . . . . .                                         | 4  |
| CHEM 351--Inorganic Chemistry . . . . .                                            | 2  |
| CHEM 441--Physical Chemistry I . . . . .                                           | 3  |
| CHEM--Electives numbered 302 or higher and approved by chemistry advisor . . . . . | 11 |
|                                                                                    | 32 |

### Supplemental Requirements

|                                                                                                                     |       |
|---------------------------------------------------------------------------------------------------------------------|-------|
| BIOL 105--Introduction to Biological Science or Higher; (BIOL 171, Principles of Biology, is recommended) . . . . . | 3-4   |
| MATH 175--Analytic Geometry and Calculus I . . . . .                                                                | 4     |
| PHYS 201--Elementary Physics I and PHYS 201A--Lab (or equivalent) . . . . .                                         | 4     |
| PHYS 202--Elementary Physics II and PHYS 202A--Lab (or equivalent) . . . . .                                        | 4     |
|                                                                                                                     | 15-16 |

### Minor\*

|                                                                                    |    |
|------------------------------------------------------------------------------------|----|
| CHEM 111--Principles of Chemistry I . . . . .                                      | 4  |
| CHEM 112--Principles of Chemistry II . . . . .                                     | 4  |
| CHEM 326--Organic Chemistry I . . . . .                                            | 4  |
| CHEM 360--Analytical Chemistry I . . . . .                                         | 4  |
| CHEM--Electives numbered 302 or higher and approved by chemistry advisor . . . . . | 5  |
|                                                                                    | 21 |

\*At least 50% of the required chemistry coursework in the area of concentration or the major in chemistry must be taken in residency. At least 10 hours of chemistry above CHEM 301 must be taken in residency to complete the chemistry minor.

## Geology

Faculty--M. Chapman, C. Mason, S. Reid

### Competencies Required in the Program

Students will be able to:

1. Identify earth materials (minerals, rocks, fossils, sediments, soils, etc.)
2. Map and correlate bodies of rock, sediment, and soil using surface and subsurface data.
3. Understand the physical processes that shape earth's surface and interior.
4. Apply knowledge of modern geologic processes to interpret the geologic record.
5. Understand methods used to explore for and develop mineral/petroleum/water resources.
6. Assess the suitability of sites for the construction of buildings, roads, dams, landfills, septic systems, waste lagoons, etc.
7. Understand methods used to monitor, reclaim, and remediate sites impacted by mining, improper waste disposal, leaking underground storage tanks, etc.
8. Recognize existing or potential geologic hazards.

### Assessment Procedures

Performance of graduates on discipline-specific exit exam(s)

Survey of alumni regarding employment, acceptance to graduate school, strengths of MSU's geology program, and weaknesses of the program.

Survey of employers or graduate advisors

## Bachelor of Science

### Area of Concentration (Non-Teaching)

The Area of Concentration is intended for students who desire rigorous, broad-based preparation in most of the subdisciplines within geology. This program is strongly recommended for students who wish to attend graduate school.

|                                                       |   |
|-------------------------------------------------------|---|
| GEOS 108--Physical Geology . . . . .                  | 4 |
| GEOS 201--Historical Geology . . . . .                | 3 |
| GEOS 262--Mineralogy . . . . .                        | 4 |
| GEOS 276--Geologic Methods . . . . .                  | 3 |
| GEOS 300--Petrology . . . . .                         | 4 |
| GEOS 315--Stratigraphy and Sedimentation . . . . .    | 4 |
| GEOS 325--Structural Geology . . . . .                | 4 |
| GEOS 350--Geomorphology . . . . .                     | 3 |
| GEOS 376--Environmental Geology . . . . .             | 3 |
| GEOS 379--Invertebrate Paleontology . . . . .         | 4 |
| GEOS 420--Optical Mineralogy . . . . .                | 3 |
| GEOS 425--Hydrogeology . . . . .                      | 3 |
| GEOS 430--Low-temperature Geochemistry . . . . .      | 3 |
| CHEM 111--Principles of Chemistry I . . . . .         | 4 |
| CHEM 112--Principles of Chemistry II . . . . .        | 4 |
| MATH 175--Analytic Geometry and Calculus I . . . . .  | 4 |
| MATH 275--Analytic Geometry and Calculus II . . . . . | 4 |

|                                                                |       |
|----------------------------------------------------------------|-------|
| BIOL 155--Population, Resources, and Environment . . . . .     | 3     |
| and                                                            |       |
| <b>Physics Sequence I</b>                                      |       |
| PHYS 201--Elementary Physics I . . . . .                       | 3     |
| PHYS 201A--Elementary Physics I Lab . . . . .                  | 1     |
| PHYS 202--Elementary Physics II . . . . .                      | 3     |
| PHYS 202A--Elementary Physics II Lab . . . . .                 | 1     |
| or                                                             |       |
| <b>Physics Sequence II</b>                                     |       |
| PHYS 231--Engineering Physics I . . . . .                      | 4     |
| PHYS 231A--Engineering Physics I Lab . . . . .                 | 1     |
| PHYS 232--Engineering Physics II . . . . .                     | 4     |
| PHYS 232A--Engineering Physics II Lab . . . . .                | 1     |
| *Attendance at an approved summer geology field camp . . . . . | 6     |
|                                                                | 78-80 |

\*Must be taken off-campus at an accredited university.

## Major (Non-Teaching)\*\*

The geology major provides students with the option of pursuing a minor or double major. Students will be qualified for entry level geology positions. However, with careful planning and advising, the program can be tailored to prepare students for graduate study in specialized subdisciplines such as geophysics, geochemistry, mathematical geology, and hydrogeology. Students must take:

|                                                               |    |
|---------------------------------------------------------------|----|
| GEOS 108--Physical Geology . . . . .                          | 4  |
| GEOS 201--Historical Geology . . . . .                        | 3  |
| GEOS 262--Mineralogy . . . . .                                | 4  |
| GEOS 276--Geologic Methods . . . . .                          | 3  |
| GEOS 300--Petrology . . . . .                                 | 4  |
| GEOS 315--Stratigraphy and Sedimentation . . . . .            | 4  |
| GEOS 325--Structural Geology . . . . .                        | 4  |
| GEOS 350--Geomorphology . . . . .                             | 3  |
| GEOS --Upper division electives approved by advisor . . . . . | 6  |
|                                                               | 35 |

## Supplemental Requirements\*\*

|                                                 |       |
|-------------------------------------------------|-------|
| CHEM 111--Principles of Chemistry I . . . . .   | 4     |
| CHEM 112--Principles of Chemistry II . . . . .  | 4     |
| PHYS 201--Elementary Physics I . . . . .        | 3     |
| PHYS 201A--Elementary Physics I Lab . . . . .   | 1     |
| PHYS 202--Elementary Physics II . . . . .       | 3     |
| PHYS 202A--Elementary Physics II Lab . . . . .  | 1     |
| MATH--electives from the following: . . . . .   | 6-8   |
| MATH 141--Plane Trigonometry (3)                |       |
| MATH 152--College Algebra (3)                   |       |
| MATH 174--Pre-Calculus Mathematics (3)          |       |
| MATH 175--Analytic Geometry and Calculus I (4)  |       |
| MATH 275--Analytic Geometry and Calculus II (4) |       |
|                                                 | 22-24 |

\*\*Students who intend to use the geology major as preparation for graduate school are strongly encouraged to take GEOS 420, MATH 175, MATH 275, and summer geology field camp. Students lacking these courses generally are considered deficient by graduate schools.

## Minor (Non-Teaching)

|                                               |    |
|-----------------------------------------------|----|
| GEOS 108--Physical Geology . . . . .          | 4  |
| GEOS 201--Historical Geology . . . . .        | 3  |
| GEOS--electives approved by advisor . . . . . | 14 |
|                                               | 21 |

## Integrated Science

**Faculty**--R. Boram, R. Fiel, B. Malphrus, J. Whitworth

### Minor (Non-Teaching)\*

|                                                                            |    |
|----------------------------------------------------------------------------|----|
| SCI 103--Introduction to Physical Sciences<br>(or equivalent) . . . . .    | 3  |
| BIOL 105--Introduction to Biological Sciences<br>(or equivalent) . . . . . | 3  |
| Electives approved by the advisor . . . . .                                | 18 |
|                                                                            | 24 |

\*The minor in integrated science, a non-teaching minor, should be evenly distributed between the biological sciences and the physical sciences.

## Physics

**Faculty**--D. Cutts, B. Raichle, C. Whidden (Chair), C. Yess

### Competencies Required in the Program

The student will:

1. Have an understanding of the core concepts of physics.
2. Develop analytical skills and learning techniques to enable learning new areas of physics.
3. Read and understand technical literature and present oral reports.
4. Be able to function in a laboratory setting to both analyze data and write reports.
5. Be able to apply basic principles of physics in a problem solving situation such as carrying out a technical project.

### Assessment Procedures

Performance of graduates on entrance examinations  
Performance of graduate in professional schools  
Survey of graduates  
Survey of employers

## Bachelor of Science

The physics program: (1) provides a complete undergraduate program which has enough flexibility to permit its graduates to pursue careers as professional physicists in industry; (2) enables students to pursue graduate degrees in pure and applied physics; or, (3) provides supportive courses for students in other programs such as applied sciences, biology, chemistry, geology, mathematics, and the pre-professional programs.

### Major\*

Requirements for teaching are listed under

"Physical Science Teaching."

|                                                 |   |
|-------------------------------------------------|---|
| PHYS 231--Engineering Physics I . . . . .       | 4 |
| PHYS 231A--Engineering Physics I Lab . . . . .  | 1 |
| PHYS 232--Engineering Physics II . . . . .      | 4 |
| PHYS 232A--Engineering Physics II Lab . . . . . | 1 |
| PHYS 353--Concepts of Modern Physics . . . . .  | 4 |

|                                                                                                                                         |    |
|-----------------------------------------------------------------------------------------------------------------------------------------|----|
| **,**PHYS--electives approved by advisor                                                                                                | 16 |
|                                                                                                                                         | 30 |
| **Students planning to do graduate work in physics should, as a minimum preparation, take PHYS 332, 340, 391, 411, 481, and 493.        |    |
| ***Students desiring an emphasis in applied physics should consider choosing from PHYS 211, 221, 332, 340, 361, 381, 391, 411, and 481. |    |

## Supplemental Requirements

|                                                 |    |
|-------------------------------------------------|----|
| CHEM 111--Principles of Chemistry I             | 4  |
| CHEM 112--Principles of Chemistry II            | 4  |
| MATH 175--Calculus I                            | 4  |
| MATH 275--Calculus II                           | 4  |
| MATH 276--Calculus III                          | 4  |
| MATH 300 or higher elective approved by advisor | 3  |
|                                                 | 23 |

## Minor

|                                              |    |
|----------------------------------------------|----|
| PHYS 231--Engineering Physics I              | 4  |
| PHYS 231A--Engineering Physics I Laboratory  | 1  |
| PHYS 232--Engineering Physics II             | 4  |
| PHYS 232A--Engineering Physics II Laboratory | 1  |
| and                                          |    |
| PHYS 350--Nuclear Science                    | 4  |
| PHYS--electives, approved by advisor         | 7  |
|                                              | 21 |

\*At least 50% of the course work in the major or minor in physics must be taken in residency.

## Pre-Engineering

**Faculty**--D. Cutts, B. Raichle, C. Whidden (Chair), C. Yess

### Two-Two Program (Transfer)

The student spends two years of study in pre-engineering at Morehead State University and then transfers to a college of engineering to complete a Bachelor of Science degree in an engineering field.

### Requirements

|                                                |    |
|------------------------------------------------|----|
| MATH 175--Calculus I                           | 4  |
| MATH 275--Calculus II                          | 4  |
| MATH 276--Calculus III                         | 4  |
| MATH 363--Differential Equations               | 3  |
| CHEM 111--Principles of Chemistry I            | 4  |
| CHEM 112--Principles of Chemistry II           | 4  |
| ENG 100--Writing I                             | 3  |
| ENG 200--Writing II                            | 3  |
| PHYS 231--Engineering Physics I                | 4  |
| PHYS 231A--Engineering Physics I Lab           | 1  |
| PHYS 232--Engineering Physics II               | 4  |
| PHYS 232A--Engineering Physics II Lab          | 1  |
| SPCH 108--Fundamentals of Speech Communication | 3  |
| Elect two courses from the following:          |    |
| MATH 260--FORTRAN                              | 3  |
| PHYS 221--Statics                              | 3  |
| PHYS 411--Thermodynamics                       | 3  |
|                                                | 48 |
| General Education Courses                      | 16 |

\*All engineering schools require specific general education courses in the social sciences and humanities. A list of MSU courses which meet UK University Studies requirements is available from the pre-engineering

advisor. Students transferring to other engineering schools should contact the advisor before selecting specific courses.

### Three-Two Program (Dual Degree)

The student completes three years (96 hrs.) which include the courses listed in the Two-Two program of study and the Morehead State University bachelor degree requirements before transferring to an engineering college to complete the final two years of specialty. Upon completing work at both schools, the student receives dual degrees: a B.S. degree from Morehead State University and a Bachelor of Science degree in engineering from the college of engineering. A student must complete an MSU major and minor, and the MSU General Education requirements. A student choosing the physics or mathematics or chemistry option has the requirement of at least four additional courses in the chosen option. Consult the advisor for details. Because colleges of engineering require a substantial background in physics, mathematics, and chemistry, students in the three-two program normally major in one of these areas. Students wishing to major in some other area should work closely with the pre-engineering advisor and an advisor in the selected major to ensure that requirements for both degrees are met.

Many employers of engineers are interested in Dual-Degree graduates because of their stronger science and mathematics problem-solving skills, their better communication skills, and their broader liberal arts training. Dual degree holders are better prepared to solve unusual engineering problems and to deal with the ethical and social impact of engineering activities.

### Pre-Optometry

**Faculty**--D. Cutts

The Pre-Optometry program is a three year preparatory program designed to meet the entrance requirements of optometry schools. However, optometry school applicants with a four year bachelor's degree are generally given preferential consideration. **Students may complete the bachelor's degree in any area, so long as they include all courses required for admission to the optometry school to which they apply.** Optometry school is a four year program. Before seeking admission to an optometry school, students must take the Optometry Admission Test (OAT). The Commonwealth of Kentucky will pay a portion of the fees for Kentucky residents enrolled at the Southern College of Optometry (Memphis), the University of Alabama School of Optometry, and the Indiana University School of Optometry.

### Core Courses

|                     |   |
|---------------------|---|
| ENG 100--Writing I  | 3 |
| ENG 200--Writing II | 3 |

|                                             |    |
|---------------------------------------------|----|
| CHEM 111--Principles of Chemistry I         | 4  |
| CHEM 112--Principles of Chemistry II        | 4  |
| CHEM 326--Organic Chemistry I               | 4  |
| CHEM 327--Organic Chemistry II              | 4  |
| BIOL 171--Principles of Biology             | 4  |
| BIOL 210--General Zoology                   | 4  |
| BIOL 317--Principles of Microbiology        | 4  |
| BIOL 337--Comparative Anatomy               | 3  |
| BIOL 425--Animal Physiology                 | 3  |
| MATH 175--Calculus I                        | 4  |
| MATH 353--Statistics                        | 3  |
| PHYS 201--Elementary Physics I              | 3  |
| PHYS 201A--Elementary Physics I Laboratory  | 1  |
| PHYS 202--Elementary Physics II             | 3  |
| PHYS 202A--Elementary Physics II Laboratory | 1  |
| PSY elective                                | 3  |
| Social Science electives                    | 6  |
|                                             | 64 |

Acceptance into optometry school depends largely upon academic performance. Therefore the student considering this program should have a strong high school background in science and mathematics.

The core courses represent common requirements among schools of optometry. Specific schools have additional requirements.

The students receiving a bachelor's degree from Morehead State University must complete the requirements for graduation found in the Undergraduate Catalog. **Students should work closely with the pre-optometry advisor and an advisor in their selected major to ensure that requirements for both programs are met.**

## Physical Science Teaching (Grades 8-12)

**Advisors**--Z. Barnes, S. Reid, C. Whidden (Chair)

A student may become certified as a teacher of the physical sciences (chemistry, earth science, physics) for grades 8-12 by completing a Bachelor of Science Degree with the requirements listed below. Students may choose a chemistry or a physics emphasis while completing sufficient courses in the other two areas to insure teaching competency. In addition, the student must complete the Teacher Education Program (30 hours) and such tests and activities required for admission and retention in the Teacher Education Program discussed elsewhere in this catalog.

### Competencies required in the program:

The student will:

1. Understand the core concepts of chemistry, geoscience, and physics.
2. Be able to plan effective courses of instruction in the physical sciences.
3. Know how to communicate effectively with students.

4. Be able to establish and organize physical science laboratories so as to illustrate the laws of science and the scientific method.
5. Have an understanding of how and where to acquire information needed by themselves as well as their students.
6. Have an understanding of the National Science Teachers Association standards for high school science instruction.

### Assessment procedures:

Exit examination  
Teacher Education Praxis Examination  
Employer feedback  
Performance in area "capstone" course

## Program Requirements (55 hours minimum):

### Chemistry emphasis (9-11 hours beyond core):

CHEM 327--Organic Chemistry II; or higher electives  
approved by advisor 9-11

### Physics emphasis (9-11 hours beyond core):

PHYS 300 or 400 level electives approved by advisor 9-11

## Core Requirements (44-46 hours)

### Chemistry (16 hours minimum)

|                                      |   |
|--------------------------------------|---|
| CHEM 111--Principles of Chemistry I  | 4 |
| CHEM 112--Principles of Chemistry II | 4 |
| CHEM 326--Organic Chemistry I        | 4 |
| CHEM 360--Analytical Chemistry I     | 4 |

### Earth Science (13 hours minimum)

|                                                                                        |   |
|----------------------------------------------------------------------------------------|---|
| GEOS 108--Physical Geology                                                             | 4 |
| GEOS 201--Historical Geology; or<br>GEOS 410--Geological History of Plants and Animals | 3 |
| GEOS 240--Oceans                                                                       | 3 |
| GEOS 276--Geologic Methods                                                             | 3 |

### Physics (15-17 hours minimum)

(Note: Students completing physics emphasis must follow the calculus based sequence below.)

#### (Algebra based)

|                                            |   |
|--------------------------------------------|---|
| PHYS 201--Elementary Physics I             | 3 |
| PHYS 201A--Elementary Physics I Lab        | 1 |
| PHYS 202--Elementary Physics II            | 3 |
| PHYS 202A--Elementary Physics II Lab       | 1 |
| PHYS 350--Nuclear Science                  | 4 |
| PHYS 300 level or higher approved elective | 3 |

OR

#### (Calculus based)

|                                                                       |   |
|-----------------------------------------------------------------------|---|
| PHYS 231--Engineering Physics I                                       | 4 |
| PHYS 231A--Engineering Physics I Lab                                  | 1 |
| PHYS 232--Engineering Physics II                                      | 4 |
| PHYS 232A--Engineering Physics II Lab                                 | 1 |
| PHYS 350--Nuclear Science; or<br>PHYS 353--Concepts of Modern Physics | 4 |
| PHYS 300 level or higher approved elective                            | 3 |

## Supplemental Requirements (12-15 hours)

|                                                                                                                      |     |
|----------------------------------------------------------------------------------------------------------------------|-----|
| SCI 592--Science for the Secondary Teacher                                                                           | 3   |
| BIOL 171--Principles of Biology                                                                                      | 3   |
| MATH 152--College Algebra; or<br>MATH 174--Precalculus Mathematics; or<br>MATH 175--Analytic Geometry and Calculus I | 3-4 |
| MATH 141--Plane Trigonometry; or<br>MATH 275--Analytic Geometry and Calculus II; or<br>MATH 353--Statistics          | 3-4 |

## Descriptions of Courses

NOTE: (3-0-3) following a course title means 3 hours class, no laboratory, 3 hours credit. Roman numerals I, II, III following the credit hour allowance indicate the term in which the course is normally scheduled; I--fall, II--spring, III--summer.



## Accounting

### ACCT 281. Principles of Accounting I. (3-0-3); I, II.

Meaning and purpose of accounting; the balance sheet, the income statement, books of original entry, special journals, adjusting and closing entries, controlling accounts, notes, interest, inventory, accounts receivable, fixed assets.

### ACCT 282. Principles of Accounting II. (3-0-3); I, II.

**Prerequisite:** ACCT 281. Payroll; corporate accounts, ownership equity, and earnings; financial reporting; manufacturing accounting; funds flow analysis; interpretation of financial statements; managerial analysis.

### ACCT 300. Managerial Accounting. (3-0-3); on demand.

**Prerequisite:** ACCT 282. Analysis of cost data; manufacturing and cost analysis, budgets, managerial decision-making analysis. Not available for option credit for accounting majors.

**ACCT 375. Accounting Analysis and Financial Decision Making. (3-0-3); on demand. Prerequisites:** ACCT 282, CIS 101, FIN 360. Interpretation and development of accounting and financial data and statements incorporating spreadsheet analysis and applications. (See FIN 375.)

### ACCT 381. Intermediate Accounting I. (3-0-3); on demand.

**Prerequisite:** ACCT 281 and ACCT 282. The first of three intermediate-level financial accounting courses. Topics covered will include study of: the environment under which accounting standards are established; the conceptual framework for financial accounting; the accounting cycle; requirements for the presentation of the income statement, balance sheet, and statement of cash flows, time value of money concepts; and accounting for cash, accounts receivable and inventories.

**ACCT 382. Intermediate Accounting II. (3-0-3); on demand. Prerequisite:** ACCT 381. The second of three intermediate-level financial accounting courses. Topics covered will include accounting for: acquisition and depreciation of fixed assets, intangible assets, current liabilities, contingencies, long-term liabilities, stockholders' equity, retained earnings, dilutive securities, earnings per share, investments, and revenue recognition.

**ACCT 383. Intermediate Accounting III. (3-0-3); on demand. Prerequisite:** ACCT 382. The third of the three intermediate-level financial accounting courses. Topics covered will include accounting for: income taxes, pensions, post retirement benefits, leases, changes and errors, and changing prices. Other topics include the cash flow statement, basic financial statement analysis, and methods of full disclosure.

**ACCT 387. Income Tax. (3-0-3); I. Prerequisite:** ACCT 282. Income tax legislation, federal and state; returns for individuals; gross income; basis for gains and losses; capital gains and losses; dividends; deductions; withholding.

**ACCT 388. Practice in Personal Tax Accounting. (1-1-1); on demand. Prerequisite:** ACCT 387. Income tax legislation, federal and state; preparing returns for elderly and low income individuals; gross income; basis for gains and losses; capital gains and losses; dividends; deductions, and withholdings.

### ACCT 390. Cost Accounting I. (3-0-3); on demand.

**Prerequisite:** ACCT 282. Control and classification of manufacturing costs, job order and process cost analysis; materials, labor, and overhead analysis; joint and by-product costing.

**ACCT 391. Accounting Information Systems. (3-0-3); on demand. Prerequisite:** ACCT 282. Examination of accounting information systems within a context of contemporary technology. The course focuses on terms, concepts, and

technology found within the accounting information systems environment; accounting cycles and control of accounting information systems; theory and practices relating to systems development; and reporting practices related to accounting information systems.

**ACCT 399. Selected Workshop Topics. (1 to 4 hrs.); on demand.** Workshops on various accounting subjects will be presented periodically. These workshops supplement the basic accounting courses. Credit toward degree programs must be approved by the student's advisor and the department chair.

**ACCT 428. Governmental Accounting. (3-0-3); on demand. Prerequisite:** ACCT 282 or equivalent. Study of fund accounting techniques for government accounting terminology and budgeting processes; operations of general revenue and expense, capital project, debt service, trust, intragovernment, special assessment, and enterprise funds analysis of fixed assets and liabilities, and basics of hospital and public school fund accounting.

### ACCT 475. Controllorship. (3-0-3); on demand.

**Prerequisites:** ACCT 282 or equivalent. Emphasis on appreciation of the function of the controller in a contemporary business organization. Planning for control, reporting, and interpreting operation results, evaluating new programs, tax administration and other types of required government reporting, economic appraisal of programs, and the protection of assets.

**ACCT 476. Special Problems in Accounting. (1 to 3 hrs.); on demand. Prerequisite:** Completion of 18 hrs. in accounting, senior standing in accounting and permission of department chair. This course is an independent study of an accounting problem of special interest. Students must present in writing a suggested problem and justification for the study prior to registration. Each request will be considered on its own merit in relation to the special needs of the students.

### ACCT 482. Advanced Accounting. (3-0-3); on demand.

**Prerequisite:** ACCT 382. Accounting for requisitions, consolidations, and mergers; purchasing and pooling methods of business combinations, parent and subsidiary accounting for consolidated balance sheets; income statements; statement of changes in financial position; international operations; partnerships; installment sales; consignments; home office and branch accounting.

**ACCT 483. Auditing. (3-0-3); on demand. Prerequisite:** ACCT 382. Accounting principles applied to internal control systems; audit working papers; detail audit; internal audit; special and fractional audits; audit reports; tests and procedures used in auditing, ethical responsibilities of CPAs.

**ACCT 486. Accounting Internship. (1 to 4 hrs.); on demand. Prerequisites:** Completion of 18 hrs. in accounting and permission of the department chair. On-the-job professional experience in accounting working under the supervision of a CPA arranged through cooperating public accounting firms and governmental agencies.

**ACCT 487. Advanced Tax Accounting II. (3-0-3); on demand. Prerequisite:** ACCT 387. Federal income tax report preparation with emphasis on partnership and corporation returns; estate and trust taxation; gift tax; special problems in taxation, tax research.

**ACCT 490. Cost Accounting II. (3-0-3); on demand. Prerequisite:** ACCT 390. Cost analysis for planning, evaluation, and control. Standard costs, direct costing, budgets, cost and profit analysis, alternative choice decisions, linear programming, capital budgeting.

## Agriculture

**AGR 101. Orientation to Agriculture. (1-0-1); I.** The importance of agriculture in the community, state, nation, and world, including career opportunities.

**AGR 102. Agricultural Experience. (1-2 hours); I, II, III.** The course is designed to provide students with basic competencies in the agricultural sciences. Enrollment is limited to students in agricultural programs. Students are required to complete 2 credit hours.

**AGR 108. Elementary Horsemanship (Stockseat). (0-2-1); I, II.** Includes riding basics in relation to stockseat, such as leading a horse, bridling and saddling, grooming, mounting, dismounting, stopping, starting, turning the horse, riding at different gaits, horsemanship safety and ring etiquette, plus general overall knowledge of horses.

**AGR 109. Elementary Horsemanship (Saddle Seat). (0-2-1); I, II.** Includes riding basics in relation to saddle seat, such as leading a horse, checking saddle and bridle; mounting and dismounting, stopping, starting, turning, and backing the horse, riding horses at different gaits, horsemanship safety and ring etiquette; plus general overall knowledge of horses.

**AGR 110. Elementary Horsemanship (Hunt Seat). (0-2-1); I, II.** Includes riding basics in relation to hunt seat, such as leading a horse, checking saddle and bridle; mounting and dismounting, stopping, starting, turning, and backing the horse; riding horses at different gaits, horsemanship safety and ring etiquette; and general overall knowledge of horses.

**AGR 118. Intermediate Horsemanship (Stockseat). (0-2-1); I, II. Prerequisite: AGR 108, 109, 110 or consent of instructor.** Includes review of elementary horsemanship (stockseat) techniques; handling horses properly from the ground; grooming and tacking-up; more advanced riding skills such as rein and leg aides; correct body position; halts, turns, and figurework; trail riding; and parts of the horse, bridle, and saddle, all in relation to western riding.

**AGR 119. Intermediate Horsemanship (Saddle Seat). (0-2-1); I, II. Prerequisite: AGR 109, AGR 110, or consent of instructor.** Includes review of elementary horsemanship (saddle seat) techniques; handling horse properly from ground; grooming, tacking-up; more advanced riding skills such as leg aides, rein aides, and canter leads; detailed study of gaits, equipment, and dress; and trail riding and showing horses, parts of the horse, bridle, and saddle.

**AGR 120. Intermediate Horsemanship (Hunt Seat). (0-2-1); I, II. Prerequisite: AGR 109, AGR 110, or consent of instructor.** Intermediate review of elementary horsemanship (hunt seat) techniques; handling horse properly from ground; grooming, tacking-up; more advanced riding skills such as leg aides, rein aides, and canter leads; detailed study of gaits, equipment, and dress; and trail riding and showing horses, parts of the horse, bridle, and saddle.

**AGR 133. Introduction to Animal Science. (2-2-3); I,II.** Fundamental genetics, nutrition, and physiology of beef and dairy cattle, swine, and sheep and horses.

**AGR 180. Introduction to Field Crops. (2-2-3); II. Prerequisite: BIOL 150, or consent of instructor.** A study of the national and international distribution and importance of major food, feed, oil, fiber, and miscellaneous crops; natural requirements and human inputs for production; current practices in production technology; crop morphology.

**AGR 202. Agricultural Plants and Humanity. (3-0-3); I. Prerequisite: ENG 100.** The roles agronomic and horticultural

plants play in the improved physical and mental health of individuals, in the social and cultural development of countries and communities, and in maintaining an ecologically-sound planet. *This course satisfies area studies-practical living for general education.*

**AGR 204. World Food. (3-0-3); I, II, III.** Analysis of contemporary problems and issues of public concern relating to food, agriculture, and rural areas using the tools of fundamental economic concepts. Farm income, food prices, world food problems, natural resources, environment, and rural development issues will be studied. *This course satisfies area studies-social and behavioral sciences for general education.*

**AGR 205. Farm Records. (3-0-3); II.** Development and application of farm records necessary for farm business analysis, including a study of types of inventories, depreciation schedules, cost determining, and record keeping.

**AGR 211. Soils. (2-2-3); I. Prerequisite: CHEM 101.** Study of origin, formation, composition, and classification of soils; the physical, chemical, and biological properties of the soil; texture, structure, and nutrient holding capacities in relation to plant growth and soil management.

**AGR 212. Landscape Plants. (2-2-3); I (in even years.)** A study of ornamental trees, shrubs, and vines commonly used in landscaping. Emphasis is placed on identification, characteristics, adaptability, and maintenance.

**AGR 213. Landscape Design. (2-2-3); II (in odd years.) Prerequisite: AGR 212 and HS 103.** An introduction to residential landscape design. Emphasis on the design process, design principles, and selection of plants and man-made materials.

**AGR 215. Horticultural Science. (2-2-3); II. Prerequisite: BIOL 150.** A study of the basic principles underlying horticultural practices in fruit growing, vegetable gardening, landscape gardening, and floriculture.

**AGR 221. Equitation. (1-4-3); I. Prerequisite: AGR 118, 119 or 120, or consent of instructor.** Study and application of basic equitation techniques as it applies to various breeds and styles of riding. Figure work.

**AGR 222. Livestock Evaluation. (2-2-3); II. Prerequisite: AGR 133.** An introduction to growth, development and fattening of meat animals. Evaluation of live animal and carcass characteristics of cattle, sheep and swine.

**AGR 224. Greenhouse Operations. (2-2-3); II (in odd years.) Prerequisite: AGR 215.** Study of the greenhouse industry, media, watering, fertilization, insects, diseases, chemical growth regulators, hydroponics, and cost-accounting.

**AGR 235. Supervised Work Experience. (1 to 6 hours); I, II, III.** A supervised work experience program for students planning careers in agriculture upon completion of the associate degree program. See VET 235.

**AGR 243. Equine Health and Diseases. (2-2-3); I.** A general study of the anatomy and physiology of the horse, first aid, diseases and parasites, normal and abnormal behavior and how they relate to herd health management.

**AGR 245. Horseshoeing. (2-2-3); II.** The fundamentals of horseshoeing; the basic use of farrier tools; anatomy and physiology of the foot, pastern, and legs. Trimming feet, fitting and nailing shoes, normal and corrective shoeing.

**AGR 251. Introduction to Agriculture Mechanics. (2-2-3); I.** Farm shop organization; shop safety; selection, use, and maintenance of hand and power tools and equipment for construction and maintenance in agriculture; practical exercises and projects to develop essential skills.

**AGR 261. Information, Acquisition, & Analysis. (2-2-3); I, II, III.** The study of the processes used in collecting, organizing, evaluating, and presenting data and information through the use of computerized data collection and analysis systems. Application software commonly used in the various disciplines of Agricultural Sciences. *This course satisfies the required core-computer competency for general education.*

**AGR 300. Pest Management. (2-2-3); II. Prerequisite: AGR 133 or AGR 180 or consent of instructor.** Studies in the nature and management of agricultural pests. Discussion will include but not be limited to such topics as pest types; pest damage; cultural, biological, and chemical management strategies; integrated pest management; economic, health, and safety perspectives; and utilization techniques.

**AGR 301. Farm Management. (3-0-3); I. Prerequisite: AGR 203.** Farm organization, fitting livestock and cropping programs into a functioning unit, profit maximization and least cost combination of resources for a specified level of production.

**AGR 302. Agriculture Finance. (3-0-3); I (in even years.)** A study of farm capital structure and needs. The policy and practices of institutions offering credit to farmers are analyzed.

**AGR 303. Land Economics. (3-0-3); II (in even years.) Prerequisites: AGR 203 and 211.** Farm selection and appraisal of land resources; adaptation of land as the basis for farm organization and agricultural production; study of land tenure systems; rights of ownership; recreational possibilities of nonproductive land.

**AGR 305. Marketing of Farm Products. (3-0-3); I (in even years.)** Development of geographical specializations, demand and supply schedules of agricultural products, price equilibrium, long and short run cyclical price movements, hedging in futures, demand expansion, increasing operational and pricing efficiency, specific commodity marketing.

**AGR 308. Weed Science. (2-2-3); I (in even years.) Prerequisites: AGR 180, 211, CHEM 112, 112A.** Identification and classification of weed species, methods of reproduction, and growth characteristics. Effects on livestock, crop yield and quality, and human well-being; management methods and technology.

**AGR 311. Soil Conservation. (2-2-3); I. Prerequisite: AGR 211 or consent of instructor.** Land resources, capabilities, and uses; land use planning; agricultural, construction, mining, and other use effects on soil resources, geologic and accelerated erosion; soil pollution, economics of soil conservation; conservation practices and philosophies.

**AGR 312. Soil Fertility and Fertilizers. (3-0-3); II (in even years.) Prerequisite: AGR 215 or equivalent.** A study of plant nutrient needs and uptake; soil nutrient supplying ability; nutrient - soil interactions; chemical forms; fertilizer source materials and manufacture; soil testing and fertility management; economic fertilizer use.

**AGR 314. Plant Propagation. (2-2-3); II (in even years.) Prerequisite: AGR 215 or consent of instructor.** A study of the principles and practices of the propagation of horticultural plants. Includes seeding, layering, cutting, division, grafting, and budding.

**AGR 315. Fruit Production. (2-2-3); I (in even years.) Prerequisite: AGR 215 or consent of instructor.** Tree fruits, nuts, and small fruits; varieties, sites, soils, pruning, pest control, planning, and commercial marketing.

**AGR 316. Feeds and Feeding. (2-2-3); I. Prerequisites: CHEM 201 and AGR 133.** Feeds and formulation of rations;

fats, carbohydrates, proteins, and their digesting; the role of minerals, vitamins, and feed additives in nutrition.

**AGR 317. Floral Design. (2-2-3); I, II.** A beginning course for floral design dealing with basics in arranging fresh, dried, and permanent flowers and foliage.

**AGR 318. Landscape Maintenance. (2-2-3); II (in odd years.) Prerequisites: AGR 212 and 215 or consent of instructor.** Basic maintenance of tree, shrub, ground cover, and annual plants, including fertilizing, mulching, pests, planting, pruning, training, and watering.

**AGR 319. Herbs. (2-2-3), II (in even years.) Prerequisites: BIOL 150 or AGR 215, or consent of instructor.** A study of the history, culture, uses, and marketing of culinary, medicinal, and aromatic herbs.

**AGR 320. Principles of Vegetable Production. (2-2-3); I (in odd years.) Prerequisite: AGR 215 or consent of instructor.** Principles of commercial and home vegetable production and handling. Includes soil; ecological and economic factors which influence production; producing for fresh and processing markets; varieties, pest control, cultural practices, and mechanization.

**AGR 323. Interior Landscaping. (2-2-3); I (in even years.) Prerequisite: AGR 215.** Design, selection of plants, installation, and maintenance of interior landscapes in offices, homes, and public buildings.

**AGR 324. Greenhouse Structures. (2-2-3); I (in odd years.) Prerequisite: AGR 215.** Study of factors involved in locating, constructing, and equipping a greenhouse. Studies include coverings, heating, cooling, ventilating, CO<sub>2</sub> injectors, benches, watering and fertilizer application systems, supplemental lighting, environmental control systems, and hothouses.

**AGR 325. Turf Management. (2-2-3); I (in even years.) Prerequisites: BIOL 150 and AGR 215 or consent of instructor.** Turf grass varieties, basic principles of production and their practical application to establishment, maintenance, renovation, and pest control on lawns, playgrounds, and sports turf areas.

**AGR 326. Nursery Management. (2-2-3); II (in odd years.) Prerequisites: AGR 215, 314, or consent of instructor.** Selection, systems of culture, harvesting and management of ornamental trees, shrubs, and vines.

**AGR 327. Advanced Landscape Design. (2-2-3); I (in odd years.) Prerequisites: AGR 212, 213, or consent of instructor.** Selection and location of ornamental plants for large properties such as schools, playgrounds, estates, apartment complexes, and factories. Preparing specifications and bids.

**AGR 328. Floral Crop Production. (2-2-3); II (in odd years.) Prerequisites: AGR 215 and AGR 224.** Production of bedding plants, flowering potted plants, cut-flowers, and foliage plants.

**AGR 329. Advanced Stockseat Horsemanship. (1-4-3); I (in odd years.) Prerequisites: AGR 118, 221, or consent of instructor.** Develop skills of performance equitation. Specific skills needed in the training or showing of western horses, halter, pleasure, and reining.

**AGR 330. Livestock Improvement. (2-2-3); II (in odd years.) Prerequisite: AGR 133.** Study of the principles, practices, and procedures of animal breeding, selection and mating systems and their application for farm livestock production and improvement.

**AGR 332. Advanced Saddleseat Horsemanship. (1-4-3); II. Prerequisites: AGR 119, 221, or consent of instructor.** Develop skills of performance equitation. Specific skills needed in driving, training, and showing of saddleseat style horses.

**AGR 333. Advanced Huntseat Horsemanship.** (1-4-3); II (in even years.) *Prerequisites:* AGR 120, 221 or consent of instructor. Develop skills of performance equitation. Specific skills needed in training or showing of hunter horses, jumping and course design.

**AGR 335. Equitation Teaching.** (2-2-3); II (in even years.) *Prerequisite:* AGR 332. The techniques of horsemanship and methods of equitation instruction.

**AGR 336. Dairy Production.** (2-2-3); (in even years.) *Prerequisites:* AGR 133, and AGR 316. A general study of the factors involved in the management of a dairy cow herd, including herd operation, records, breeding programs, diseases and principles of nutrition.

**AGR 337. Poultry Production.** (2-2-3); I (in even years.) *Prerequisites:* AGR 133 and AGR 316 or consent of instructor. Principles of poultry production including common breeds of chickens, incubation, breeding, housing, nutrition, diseases, and general management practices.

**AGR 338. Livestock Judging.** (1-5-3); II (in odd years.) *Prerequisite:* AGR 222. Study and practice of the principles of livestock judging. The student will be expected to gain an understanding of phenotypic appearance as it relates to important economic traits and genetic improvement of livestock.

**AGR 342. Horse Production.** (2-2-3); I (in even years.) *Prerequisite:* AGR 243. A general study of the history and development of breeds of the horse, the relationship of form to function, horse selection, horse breeding, feeding and genetics.

**AGR 343. Beef Production.** (2-2-3); II (in even years.) *Prerequisites:* AGR 133 and 316 or approval of the department. The history, development, and distribution of breeds; sources of cattle and carcass beef; production and distribution practices in steer feeding; commercial and purebred breeding herds.

**AGR 344. Swine Production.** (2-2-3); I (in odd years.) *Prerequisites:* AGR 133 and 316 or approval of the department. History, development, and distribution of types of breeds; management practices, including disease problems in commercial and purebred herds.

**AGR 345. Sheep Production.** (2-2-3); II (in odd years.) *Prerequisites:* AGR 133 and 316 or approval of the department. History, development, and distribution of types and breeds; selection, breeding, feeding, and management of sheep; production and handling of wool.

**AGR 350. Farm Power and Machinery Management.** (2-2-3); I. Selection, operation, maintenance, and servicing of agriculture power and machinery units.

**AGR 380. Equine Management.** (2-2-3); I, III (in odd years.) *Prerequisites:* AGR 243 and AGR 342. Management and practices in various horse operations as they relate to buildings and equipment, sanitation, pasture and feed selection, supervision of laborers, public relations, legalities and liabilities, and record keeping systems.

**AGR 384. Forage Crops.** (2-2-3); II (in even years.) *Prerequisites:* AGR 180 and 211. The distribution of various forage crops and their adaptations to soil and climate; seeding rates and mixtures; productivity; pest control; and preservation and utilization methods.

**AGR 385. Agribusiness Management.** (3-0-3); II (in even years.) *Prerequisite:* AGR 203. Management of the agribusiness functions, responsibilities, and operational characteristics unique to an agriculturally related business, particularly cooperatives.

**AGR 386. Introduction to Agricultural Policy.** (3-0-3); II (in odd years.) A history of agricultural policy and policy

making; defining the problems and their settings, government participation in supply and demand for agricultural products.

**AGR 388. Methods of Curriculum Development.** (3-0-3); II. *Prerequisites:* VOC 207 or consent of instructor. A comprehensive study of current curriculum content in Vocational Education. Emphasis on modifying and developing new curricula. See HS 388 and IET 388.

**AGR 392. Methods of Instructional Technology.** (2-2-3); I, III. *Prerequisites:* Admission to the teacher education program, VOC 207. Holistic approach to curriculum development with an introduction to the use of technology to develop and enhance curriculum and instruction. A portfolio will be maintained and presented at the end of the class. See HS 392 and IET 392.

**AGR 402. Advanced Agricultural Experience.** (1-2 hours); I, II, III. The course is designed to provide students with advanced competencies and agricultural management skills in the option they have chosen. Enrollment is limited to students in agricultural programs.

**AGR 470. Methods of Instruction.** (3-0-3); I. *Prerequisite:* Admission to Teacher Education Program. The principles of instructional methods which apply to the teaching of agricultural subject matter which is included under the major program components of secondary vocational agriculture programs. See HS 470 and IET 470.

**AGR 471. Seminar.** (1-0-1); I, II. *Prerequisite:* Second semester junior standing. Identification of problems and issues reflected in the current professional agricultural literature.

**AGR 476. Special Problems.** (1 to 3 hrs.); I, II, III. *Prerequisite:* Upper division standing. Permits a student to do advanced work as a continuation of an earlier experience or to work in an area of special interest. Topic for investigation must be selected and approved by advisor prior to registration.

**AGR 478. Student Teaching Practicum.** (12-0-12); I, II. *Prerequisite:* Admission to Teacher Education Program. Each student is assigned to an approved student teaching center offering comprehensive teaching experience in Agricultural Education. See HS 478 and IET 478.

**AGR 480. Equine Breeding and Reproduction.** (1-4-3); II. *Prerequisites:* AGR 342 and AGR 332 or equivalent. A thorough study of the anatomy and physiology of reproduction in the stallion and the mare with practical emphasis on teasing, breeding, and foaling techniques, semen collection, insemination, and evaluation, along with daily recordkeeping.

**AGR 499C. Senior Seminar in Agriculture.** (3-0-3); I, II. *Prerequisite:* Senior status in an Agriculture major or area of concentration. Students may conduct research projects or utilize literature surveys leading to written and oral reports in their area of interest in Agriculture. Guest lecturers and faculty will present the most current information in Agriculture. This course satisfies the integrative component for general education.

**AGR 505. Farm Business Analysis.** (2-2-3); on demand. *Prerequisite:* Consent of instructor. A basic course in the applicability of farm records to the efficiency analysis of whole farms and of specific enterprises. Actual University farm enterprises will be used to provide the data source for laboratory work.

**AGR 512. Conservation Workshop.** (2-2-3); on demand. *Prerequisite:* Consent of instructor. Development of the conservation movement with broad treatment of the basic natural resources, including land, water, air, minerals, forests, and wildlife. May be repeated, but not to exceed total of six hours.

**AGR 515. Animal Nutrition. (2-2-3); II. Prerequisite:** *AGR 316.* Chemistry, metabolism, and physiological functions of nutrients; digestibility, nutritional balances, and measures of food energy.

**AGR 580. Methods of Teaching Vocational Agriculture. (4-0-4); II.** The principles of methods applied to teaching vocational agricultural education to high school students. Course organization, farming programs, and Future Farmers of America activities.

**AGR 582. Adult and Young Farmer Education. (3-0-3); II.** The principles and techniques method in organizing and program planning in post high school vocational agricultural education and conducting young farmer and adult farmer classes.

**AGR 584. Teaching Vocational Agriculture. (8-0-8); II.** Supervised teaching in centers selected by the state agriculture education staff and members of the teaching staff. Teacher experiences with in-school and out-of-school groups.

**AGR 585. Teaching Agricultural Mechanics. (3-0-3); I.** Objectives with methods, equipment and management of the shop, organization of facilities for high school and vocational technical programs.

**AGR 586. Planning Programs in Vocational Agriculture. (3-0-3); II.** Organization and analysis of the program of vocational agriculture. Departmental program of activities, summer programs, advisory committees, and Future Farmers of America activities.

**AGR 588. Curriculum Development and Content Selections. (3-0-3); III.** Each student prepares the content for a four-year program in vocational agriculture.

**AGR 592. Supervision in Agriculture. (3-0-3); I, II.** The principles and techniques needed in individual group supervision of vocational agricultural programs.

## Art

**ART 101. Two-Dimensional Foundation. (2-2-3); I, II, III.** An introduction to drawing and design concepts including shape, line, value, perspective, and composition. A variety of basic drawing materials are used. Theory, skill, and perceptual development are emphasized.

**ART 102. Three Dimensional Foundation. (2-2-3); I, II, III.** An introduction to three dimensional design, special theory, and concepts are taught employing a variety of methods and materials such as paper, wire, styrofoam, and plaster.

**ART 103. Color Foundation. (2-2-3); I, II, III.** The study of color and its application to color and light, pigment blending, and process printing through lecture and class projects.

**ART 109. Introduction to the Computer in the Visual Arts. (2-2-3); I, II, III.** An introduction to the computer as an academic and professional tool, employing the MacIntosh computer platform. Areas covered include the manipulation and generation of images, word processing, spread sheets and basic telecommunications. This course is recommended for, but not limited to art majors. *This course satisfies the required core-computer competency for general education.*

**ART 121. School Art I. (2-2-3); I, II, III.** Introduction to art and to the teaching of art in the lower (1-3) elementary grades.

**ART 204. Drawing I. (2-2-3); I, II, III.** Introduction to objective and subjective drawing using various graphic media.

**ART 205. Graphic Design I. (2-2-3); I, II. Prerequisites:** *ART 101 and 103.* Introduction to lettering principles and their

application. Rough and comprehensive layout in black and white and color, with emphasis on design.

**ART 214. Painting Techniques I. (2-2-3). Prerequisites:** *ART 103 or permission of department.* Introduction to oil painting, materials and methods, arrangement of the palette; and the use of a variety of different subjects.

**ART 221. School Art II. (2-2-3); I, II, III.** Philosophy and methods of teaching art to children in the elementary grades; a study of materials, media, and tools.

**ART 245. Ceramics I. (2-2-3); I, II, III.** Introduction to ceramic forms in hand building, wheel-throwing, glazing, and decorative techniques.

**ART 263. Art History I. (3-0-3); I, II.** An examination of prehistoric, ancient Near Eastern, Pre-Columbian, tribal and Asian art. It includes a study of materials, techniques, subjects, styles, issues, functions and meanings. *This course satisfies the area studies-humanities for general education.*

**ART 264. Art History II. (3-0-3); I, II.** An examination of ancient Greek and Roman, and Medieval art. It includes a study of materials, techniques, subjects, styles, issues, functions and meanings. *This course satisfies the area studies-humanities for general education.*

**ART 265. Art History III. (3-0-3); I, II.** An examination of art from the Renaissance to the present. It includes a study of materials, techniques, subjects, styles, issues, functions and meanings. *This course satisfies the area studies-humanities for general education.*

**ART 294. Sculpture I. (2-2-3); I, II.** Creative experiences in the techniques, media, and tools of sculpture, work in stone, wood, metal, clay, and plaster.

**ART 300. Elementary Materials and Methods. (2-2-3); II. Prerequisite:** *Acceptance into the teacher education program.* Background and philosophy of elementary art in education.

**ART 304. Drawing II. (2-2-3); I, II. Prerequisite:** *ART 204 or permission of department.* A continuation of ART 204.

**ART 305. Graphic Design II. (2-2-3); I, II. Prerequisite:** *ART 205.* A study of three-dimensional design with emphasis on product and package design.

**ART 309. Computer Art. (2-2-3); I, II.** Use of computers to generate and manipulate images.

**ART 310. Puppetmaking. (2-2-3); I, II, III.** The historical and contemporary significance of puppetry including the techniques and methods of construction and production.

**ART 314. Painting Techniques II. (2-2-3); I, II, III.** Painting from still life and landscape with emphasis on creative interpretation and expression.

**ART 316. Watercolor I (2-2-3); I, II, III.** Introduction to watercolor media and methods and to the use of various subjects.

**ART 321. Materials and Methods for Secondary Art. (2-2-3); I. Prerequisite:** *Acceptance into teacher education program.* Presentation of the background, philosophy, and techniques for the teaching of art in the secondary school.

**ART 341. Fibers I. (2-2-3); I, II.** Introduction to fiber processes, including spinning and dyeing, coiling, twining, wrapping, tapestry, and loom weaving.

**ART 342. Surface Design for Fabric I. (2-2-3); I, II.** An introduction to surface design including stamping, tiling, repeat design, and screen printing on fabric.

**ART 345. Ceramics II. (2-2-3); I, II, III. Prerequisite:** *ART 245.* Individual work in wheel-throwing, hand building, operation of kilns, and basic experiments in glazing.

**ART 351. Intaglio Printmaking. (2-2-3); I, II. Prerequisite:** *ART 101 or permission of the department.* Creative

experiments in intaglio printmaking on stone. Techniques include line etching, aquatint, soft ground, dry point, and monotype on zinc and copper.

**ART 352. Lithographic Printmaking. (2-2-3); I, II. Prerequisite:** *ART 101 or permission of the department.* Creative experiments in the techniques of lithographic printmaking on stone. Processes include crayon, rubbing ink, liquid tusche, acid tint, and transfer.

**ART 361. Ancient Art. (3-0-3); I.** The history of Western painting, sculpture, and architecture from prehistoric times until the beginning of the Christian era.

**ART 362. Medieval Art. (3-0-3); II (alternate years).** The history of European painting, sculpture, and architecture from the beginning of the Christian era until c. 1300.

**ART 363. Renaissance Art. (3-0-3); I (alternate years).** The history of European painting, sculpture, and architecture from c. 1300 until c. 1525.

**ART 364. Mannerist and Baroque Art. (3-0-3); II (alternate years).** The history of European painting, sculpture, and architecture from c. 1525 until c. 1750.

**ART 373. Basic Black and White Photography. (2-2-3); I, II.** Practical introduction to the basic camera and darkroom techniques of black and white photography. Areas covered include camera operation, film exposure and development, enlarging and print presentation.

**ART 394. Sculpture II. (2-2-3); I, II. Prerequisite:** *ART 294.* Studio problems involving the manipulation of various sculpture media.

**ART 399. Art Workshop. (3-0-3); (taught on demand during summer).** Participation in art activities according to individual needs.

**ART 400. Apprenticeship. (3 to 16 credits); I, II, III. Prerequisite:** *Departmental approval upon satisfactory completion of application procedure.* Experience in a working situation, allowing the student access to instruction and practical experiences not normally available in the Art Department curriculum.

**ART 404. Drawing III. (2-2-3); I, II. Prerequisite:** *ART 304.* A serious search into the expressive possibilities of the figure; anatomical investigation of parts, variety of media and techniques leading to individual interpretation.

**ART 405. Graphic Design III. (2-2-3); I, II. Prerequisite:** *ART 305.* Introduction to the use of graphics as a means of visual communication with emphasis on design concepts. Studio assignments on problems related to the community, society, industry, and commerce.

**ART 406. Graphic Design IV. (2-2-3); I, II. Prerequisite:** *ART 405.* Advanced work in advertising design with emphasis placed on the commercial application of design principles as they relate to the organization of copy and illustration for use by media.

**ART 407. Commercial Illustration I. (2-2-3); I, II. Prerequisite:** *ART 204 and 205.* Two- and three-dimensional forms and the various techniques for rendering them for use in commercial design. Emphasis is placed on realistic drawing and presentation of objects.

**ART 408. Commercial Illustration II. (3 to 6 hrs.); I, II. May be repeated. Prerequisite:** *ART 407.* The continuation of studies in the area of commercial illustration. A more comprehensive study of different media and illustration techniques.

**ART 409. Airbrush. (2-2-3); I, II. Prerequisites:** *ART 214, 205, or permission of department.* An introduction to use of the airbrush and its application to design concepts including shape, line, value, texture and composition. A variety of airbrush related materials are used. Techniques, skill and perceptual development are emphasized.

**ART 410. Computer Animation. (2-2-3); I, II. Prerequisite:** *ART 109 and 309 or permission of department.* The course will give students intensive instruction on the MacIntosh Computer system in the use and application of 3D modeling and 3D animation programs in the visual art.

**ART 414. Painting Techniques III. (2-2-3); I, II, III.** Further exploration of different mediums and direction toward an individual approach. Painting from a variety of subjects; technical investigation and creative interpretation emphasized.

**ART 445. Ceramics III. (2-2-3). I, II. Prerequisite:** *ART 345.* An in-depth study of more advanced forms, surface treatment theory of kiln firing and glaze calculation.

**ART 451. Intaglio Printmaking Studio. (2-2-3); I, II. May be repeated. Prerequisite:** *ART 351.* Advanced studio in intaglio printmaking. Techniques include engraving, mezzotint, color intaglio, photo-etching and color monotype.

**ART 452. Lithographic Printmaking Studio. (2-2-3); I, II. May be repeated. Prerequisite:** *ART 352.* Advanced studio in lithographic printmaking. Techniques include color lithography, reversal, chine colle, and multi-plate registration.

**ART 461. Modern Art. (3-0-3); I (alternate years).** The history of European and American Art painting, sculpture, and architecture from c. 1750 until c. 1900.

**ART 462. Contemporary Art. (3-0-3); II (alternate years).** The painting, sculpture, and architecture of the twentieth century.

**ART 463. Art of the United States. (3-0-3); I (alternate years).** A survey of the social, political, and cultural movements which affected the course of American artistic development.

**ART 464. Spanish, Portuguese and Latin American Art. (3-0-3); II (alternate years).** A survey of the painting, sculpture, and architecture of Spain, Portugal, and Latin America.

**ART 467. Native American Art. (3-0-3); I (alternate years).** A survey of the visual arts of the indigenous tribes of North America from the beginning of their recorded history through the present.

**ART 473. 35mm Photography. (2-2-3); I, II. Prerequisite:** *ART 373.* Advanced small format shooting and darkroom techniques exploring various subjects and styles.

**ART 474. Photo Studio. (2-2-3); I, II. Prerequisite:** *ART 373.* Small or large format individual projects requiring in-depth treatment of a particular subject, concept, or style.

**ART 475. Large Format Photography. (2-2-3); I, II. Prerequisite:** *ART 373 or permission of department.* Large format camera operation with various subjects and styles and printing of large format negatives.

**ART 476. Individual Art Problems. (1 to 6 hrs.); I, II, III. Prerequisite:** *The student must have completed all of the department's courses that are offered in the specific media and must obtain permission of the instructor. Individual Art Problems will be offered for the student who wishes to explore one medium in depth.*

**ART 494. Sculpture III. (2-2-3); I, II. Prerequisite: ART 294 and 394.** Advanced problems in sculpture involving a combination of materials and their uniqueness as media.

**ART 499C. Visual Art Capstone. (2-2-3); I, II. Prerequisite: Junior and senior standing.** An integrative course stressing oral and written discourse on the visual arts and preparation of students for professional goals. *This course satisfies the integrative component for general education.*

**ART 504A. Drawing IV. (2-2-3); I, II. Prerequisite: ART 404.** Advanced studio in figure drawing. Further exploration of figure drawing concepts and media with emphasis on creative interpretation and expression.

**ART 504B. Drawing IV. (2-2-3); I, II. Prerequisite: ART 404.** Advanced studio in figure drawing. Further exploration of figure drawing concepts and media with emphasis on creative interpretation and expression.

**ART 514. Painting Techniques IV. (2-2-3); I, II, III.** Experiences leading toward individual achievements in styles and techniques.

**ART 545. Ceramics IV. (2-2-3); I, II.** Advanced study of contemporary ceramic form and surface resolution. Continued practical experience with kiln operation and glaze calculation.

**ART 555. Advanced Art Problems. (1 to 6 hrs.); I, II, III. Prerequisite: Permission of the department required.** A studio course involving research in an art area of the student's choice.

## Biology

**BIOL 105. Introduction to Biological Sciences. (3-0-3); I, II, III.** An introduction to ecology, chemistry of evolution, reproduction and development, viruses and kingdoms of life. NOT ACCEPTABLE for biology majors and minors. *This course satisfies the area studies-natural and mathematical sciences for general education.*

**BIOL 110. Biological science for Elementary Teachers. (2-2-3); I, II, III.** An introduction to the study of living things, cell structure and function, photosynthesis, respiration, reproduction, growth, heredity, evolution and ecology. NOT ACCEPTABLE for biology majors, minors, or areas. *This course satisfies the area studies-natural and mathematical sciences for general education.*

**BIOL 150. Introduction to Plant Science. (2-2-3); I.** Structure, growth, reproduction and ecology of plants. Emphasis on cultivated plant and applications. NOT ACCEPTABLE for biology majors, minors, and areas. *This course satisfies the area studies-natural and mathematical sciences for general education.*

**BIOL 155. Population, Resources, and the Environment. (3-0-3); I, II, III.** Human ecology with special emphasis on the interactions between humans, required resources (physical, chemical, geological and biological), and their regional and global environments. Information is presented from an analytical and interdisciplinary perspective. *This course satisfies the area studies-natural and mathematical sciences for general education.*

**BIOL 171. Principles of Biology. (3-2-4); I, II, III. Prerequisite: Composite ACT of 20 or above.** General biological principles; emphasis on cell function, energetics, cell communication, homeostasis, genetics, evolution, and ecology. *This course satisfies the area studies-natural and mathematical sciences for general education.*

**BIOL 199. Selected Workshop Topics. (1 to 4 hrs.); on demand. Prerequisites: Variable.** Workshops in various

biological and environmental subjects presented periodically, based on need. Usually hands-on, experimental, and/or innovative, these workshops supplement various programs in the biological and environmental sciences or other disciplines. Individual credit towards degree programs must be approved by the student's advisor.

**BIOL 210. General Zoology. (2-4-4); I, II. Prerequisites: BIOL 171.** A survey of animals from Protozoa to Mammalia with emphasis on phylogeny, evolution, comparative morphology, and physiology.

**BIOL 213. Introduction to Veterinary Microbiology. (2-4-4); I, II. Prerequisite: CHEM 101.** Study of bacterial and mycotic agents pathogenic to humans and animals. The collection, isolation, cultivation and identification of pathogenic microorganisms from animals is stressed. Virology, anti-microbial susceptibility tests, serological methods and quality control introduced. NOT ACCEPTABLE for Biology majors or minors.

**BIOL 215. General Botany. (2-4-4); I, II, III. Prerequisite: BIOL 171.** Structure and physiology of vegetative and reproductive plant organs; introduction to plant genetics and plant kingdom in terms of structure, ecology, and evolution.

**BIOL 217. Elementary Medical Microbiology. (3-2-4); I, II, III.** An elementary microbiology course for students interested in understanding the characteristics and activities of microorganisms and their relationship to health and disease. NOT ACCEPTABLE as credit for biology majors and minors.

**BIOL 231. Human Anatomy. (3-0-3); I, II, III. Prerequisite: Composite ACT score of 19 or above, or BIOL 105 or equivalent.** A study of functional human anatomy. NOT ACCEPTABLE as credit for the major or min in biology. *This course satisfies the area studies-natural and mathematical sciences for general education.*

**BIOL 232. Human Physiology. (3-0-3); I, II, III. Prerequisite: BIOL 231 or equivalent.** Physiology of the various systems of the human body as particularly related to health. NOT ACCEPTABLE as credit for biology majors and minors (non-teaching).

**BIOL 233. Laboratory for Human Physiology. (0-2-1); I, II, III. Prerequisites: BIOL 232 or equivalent (may be taken concurrently).** Fundamental physiological principles with an emphasis on laboratory technique, equipment usage, and clinical applications. NOT ACCEPTABLE as credit for biology majors and minors (non-teaching).

**BIOL 301. Survey of Biochemistry. (3-2-4); I, II. Prerequisite: CHEM 201.** Chemistry of simple and complex biomolecules such as amino acids, proteins, carbohydrates, lipids, and nucleic acids. Biosynthesis and metabolic cycles; gene composition (DNA, RNA, etc.). Primarily for students in applied sciences and not for majors or minors in chemistry. See CHEM 301.

**BIOL 304. Genetics. (2-2-3); I, II, III. Prerequisite: BIOL 171.** Mendelism, chromosomes and heredity, gene theory, cytological and physiological analyses, and population genetics.

**BIOL 313. Economic Botany. (3 hours credit).** Wood products, plant fibers, latex products, pectins, gums, resin, tannins, dyes, essential oils, medicinals, insecticides, tobacco, oils, fats, waxes, food and beverage plants. Three lecture-discussion-demonstration hours per week. (Correspondence only.)

**BIOL 317. Principles of Microbiology. (2-4-4); I, II, III. Prerequisites: BIOL 171 and CHEM 112.** Fundamental and applied aspects of microbiology. Morphology, metabolism,

genetics, taxonomy, and immunology emphasized. Medical and environmental microbiology laboratory techniques stressed.

**BIOL 318. Local Flora. (1-4-3); I. Prerequisite:** *BIOL 215.* Identification and classification of plants native to the area. Collection and herbarium techniques.

**BIOL 334. Entomology. (2-2-3); II. Prerequisite:** *BIOL 210.* General structure of insects, life histories, common orders and families; insects in relation to man.

**BIOL 336. Pathophysiology. (4-0-4); II. Prerequisites:** *BIOL 217, 232, and CHEM 201 or equivalents.* Dynamic aspects of disease and disruption of normal physiology. Correlates anatomy, physiology, and biochemistry and their application to clinical practice for Allied Health students.

**BIOL 337. Comparative Anatomy. (2-2-3); II. Prerequisite:** *BIOL 210.* Vertebrate morphology, especially from an evolutionary perspective. Functional aspects and evolutionary trends among the vertebrate classes are emphasized.

**BIOL 338. Developmental Biology. (2-2-3); I. Prerequisite:** *BIOL 210.* Vertebrate development from gamete formation through the fetal stage; emphasis on comparative structural development.

**BIOL 350. Heredity and Society. (3-0-3); on demand. Prerequisite:** *BIOL 105 or equivalent.* Evolutionary processes and intricacies of genetic transmission. Evolution in human thought, experience, and affairs.

**BIOL 351. Plant Natural History. (3-0-3); on demand. Prerequisite:** *BIOL 105 or equivalent.* A survey of major taxonomic groups; emphasis on the natural history of local plants.

**BIOL 352. Animal Natural History. (3-0-3); on demand. Prerequisite:** *BIOL 105 or equivalent.* A survey of major taxonomic groups; with emphasis on the natural history of local animals.

**BIOL 356. Environmental Biology. (3-0-3); II. Prerequisite:** *BIOL 155 or consent of instructor.* Basic ecological principles, population and community ecology as they apply to current environmental problems. BIOL 357 is a companion course, although either may be taken separately.

**BIOL 357. Environmental Testing Methods. (1-4-3); I. Prerequisite:** *Consent of instructor.* Methods used in determining water quality and air and noise pollution levels. Techniques of animal and plant population estimation. BIOL 356 is a companion course, although either may be taken separately.

**BIOL 380. Cell Biology. (2-2-3); I, II, III. Prerequisites:** *BIOL 171 and CHEM 201 or 326, plus eight additional hours of biology.* Integration of biological, chemical, and physical aspects of the cell. Emphasis on molecular processes.

**BIOL 399. Selected Workshop Topics. (1 to 4 hrs.); on demand. Prerequisites:** *Variable.* Workshops in various biological and environmental subjects presented periodically, based on need. Usually hands-on, experimental, and/or innovative, these workshops supplement various programs in the biological and environmental sciences or other disciplines. Individual credit towards degree programs must be approved by the student's advisor.

**BIOL 413. Medical Technology Clinical Practicum. (4); III.** See Medical Technology Curriculum.

**BIOL 414. Medical Technology Clinical Practicum. (4); III.** See Medical Technology Curriculum.

**BIOL 415. Medical Technology Clinical Practicum. (14); I.** See Medical Technology Curriculum.

**BIOL 416. Medical Technology Clinical Practicum. (14); II.** See Medical Technology Curriculum.

**BIOL 417. Medical Technology Clinical Practicum. (12); I, II.** See Medical Technology Curriculum.

**BIOL 419. Immunology. (2-2-3); II. Prerequisites:** *BIOL 317 and BIOL 380.* May be concurrently enrolled in BIOL 380. Basic cellular and molecular mechanisms of the immune response and its regulation, including response manifestations. Modern laboratory techniques stressed.

**BIOL 425. Animal Physiology. (2-2-3); I. Prerequisite:** *BIOL 210, CHEM 201 or 326, plus eight additional hours of biology.* Comparison of fundamental physiological processes in representative invertebrate and vertebrate animals. Emphasis placed on comparative energetics and physiological adaptations of organisms to their environment.

**BIOL 426. Plant Physiology. (2-2-3); on demand. Prerequisites:** *BIOL 215 and CHEM 112 or equivalent.* Diffusion, osmosis, cell wall and membrane structure, mineral nutrition, photosynthesis, respiration, macro-molecules, photoperiodism, and other aspects of plant growth and development.

**BIOL 437. Ornithology. (1-4-3); II. Prerequisite:** *BIOL 210.* Anatomy, physiology, classification, and identification of birds; life histories, habits, migration, and economic importance of native species. Field trips required.

**BIOL 446. Biotechnology. (2-2-3); I. Prerequisite:** *BIOL 304.* Advanced theory and methods in genetic engineering, protein expression and purification, and practical applications of immunoglobins; transgenic organisms and agricultural biotechnology are also covered.

**BIOL 450. Aquatic Entomology. (1-4-3); II. Prerequisite:** *BIOL 210.* Survey of aquatic insects, especially those used as water quality indicator organisms. The student shall be introduced to myriad modern collecting-sampling techniques; analyses shall require extensive use of taxonomic keys.

**BIOL 461. Ecology. (2-2-3); I. Prerequisites:** *BIOL 210, BIOL 215, MATH 152 or higher, eight hours of college chemistry.* Interrelations of organisms and environment. Some all-day field trips required.

**BIOL 471. Seminar in Biological Science. (1-0-1); I, II. Prerequisite:** *Senior standing.* Introduction to research and literature in the biological sciences.

**BIOL 475. Contemporary Environmental Issues. (3-0-3); II. Prerequisites:** *Senior level students in Environmental Science Area.* An in-depth examination of current environmental issues and problems with local, regional, national or international import. The historic context, current laws and applicable technology, ecological, social and ethical implications of the issues will be explored.

**BIOL 476. Special Problems. (1 to 6 hrs.); I, II, III.** Independent topics and research in the biological and environmental sciences. Topic must be approved prior to registration.

**BIOL 485. Biology Teaching Methods. (1-4-3); II. Prerequisites:** *Admission to the Teacher Education Program and completion of at least 20 hours in biology.* Concepts of teaching and methods for the selection, preparation, and presentation of lecture laboratory materials for secondary biology classes.

**BIOL 499C. Contemporary Environmental Issues. (3-0-3); II. Prerequisite:** *Senior level students in Environmental Science Area.* An in-depth examination of current

environmental issues and problems with local, regional, national or international import. The historic context, current laws and applicable technology, ecological, social and ethical implications of the issues will be explored. *This course satisfies the integrative component for general education for students with an area of concentration in environmental science.*

**BIOL 499D. Principles of Evolution. (3-0-3); II.**

*Prerequisite: A minimum of 23 hours of biology from the core for the biology major is required. Biology/Chemistry 301 or BIOL 590 is also recommended.* General evolutionary principles with emphasis on molecular, cellular, microbial, organismal, physiological, and ecological evolution. *This course satisfies the integrative component for general education for students with a major in biology.*

**BIOL 505. Invertebrate Zoology. (1-4-3); II. Prerequisite: BIOL 210.** Major invertebrate phyla; emphasis on their evolution, taxonomy, morphology, physiology, and ecology; local representatives. Field trips required.

**BIOL 510. Limnology. (2-2-3); II. Prerequisites: BIOL 210, BIOL 215, MATH 152 or higher, eight hours of college chemistry.** Ecology and biota of inland waters. Some all-day field trips required.

**BIOL 514. Plant Pathology. (1-4-3); on demand.**

*Prerequisites: BIOL 215.* Plant diseases; classification of fungi; diseases caused by rusts, smuts, fleshy fungi, bacteria, and viruses; physiogenic diseases; principles and procedures in the control of plant diseases; resistant varieties and culture control.

**BIOL 518. Pathogenic Microbiology. (2-2-3); I.**

*Prerequisite: BIOL 217 or 317.* Medically important microorganisms; bacteria and fungi emphasized. The isolation, cultivation, and identification of pathogenic microorganisms from clinical specimens stressed. Antimicrobial susceptibility tests, serological methods, and quality control introduced.

**BIOL 519. Virology. (3-0-3); on demand. Prerequisite: BIOL 317 or consent of instructor.** Morphology and chemistry of the virus particle; symptoms, identification, and control of more common virus diseases of plants and animals; host-virus relationships; and research methods concerned with viruses.

**BIOL 520. Histology. (2-2-3); I. Prerequisites: BIOL 210, CHEM 201, or 326, plus eight additional hours of biology.** Characteristics of tissues and organs of vertebrates.

**BIOL 530. Ichthyology. (1-4-3); II in even years.**

*Prerequisite: BIOL 210.* The anatomy, physiology, taxonomy, ecology, distribution, natural history, and evolution of fish. Emphasis on collection, identification, and classification of those fresh water fish native to eastern North America. Common marine fish of the Atlantic and Gulf coasts. Field trips required.

**BIOL 531. Herpetology. (1-4-3); II in odd years.**

*Prerequisite: BIOL 210.* The anatomy, physiology, taxonomy, ecology, distribution, natural history, and evolution of fish. Emphasis on collection, identification, and classification of those reptiles found in eastern North America. Field trips required.

**BIOL 535. Mammalogy. (1-4-3); I. Prerequisite: BIOL 210.** Mammals of eastern North America with emphasis on mammals of southeastern North America. Taxonomy, adaptation, natural history, and methods of skin preparation. Field trips required.

**BIOL 540. General Parasitology. (2-2-3); I. Prerequisite: BIOL 210.** Protozoan, helminth, and arthropod parasites of man and domestic animals; emphasis on etiology, epidemiology, diagnosis, control, and general life histories of parasites.

**BIOL 550. Plant Anatomy. (2-2-3); I. Prerequisite: BIOL 215.** Gross and microscopic studies of internal and external structures of vascular plants. The cell, meristem, cambium,

primary body, xylem and phloem; roots, stems, and leaves; flowers and fruits; ecological anatomy.

**BIOL 553. Environmental Education. (2-2-3); I.**

*Prerequisite: Consent of instructor.* Distribution and reserve depletion of wildlife, forest, land, water, air, and mineral resources; emphasis on population, pollution, and environment. Field trips to environmentally important areas are required. Not acceptable as credit for Biology or Environmental Science majors and minors. Especially designed for in-service and pre-service teachers.

**BIOL 555. Plant Morphology. (2-2-3); II. Prerequisite:**

**BIOL 215.** Fossil and living non-vascular plants (except bacteria) and vascular plants; emphasis on ecology, morphology, and evolution.

**BIOL 580. History of Science. (3-0-3); on demand. See SCI 580.**

**BIOL 590. Biochemistry. (4-0-4); I. Prerequisite: CHEM 327 or equivalent or permission of professor.** In depth survey of the major groups of biomolecules, including carbohydrates, lipids, proteins, nucleic acids, enzymes; biosynthetic pathways; energy metabolism; enzyme mechanisms; and regulation of biochemical processes.

**BIOL 593. Laboratory Techniques in Biochemistry. (0-4-2);**

**I. Prerequisite/Co-requisite: BIOL 590.** Weekly laboratory sessions focusing on advanced techniques utilized in the study of biological molecules. Emphasis will be placed on methods in isolation and characterization of biological materials, density gradient ultracentrifugation, spectroscopic methods, electrophoretic techniques, chromatographic separations, radiotopic labelling, and statistical analysis of experimental data.

**BIOL 599. Selected Workshop Topics. (1 to 4 hrs.); on demand. Prerequisites: Variable.** Workshops in various biological and environmental subjects presented periodically, based on need. Usually hands-on, experimental, and/or innovative, these workshops supplement various programs in the biological and environmental sciences or other disciplines. Individual credit towards degree programs must be approved by the student's advisor.

## Business Information Systems

**BIS 113. Keyboarding. (1-0-1); I, II.** Touch keyboarding of the alphabetic, numeric, and symbol keys, including the ten-key pad. Utilization of basic function keys. Emphasis on development of rapid and accurate keyboarding skills.

**BIS 114. Keyboarding/Formatting. (2-0-2); I, II.**

*Prerequisite: BIS 113 or equivalent; or consent of instructor.* Mastery of the keyboard and development of techniques. Emphasis on rapid and accurate keyboarding skills and application of these skills to fundamental communication documents--letters, memos, forms, and reports.

**BIS 115. Word Processing Application. (3-0-3); I, II.**

*Prerequisite: BIS 114 or equivalent, or consent of instructor.* Focus on use of word processing software to create and refine business communication documents--letters, memos, forms, and reports--while building on keyboarding techniques.

**BIS 234. Specialized Office Procedures. (3-0-3); I.**

*Prerequisites: BIS 240 and BIS 320. Medical secretarial students will also need NAHS 202 as a prerequisite.* Materials, methods, techniques for the legal, medical, and executive offices with emphasis on office routine, information processing, human relations. Students work on individualized units.

**BIS 240. Information Resource Management. (3-0-3); I, II.**  
*Prerequisites:* **CIS 101.** Emphasis on the management of the records management cycle--creation, retrieval, storage, transfer, disposal--in business environments.

**BIS 320. Information Processing Application. (3-0-3); I.**  
*Prerequisite:* **BIS 115 and CIS 101.** Emphasis on information processing techniques utilizing integrated software to refine word processing formatting, spreadsheet and database applications, desktop publishing skills, and presentation techniques.

**BIS 321. Business Communications. (3-0-3); I, II.**  
*Prerequisites:* **ENG 200 and keyboarding competency.** Current principles in business letter and report writing, stressing human relations approach.

**BIS 340. End-User Information Systems. (3-0-3); I, II.**  
Provides an overview of the practices, trends, and issues in business information systems (end-user computing) with emphasis on emerging information technologies.

**BIS 363. Administrative Information Systems. (3-0-3); I, II.**  
Management of administrative information systems in business environments--communication, data, ergonomics, reprographics, micrographics, and personnel.

**BIS 398. Practicum in Information Systems. (3 hrs.); I, II.**  
Provides work experience (non-compensated) in an occupational area. Student works under supervision in an approved position. Course credit commensurate with time worked, type of work, variety of work experience.

**BIS 399. Selected Workshop Topics. (1 to 4 hrs.); on demand.** Workshops on various business information systems topics will be presented periodically to supplement and update the basic course offerings in business information systems. Credit toward degree programs must be approved by the student's advisor and consent of instructor.

**BIS 421. Business and Technical Presentations. (3-0-3); I, II.**  
*Prerequisites:* **Admission to the College of Business Upper Division Core Program; senior standing; and BIS 321.**  
Provides practical strategies for creating and presenting business and technical presentations supported by emerging desktop presentation software. This course will include researching, creating, and presenting business plans, financial audit and accounting reports, marketing and economic data analyses, as well as research and technical information. Negotiating and selling skills also will be an integral part of the course.

**BIS 425. Training and Development for Industry. (3-0-3); II.**  
*Prerequisites:* **MNGT 301 or BIS 363; and BIS 321 or BIS 421.** Study of the relevant theories, issues, trends, and methods in training and developing adult learners in work organizations; includes program design, needs and task analysis, delivery methods, working with consultants, and program evaluation.

**BIS 476. Special Problems Business Information Systems. (1 to 3 hrs.); on demand.** This course is an independent study of business information systems problems of special interest. Students must present in writing a suggested problem and justification for the study prior to registration. Each request will be considered on its own merit in relation to the special needs of the student.

**BIS 499C. Methods of Teaching Business Subjects. (5-0-5); I.**  
*Prerequisites:* **Senior standing and formal admission to Teacher Education Program.** Application and integration of teaching and learning approaches to create objectives, lesson plans, skill building techniques; use of methods, materials, teaching aides, testing, measurement, grading for the preparation and certification of Business and marketing Education teachers in

grades 5-12. *This course satisfies the integrative component for general education.*

## Chemistry

**CHEM 101. Survey of Chemistry I. (3-2-4); I, II, III.**  
*Prerequisites:* **Grade of "A" or "B" in MATH 093, or Grade of "C" in MATH 131 or higher, or enhanced ACT math subscore of 18 or higher.** A survey of chemical topics that includes atoms, molecules, mixtures, chemical reactions, subatomic particles, light and matter, stoichiometry, heats of reaction, ions, acids, bases and pH. The topics are covered in combination with case studies such as ozone layer depletion and global warming. This course is intended for students in the applied sciences and is not recommended for natural science majors. *This course satisfies the area studies-natural and mathematical sciences for general education.*

**CHEM 111. Principles of Chemistry I. (3-2-4); I, II.**  
*Prerequisite:* **MATH 152 (or equivalent) or enhanced ACT mathematics score of 20 or higher.** An introduction to stoichiometry and chemical equations, electronic structure of atoms and molecules, periodic properties, gases, phases equilibria, and solutions, with laboratory. Primarily for natural science and pre-professional students. *This course satisfies the area studies-natural and mathematical sciences for general education.*

**CHEM 112. Principles of Chemistry II. (3-2-4); I, II.**  
*Prerequisite:* **Grade of "C" or better in CHEM 111.** Continuation of CHEM 111. An introduction to chemical equilibria, thermodynamics, and kinetics, electro-chemistry, and coordination compounds, with laboratory. The descriptive chemistry of selected groups of elements is introduced.

**CHEM 199. Selected Topics. (1 to 6 hrs.); on demand.**

**CHEM 201. Survey of Chemistry II. (3-2-4); I, II, III.**  
*Prerequisite:* **Grade of "C" or better in CHEM 101.** A survey of chemical topics that includes precipitation and redox reactions, radioactivity, solar energy, organic functional groups, drug design and approval, polymers, carbohydrates, proteins and lipids. The topics are covered in combination with case studies such as the pollution of a lake, Chernobyl disaster and the Thalidomide problem. This course is intended for students in the applied sciences and is not recommended for natural science majors.

**CHEM 239. Cooperative Education. (1-8 hours). I, II, III.**  
Participation in supervised work experience in a professional environment. Department approval is required.

**CHEM 299. Selected Topics. (1 to 6 hrs.); on demand.**

**CHEM 301. Survey of Biochemistry. (3-2-4); I.**  
*Prerequisite:* **CHEM 201.** Chemistry of simple and complex biomolecules such as amino acids, proteins, carbohydrates, lipids, and nucleic acids. Biosynthesis and metabolic cycles; gene composition (DNA, RNA, etc.), with laboratory. (Hours not applicable for major or minor in chemistry) See BIOL 301.

**CHEM 326. Organic Chemistry I. (3-2-4); I, II.**  
*Prerequisite:* **Grade of "C" or better in CHEM 112.** Structure and nomenclature of organic molecules; reactions and reaction mechanisms of hydrocarbons, alkyl halides, alcohols, and ethers, with laboratory.

**CHEM 327. Organic Chemistry II. (3-2-4); I, II.**  
*Prerequisite:* **Grade of "C" or better in CHEM 326.** Introduction to interpretation of IR and NMR spectra; reactions and reaction mechanisms of aldehydes, ketones, carboxylic acids

and derivatives, phenols, amines, and organometallics, with laboratory.

**CHEM 328. Organic Chemistry III. (2-4-4); on demand.**  
*Prerequisite:* Grade of "C" or better in CHEM 327. Advanced topics in organic chemistry; orbital symmetry, heterocyclics and polycyclics, macromolecules, carbanion reactions, and an introduction to physical organic chemistry, with laboratory.

**CHEM 339. Cooperative Education. (1-8 hours). I, II, III.**  
Participation in supervised work experience in a professional environment. Department approval is required.

**CHEM 340. Chemical Information. (2-2-3); II. Prerequisite:**  
*CHEM 112, CHEM 326 recommended.* Study and use of primary and secondary chemical literature sources, data, and reference sources in chemistry. An introduction to the Chemical Abstracts service, Biological Abstracts, Science Citation Index and the corresponding data bases. Personal data bases, data collection and manipulation, and related current software will also be discussed.

**CHEM 351. Inorganic Chemistry. (2-0-2); II. Prerequisite:**  
*Grade of "C" or better in CHEM 112.* Descriptive inorganic chemistry, main group elements. Structure of inorganic compounds. Oxidation-reduction chemistry, acid-base theories, and relationship of thermodynamics to structure and reactivity of inorganic compounds.

**CHEM 360. Analytical Chemistry I. (2-4-4); I. Prerequisite:**  
*Grade of "C" or better in CHEM 112. CHEM 326 recommended.* Content to include errors and small sample statistics, complicated stoichiometry, analytical applications of equilibrium calculations, electrochemical potentials, and an introduction to spectrophotometry. Laboratory work includes gravimetric, volumetric, direct potentiometric and spectrophotometric determinations.

**CHEM 399. Selected Topics. (1 to 6 hrs.); on demand.**

**CHEM 439. Cooperative Education. (1-8 hours); I, II, III.**  
Participation in supervised work experience in a professional environment. Department approval is required.

**CHEM 441. Physical Chemistry I. (3-0-3); I. Prerequisite:**  
*PHYS 201 or 231 and CHEM 360 and a grade of "C" or better in MATH 175.* Chemical thermodynamics and chemical kinetics.

**CHEM 442. Physical Chemistry II. (3-2-4); II.**  
*Prerequisites:* Grade of "C" or better in CHEM 441 and MATH 275. Topics include quantum chemistry, spectroscopy, statistical mechanics, and transport properties.

**CHEM 451. Advanced Inorganic Chemistry. (3-0-3); I (in alternate years.) Prerequisite: Grade of "C" or better in CHEM 351. CHEM 441 is recommended. Electronic structure and bonding in inorganic compounds. Thermodynamic and kinetic interpretation of selected inorganic and organometallic reactions.**

**CHEM 460. Analytical Chemistry II. (2-4-4); II (in alternate years.) Prerequisites: Grade of "C" or better in CHEM 327 and 360. The theory and practice of infrared, visible, ultraviolet, X-ray and gamma ray, and electron spectroscopies in determinations. The use of chromatography, atomic spectroscopy, and electrochemistry in analytical chemistry. Some quantitative applications of mass and nuclear magnetic resonance spectroscopy are included.**

**CHEM 476. Special Problems. (1 to 6 hrs.); I, II, III.**  
*Prerequisite:* Consent of instructor. Topic to be approved prior to registration. (Maximum of 3 credit hours applicable toward major, minor, or area of concentration in chemistry.)

**CHEM 499. Selected Topics. (1 to 6 hrs.); on demand.**

## Communications (General)

**COMM 239, 439, 539. Cooperative Education. I, II, III.**  
The Department of Communications offers a series of cooperative study courses allowing students to alternate semesters of on-campus studies with periods of full-time related work experience. See general section of the catalog for a more complete description of Cooperative Education. Prior application necessary. See restrictions applying to all programs in communications.

**COMM 247. Internship. (1 to 3 hrs.); I, II, III.**  
Competency-based practical experience aimed at increasing the proficiency of the student in assigned positions. Prior application necessary. May be repeated. See restrictions applying to all programs in communications.

**COMM 399. Workshop. (3-0-3); on demand.** A workshop in various area of communication.

**COMM 447. Internship. (1 to 3 hrs.); I, II, III.**  
Competency-based practical experience aimed at increasing the proficiency of the student in assigned positions. Prior application necessary. May be repeated. See restrictions applying to all programs in communications.

**COMM 476. Special Problems. (1 to 3 hrs.); I, II, III. (By prior arrangement with instructor only.)** Research on an original project with appropriate written report, within a subject area. May be repeated. See restrictions applying to all programs in communications.

## Communications (Advertising - Public Relations)

**CMAJ 166. Desktop Publishing and Publication Techniques I. (2-2-3). I, II, III.** This is an introduction to the use of computers in communications utilizing the Macintosh platform. Areas covered include the manipulation of images, word processing, basic telecommunications, and data management. This course is required for, but not limited to, students in the Area of Concentration in Communications and provides students with the basic computer skills necessary for success in mass media courses in the field. *This course satisfies the required core-computer competency for general education.*

**CMAJ 239. Cooperative Education. (1 to 3 hrs); I, II, III.**  
*Prerequisite:* CMAJ 166 & CMJN 201. The Area of Concentration in Communication offers cooperative study courses allowing students to alternate semesters of on-campus studies with periods of related work experience. Prior application necessary. Permission of instructor.

**CMAJ 247. Internship. (1 to 3 hrs); I, II, III. Prerequisite:**  
*CMAJ 166 & CMJN 201.* Competency-based practical experience aimed at increasing the proficiency of the students in assigned positions. Prior application necessary. Permission of instructor and supervisor.

**CMAJ 306. Newspaper Graphics and Production. (3-0-3); On demand. Prerequisite:** CMAJ 166. Theoretical and practical study of the evolution of the graphic design, typography, and production of modern newspapers. Hands-on experience in layout and production.

**CMAJ 366: Desktop Publishing and Publication Techniques II. (2-2-3); I, II. Prerequisite:** CMAJ 166 or consent of instructor. Study and application of desktop publishing and publication techniques using the most up-to-date computer software programs.

**CMAP 382. Principles of Public Relations. (3-0-3); I, II.** Purposes, methods, and responsibilities in the profession of public relations.

**CMAP 383. Principles of Advertising. (3-0-3); I, II.** Advertising principles and practices.

**CMAP 399. Public Relations Workshop. (3-0-3); On demand. Prerequisite: CMAP 166.** A hands-on workshop in preparing print-media public relations materials.

**CMAP 439. Cooperative Education. (1 to 3 hrs); I, II, III. Prerequisite: CMAP 239.** The Area of Concentration in Communication offers cooperative study courses allowing students to alternate semesters of on-campus studies with periods of related work experience. Prior application necessary. Permission of instructor.

**CMAP 447. Internship. (1 to 3 hrs); I, II, III. Prerequisite: CMAP 247.** Competency-based practical experience aimed at increasing the proficiency of the students in assigned positions. Prior application necessary. Permission of instructor and supervisor.

**CMAP 464. Magazine Editing and Design. (3-0-3); On demand. Prerequisite: CMAP 166.** Editing and the graphic design of magazines.

**CMAP 476. Special Problems. (1 to 3 hrs); I, II, III. Prerequisite: CMAP 382 & 383.** Research on an original project with appropriate written report, within a subject area. Permission of instructor.

**CMAP 482. Public Relations Practices. (3-0-3); II. Prerequisite: CMAP 382.** Specific practices in carrying out campaigns in public relations.

**CMAP 483. Advertising Design. (3-0-3); II. Prerequisite: CMAP 383.** Study and application of methods of designing and producing advertisements. Primarily in print media, but includes television storyboards.

**CMAP 499C. Senior Project. (3-0-3); II. Prerequisites: Senior standing and 30 hours towards an area of concentration.** Using an assigned project from a working environment situation, students will, in teams, analyze the market place and develop a project from beginning to implementation. *This course satisfies the integrative component for general education.*

**CMAP 505. Law and Ethics. (3-0-3); II.** An examination of law as it affects print and broadcast media and advertising. Crosslisted with CMJN 505.

**CMAP 510. Advanced Public Speaking. (3-0-3); II, on demand.** Exposure to traditional preparation and delivery of the study, complex speeches. Crosslisted with SPCH 510.

**CMAP 539. Cooperative Education. (1 to 3 hrs); I, II, III. Prerequisite: CMAP 439.** The Area of Concentration in Communication offers cooperative study courses allowing students to alternate semesters of on-campus studies with periods of related work experience. Prior application necessary. Permission of instructor.

**CMAP 567. Organizational Communication. (3-0-3); I (even years).** Study of the functions of communication within organizations and professional environment. Students may be assessed a fee for materials distributed in class. Crosslisted with SPCH 567.

**CMAP 571. Interviewing. (3-0-3); II.** A detailed study of the various business interview types, coupled with role-playing experience. Crosslisted with SPCH 571.

**CMAP 583. Advertising Copy Writing. (3-0-3); I. Prerequisite: CMAP 366, CMAP 383 & CMAP 483, or permission of**

**instructor.** Writing advertising headlines and copy for mass media.

**CMAP 584. Psychology of Advertising. (3-0-3); II. Prerequisite: CMAP 366, CMAP 383 & CMAP 483, or permission of instructor.** Psychological strategy used in art, words, and graphics as persuasive advertising devices.

**CMAP 591. Technical Writing I. (3-0-3).** Principles of analysis, process, and definition program recommended, and research reports; proposals, and memoranda; visual aids; transitions, mechanics of clear and precise statement. Crosslisted with ENG 591.

**CMAP 592. Technical Writing II. (3-0-3); II. Prerequisite: consent of instructor.** Continuation of CMAP 591. Crosslisted with ENG 592.

**CMAP 597. Technical Editing. (3-0-3).** Study of practice and management of editing for technical, scientific, professional, and corporate reports and writings. Crosslisted with ENG 597.

## Communications (Electronic Media)

**CMEM 151. Introduction to Broadcasting Techniques. (2-2-3); I, II.** An introduction to the equipment utilized in production for the electronic media. The basic operation of this equipment. To include program conception and the application of technology to achieve communication with an audience.

**CMEM 155. Performance for Electronic Media. (3-0-3); I.** The basic theory and application of good vocal production techniques. Placing an emphasis on vocal communication skill of enunciation, pronunciation, inflection and pacing.

**CMEM 210. Media Literacy. (3-0-3); I, II, III.** This course is designed to explore issues of media influence on everyday life and acquaint the general student with the way in which media shape aspects of modern society. *This course satisfies the area studies-humanities for general education.*

**CMEM 239. Cooperative Education. (1 to 4 hrs); I, II, III. Prerequisites: CMEM 151 and CMEM 210.** The Area of Concentration in Communication offers cooperative study courses allowing students to alternate semesters of on-campus studies with periods of related work experience. Prior application necessary. Permission of instructor and supervisor.

**CMEM 247. Internship. (1 to 3 hrs); I, II, III. Prerequisite: CMEM 151.** Competency-based experience aimed at increasing the proficiency of the students in assigned positions. Prior application necessary. Permission of instructor and supervisor.

**CMEM 250. Audio Production and Direction. (3-2-4); I, II. Prerequisite: CMEM 151.** A study of the theory and application of audio production for all electronic media, including radio, television, cable, and film.

**CMEM 320. Advertising and Sales for Electronic Media. (3-0-3); II.** Theory and application of the practical and theoretical aspect of advertising for the electronic media. A study of campaigns, ratings, concepts of the purchase of time on electronic media.

**CMEM 338. Radio Operating Practices. (1-0-1); I, II.** Basic law, technical operating practices, meter reading, and electronic fundamentals necessary in the operation of a broadcast facility.

**CMEM 340. Video Production and Direction I. (2-2-3); I, II. Prerequisite: CMEM 151 and CMEM 250 or consent of instructor.** Basic electronic media production techniques and an introduction of directing skills in a laboratory situation.

**CMEM 341. Writing for the Electronic Media. (3-0-3); I, II. Prerequisite: CMEM 151 or consent of instructor.** The

study and application of theory and techniques used in creating advertising and programming for the electronic media. Emphasis is placed on the conception and creation of advertising presentations.

**CMEM 344. News and Public Affairs for the Electronic Media. (3-0-3); I.** Theory and practice of preparing, writing and presentation of news and public affairs programming as applied to the electronic media.

**CMEM 357. Sportscasting. (3-0-3); on demand.** The philosophy and techniques utilized in developing style of presentation of sports for the electronic media. Theory practically applied in play-by-play description, interviewing and the presentation of copy.

**CMEM 358. Sportswriting. (3-0-3); on demand. Prerequisite: CMJN 201.** The philosophy and techniques of writing sports news and analysis and commentary for the mass media.

**CMEM 379. Field Study Experience. (1 to 3 hrs); on demand. (May be repeated for credit when topics vary).** *Prerequisite: Consent of instructor.* Participant will travel to a major broadcasting center and tour commercial, independent, public, cable and satellite broadcast facilities. Will also include related media facilities, news services, public relations and advertising agencies, government facilities and agencies; discussion and informal seminars with practicing professionals and officials in their fields of expertise.

**CMEM 420. Feature and Documentary Writing for the Electronic Media. (3-0-3); I. Prerequisite: CMEM 340.** Advanced theory and practices of writing for the electronic medium. Emphasis is placed on writing and production of features and documentaries for radio, television and cable systems.

**CMEM 423. Advanced Commercial and Continuity Writing. (3-0-3); on demand. Prerequisite: CMEM 341.** Script writing techniques for the advanced media copywriter. Practice in writing various types of commercials, continuities and formats for the electronic media.

**CMEM 435. Interviewing for the Electronic Media. (3-0-3); II. Prerequisite: CMEM 341 or CMJN 201, or consent of instructor.** Philosophy and techniques utilized in interviewing for media. Theory practically applied by conducting taped interviews in radio and television studios.

**CMEM 439. Cooperative Education. (1 to 8 hrs); I, II, III. Prerequisite: CMEM 151, CMEM 210, CMEM 250 and CMEM 340.** The Area of Concentration in Communication offers cooperative study courses allowing students to alternate semesters of on-campus studies with periods of related work experience. Prior application necessary. Permission of instructor and supervisor.

**CMEM 440. Video Production and Direction II. (2-2-3); II. Prerequisite: CMEM 340, junior standing, or consent of instructor.** Extension of CMEM 340; with advanced instruction in studio operations. Emphasis upon the opportunity to produce and direct several program types and to serve on crews for such productions.

**CMEM 444. Electronic Newsgathering. (3-0-3); II. Prerequisites: CMEM 340 and CMEM 344.** Practical experience in the gathering, production and distribution of news utilizing audio and video technology. How to combine writing and performance skills with production skills to successfully produce airworthy audio and video news reports, features, and news packages. Primary emphasis will be on utilization of electronic newsgathering techniques.

**CMEM 445. Electronic Field Production. (3-0-3); III. Prerequisite: CMEM 440 or consent of instructor.** Theory and practice in the production of commercial and feature production outside the studio using a single-camera technique. Includes post-production electronic editing and production techniques.

**CMEM 447. Internship. (1 to 3 hrs); I, II, III. Prerequisite: CMEM 247, CMEM 250 or CMEM 340.** Competency-based experience aimed at increasing the proficiency of the students in assigned positions. Prior application necessary. Consent of instructor and supervisor.

**CMEM 450. Electronic Media Management. (3-0-3); II. Prerequisite: Junior standing or consent of instructor.** The examination of administrative decision-making in electronic media. Attention is focused on audience research, sales regulatory and personnel concerns. Special attention is given to the purpose and basic idea of programming in relation to audience composition.

**CMEM 451. Professional Audio Practices. (2-2-3); I. Prerequisite: CMEM 250 or consent of instructor.** Experience and advanced study in theory and applications in areas such as music recording and sound, with an emphasis on multi-track recording techniques.

**CMEM 459. Electronic Media Law and Regulation. (3-0-3); II. Prerequisite: Junior standing.** An examination of the basic regulatory law and policy as applied to electronic media as it is today and from an historic and socio-economic perspective.

**CMEM 476. Special Problems. (1 to 3 hrs); I, II, III. Prerequisite: Junior standing and by prior arrangement with instructor only.** Research on an original project (may include an audio or video production) with appropriate written report, within a subject area. May be repeated.

**CMEM 499C. Electronic Media Senior Seminar. (3-0-3); II. Prerequisites: Senior standing and completion of a minimum of 30 hours toward the Area of Concentration in Communications.** This course is designed for students seeking careers in electronic media. It will provide them with information and instruction in skills self-assessment, job procurement processes and procedures, career field expectations and requirements, and production of a professional resume and portfolio. *This course satisfies the integrative component for general education.*

**CMEM 539. Cooperative Education. (1 to 8 hrs); I, II, III. Prerequisite: CMEM 239 or 439 and 250 or 340.** The Area of Concentration in Communication offers cooperative study courses allowing students to alternate semesters of on-campus studies with periods of related work experience. Prior application necessary. Permission of instructor and supervisor.

**CMEM 550. Problems in Contemporary Electronic Media. (3-0-3); on demand. Prerequisite: Senior standing and consent of instructor.** An examination of current problems within the electronic media industry.

**CMEM 558. Public Broadcasting. (3-0-3); on demand. Prerequisite: Senior standing.** A study of the development of the public broadcasting system in the United States as compared to other "public" systems in other countries from both a theoretical and operational standpoint.

**CMEM 560. History of Broadcasting. (3-0-3); on demand. Prerequisite: Senior standing.** A historical study of radio and television as a communication service and its development in the United States.

**CMEM 562. Electronic Media Criticism. (3-0-3); on demand. Prerequisite: Senior standing.** An examination of the

electronic media in sociological, aesthetic, historical, psychological and humanistic terms.

**CMEM 580. New Technology, Policy and the Communication Industry.** (3-0-3); on demand. *Prerequisite:* *Senior standing.* An examination of the new developments in electronic media, the sources of policy and influence which guide them and public interest issues affected by these policies.

**CMEM 582. American Popular Culture and Communications Technology.** (3-0-3); on demand. *Prerequisite:* *Senior standing.* Examination of the role and effects of major advances of communications technology on the course of American popular culture and society in the past, present, and future.

## Communications (Journalism)

**CMJN 110. Introduction to Mass Communications.** (3-0-3); I, II. Survey of history, functions, career openings, and interrelationship of newspapers, radio, television, other media and attendant agencies.

**CMJN 201. News Writing and Reporting.** (3-0-3); I, II. *Prerequisite:* *CMA 166 or consent of instructor.* Gathering, organizing and writing news for mass media.

**CMJN 204. Copyreading and Editing.** (3-0-3); II. *Prerequisite:* *CMA 166 and CMJN 201.* Copy correcting, both on typed news copy and on computers; proofreading, headline writing, news selection, page layout.

**CMJN 239. Cooperative Education.** (1 to 3 hrs); I, II, III. *Prerequisite:* *CMJN 201 & CMA 166.* The Area of Concentration offers a series of cooperative study courses allowing students to alternate semesters of on-campus studies with periods of full-time related work experience. Prior application necessary. Permission of instructor.

**CMJN 247. Internship.** (1 to 3 hrs); I, II, III. *Prerequisite:* *Consent of instructor.* Competency-based practical experience aimed at increasing the proficiency of the students in assigned positions. Prior application necessary. Permission of instructor and supervisor.

**CMJN 285. Introduction to Photojournalism.** (2-2-3); I, II. Lecture and laboratory, introduction to camera use, darkroom procedure, photo layout and practices in reporting news pictorially. Camera rental fee for students without suitable camera. (Lab fee will be assessed each student).

**CMJN 301. Advanced News Writing and Reporting.** (3-0-3); II. *Prerequisite:* *CMA 166 & CMJN 201.* Advanced reporting including covering courts, police, governmental agencies. Interviewing skills, legal aspects of the press, and theories of social responsibility.

**CMJN 310. History of Journalism.** (3-0-3); on demand. *Prerequisite:* *CMJN 110.* Origins and development of American journalism as a profession, mainly through newspapers and their roles in history.

**CMJN 358. Sports Writing.** (3-0-3); on demand. *Prerequisite:* *CMJN 201.* Philosophy and techniques in writing sports and sports analysis or commentary for print media.

**CMJN 364. Feature Writing.** (3-0-3); II. *Prerequisite:* *CMA 166 and CMJN 201.* Researching, organizing, and writing and marketing of non-fiction articles.

**CMJN 386. Photo Essay and Editing.** (3-0-3); on demand. *Prerequisite:* *CMJN 285.* Photographic composition, selection and production of pictures for various publications.

**CMJN 387. Advanced Photojournalism.** (3-0-3); on demand. *Prerequisite:* *CMJN 285.* In-depth study of photojournalism equipment, techniques, style, including color

photography. For journalism majors and minors only. Camera rental fee for students without suitable camera.

**CMJN 439. Cooperative Education.** (1 to 3 hrs); I, II, III. *Prerequisite:* *CMJN 239.* The Area of Concentration in Communication offers cooperative study courses allowing students to alternate semesters of on-campus studies with periods of related work experience. Prior application necessary. Permission of instructor.

**CMJN 447. Internship.** (1 to 3 hrs); I, II, III. *Prerequisite:* *CMJN 247.* Competency-based practical experience aimed at increasing the proficiency of the students in assigned positions. Prior application necessary. Permission of instructor and supervisor.

**CMJN 465. Editorial Writing.** (3-0-3); on demand. *Prerequisite:* *CMA 166 and CMJN 201.* Purposes and methods of editorial writing, including ethics, and values.

**CMJN 476. Special Problems.** (1 to 3 hrs); I, II, III. *Prerequisite:* *CMA 166 & CMJN 201.* Research on an original project with appropriate written report, within a subject area. Permission of instructor.

**CMJN 491. Law and Ethics of the Press.** (3-0-3); II. *Prerequisite:* *Senior standing.* An examination of law as it affects print and broadcast media and advertising.

**CMJN 499C. Journalism Senior Seminar.** (3-0-3); II. *Senior standing and completion of a minimum of 30 hours toward the Area of Concentration in Communications.* This course is designed for students seeking careers in print journalism. It will provide them with information and instruction in skills self-assessment, job procurement processes and procedures, career field expectations and requirements, and production of a professional resume and portfolio. *This course satisfies the integrative component for general education.*

**CMJN 504. School Publications.** (3-0-3); on demand. *Senior standing.* Advancement of students in the production of school newspapers, yearbooks, and magazines; includes a complete review of journalism principles.

**CMJN 539. Cooperative Education.** (1 to 3 hrs); I, II, III. The Area of Concentration in Communication offers cooperative study courses allowing students to alternate semesters of on-campus studies with periods of related work experience. Prior application necessary. Permission of instructor.

**CMJN 560. Reviews and Criticism.** (3-0-3); on demand. *Prerequisite:* *Senior standing.* Evaluating and writing critical reviews of drama, literature, art, music and restaurants for the mass media.

**CMJN 565. Public Opinion and News Media.** (3-0-3); on demand. *Prerequisite:* *Senior standing.* Cultural, social and psychological nature of public opinion and its influence on mass media.

## Computer Information Systems

**CIS 101. Computers for Learning.** (3-0-3); I, II, III. Students will explore the practical aspects of the current computing environment learning generalized software skills including word processing, spreadsheets, data management, basic telecommunications, and presentation skills. Emphasis will be on learning strategies that will empower students to adapt to a wide variety of applications software and computer knowledge that will prepare them to participate in and contribute to a technology-oriented society. *This course satisfies the required core-computer competency for general education.*

**CIS 139. Cooperative Education I. (1 to 8 hours); on demand.** Permission of department chair required. Work experience in the computer field in a position approved through an application process. Not available for option credit.

**CIS 200. Logic and Structured Design of Computer Programs. (3-0-3); I, II. Prerequisite: MATH 152 or permission of instructor.** This course is intended to introduce computer information systems students to the logic of programming languages in general rather than to a specific code. The course presents tools and techniques in such a way that they may be understood by relatively unsophisticated students who will perfect their programming abilities later in specific programming language courses.

**CIS 201. Introduction to Computers. (3-0-3); I, II, III.** An exploration of fundamental computer concepts and applications. The importance, versatility, persuasiveness, and ethical concerns of computers in our society. Fundamental word processing, spreadsheet, and database tasks.

**CIS 202. Object-Oriented Programming in Visual BASIC. (3-0-3); I, II, III. Prerequisite: CIS 200.** This is a beginning programming course that utilizes Visual Basic in an interactive windows application environment. Visual Basic is a powerful language using structured programming techniques to develop graphical user interface (GUI) applications. The course is built around tutorials which teach students how to develop applications they are likely to encounter in the workplace.

**CIS 205. Fundamentals of C/C++ Programming. (3-0-3); I, II, III. Prerequisites: CIS 200.** This course will develop a good foundation in programming using some of C and C++'s advantages and language features. A careful and steady progression of programming skills and concepts are developed so that students can successfully develop and write programs early in the course. Visual C++ will be used as a tool for developing programs.

**CIS 211. Microcomputers. (3-0-3); I, II, III. Prerequisite: CIS 101.** Hardware and software of microcomputers. In-depth study of microcomputer operating system and applications of word processing, spreadsheets, and databases.

**CIS 215. Structured Programming COBOL I. (3-0-3); I. Prerequisite: CIS 200.** Practical business applications programming using COBOL language. Terminal input and printer output used.

**CIS 239. Cooperative Education II. (1 to 8 hours); on demand.** Permission of department chair required. Work experience in the computer field in a position approved through an application process. Not available for option credit.

**CIS 260. Structured FORTRAN Programming I. (3-0-3); on demand. Prerequisite: CIS 200.** Introduction to structured FORTRAN programming language. Application of mathematical techniques to problems in programming business, engineering, management, and modeling. Examples employed to provide comprehensive knowledge of the language.

**CIS 303. Data Structures. (3-0-3); on demand. Prerequisites: CIS 200, 205, 215, or CIS 260.** Key concepts of data definitions, such as lists, stacks, and queues. Recursion, graphs and trees, sorting and searching. Structured program design, elementary data structures and the study of algorithms as tools of program design. (See MATH 303.)

**CIS 305. Object-Oriented Programming Visual C++. (3-0-3); I, II. Prerequisite: CIS 205.** C++ improves the way that programs are designed and written through the use of class and object oriented programming. The concepts build upon each other as the need to learn about them is demonstrated through

numerous real-life problem assignments. Visual C++ will be used as a tool for developing programs.

**CIS 311. Introduction to Management Information Systems. (3-0-3); I, II. Prerequisites: CIS 200, ACCT 281.** A study to prepare managers for the successful implementation and use of information technology for organizations. This course recognizes and covers the strategic role that information systems can play in gaining competitive advantages in the market place.

**CIS 315. Structured Programming COBOL II. (3-0-3); II. Prerequisites: CIS 215.** Advanced structured computer programming using COBOL. Tape and disk file structures and processing emphasized.

**CIS 325. Analysis and Design of Information Systems. (3-0-3); II. Prerequisite: CIS 205, CIS 215, or CIS 260.**

Information systems analysis, design, and implementation. Feasibility studies, economic cost comparisons, the tools and techniques of systems analysis and design including CASE tools.

**CIS 339. Cooperative Education III. (1 to 8 hours); on demand.** Permission of department chair required. Work experience in the computer field in a position approved through an application process. Not available for option credit.

**CIS 399. Selected Workshop Topics. (1 to 4 hrs.); on demand.** Workshops on various Computer Information Systems subjects will be presented periodically to supplement the basic course offerings in Computer Information Systems. Credit toward degree programs must be approved by the student's advisor.

**CIS 426. Database Management Systems. (3-0-3); II. Prerequisite: CIS 325.** Database structures, creation, modification, processing, and physical representation.

**CIS 430. Advanced Topics in Information Science. (3-0-3); on demand. Prerequisites: CIS 202, CIS 205, CIS 215 or CIS 260.** This course is intended to introduce students to the idea of Decision Support Systems (DSS), Expert Systems (ES), Executive Information Systems (EIS), Artificial Intelligence (AI), Modeling and other leading edge concepts in Information Science.

**CIS 439. Cooperative Education IV. (1 to 8 hours); on demand.** Permission of department chair required. Work experience in the computer field in a position approved through an application process. Not available for option credit.

**CIS 440. Telecommunications and Networking. (3-0-3); I. Prerequisite: CIS 200, CIS 350.** Fundamental concepts of the hardware and software used to achieve telecommunications and data communications in a computer environment. Topics will include LANS, WANS, distributed networks, the internet, intranets, and management issues related to the analysis and application of these systems.

**CIS 442. Local Area Network Administration. (3-0-3); I, II. Prerequisite: CIS 211 or permission of instructor.** Provides a foundation in the concepts and terminology of computer intercommunications and networking; relies on a hands-on approach as the primary teaching method to focus on grasping communications terminology and studying specific network components. Hands-on tutorials for managing and operating various local area networks are used in the course.

**CIS 476. Special Problems in Computer Information Systems. (1 to 3 hrs.); on demand. Prerequisites: CIS 202, 205, or CIS 260 and CIS 325.** This course is an independent study of Computer Information Systems problems of special interest. Students must present in writing a suggested problem and justification for the study prior to registration. Each request

will be considered on its own merit in relation to the special needs of the student.

**CIS 499C. Systems Development Project. (3-0-3); I, II, III.**  
*Prerequisites: Senior standing, CIS 200, CIS 205 or CIS 215, CIS 325, and pre or co-requisite CIS 426.* Using an assigned project from a case or a working environment situation, students will, individually or in teams, analyze the system and develop a computer application using the structured systems development life cycle. *This course satisfies the integrative component for general education.*

## Construction Technology

**CON 101. Introduction to Construction Technology. (3-0-3); I.** Discussion of various aspects of the construction industry including typical building methods, cost factors, and personnel requirements. Includes residential and commercial building.

**CON 202. Structural Design. (2-2-3); I.** Review of typical structural design methods with applied calculation using free body diagrams and other static load methods.

**CON 203. Construction Methods and Equipment. (2-2-3); I.** An investigation of various construction and building techniques, including traditional and modified methods. Laboratory will include model and prototype development.

**CON 204. Codes, Contracts, and Specifications. (3-0-3); II.** Exposure to local and state codes and architectural specifications necessary to meet contract requirements. Introduction to various code organizations and file systems.

**CON 205. Estimating and Construction Costs. (3-0-3); II.** Estimating cost procedures typically used for bid specifications. Current and projected material and construction cost accounting procedures.

**CON 206. Construction Management. (3-0-3); II.** Supervisory and administrative procedures typical of the construction industries. Personnel requirements and labor arrangements necessary for building contractors.

**CON 210. Surveying I. (2-2-3); I. Prerequisites: MATH 141 or higher and GCT 103.** A study of modern surveying methods and equipment, field and office procedures, and surveying applications in the planning design, layout, and construction of our physical environment and infrastructure.

**CON 303. Material Properties and Testing. (2-2-3); II.**  
*Prerequisites: MATH 152 or higher and MFT 186.* An organized investigation of engineering materials, including their classification, properties, and means of testing to determine their properties. The application of materials to manufactured and constructed products and the effects of manufacturing processes and in-service stress on materials will be considered.

**CON 310. Surveying II. (2-2-3); II. Prerequisites: CON 210 or GEOS 276.** A study of advanced surveying applications in the planning, design, layout, and construction of our physical environment and infrastructure, with emphasis placed on the development of effective strategies to solve modern surveying problems.

## Criminology

**CRIM 201. Sociology of Criminology. (3-0-3); on demand.** An analysis of the theoretical and philosophical foundations of the American correctional system and an examination of its role in society. Contemporary treatment methods for adult and juvenile offenders will be surveyed.

**CRIM 210. The Sociology of Deviance. (3-0-3); I. Prerequisites: SOC 101 or consent of instructor.** (See SOC 210).

**CRIM 306. Juvenile Delinquency. (3-0-3); I, II.**

*Prerequisites: Three hours sociology general education or consent of instructor.* (See SOC 306).

**CRIM 345. Correctional Institutions. (0-3-0); III.**

*Prerequisite: SOC/CRIM 210 and junior standing; or consent of instructor.* This course will familiarize students with a wide range of correctional settings through daily travel to correctional facilities throughout Kentucky and neighboring states. The institutions include local, state, and federal correctional facilities for juveniles and adult offenders. Students will be required to integrate corrections literature with their experiential observations.

**CRIM 388. History of Corrections. (3-0-3); II.**

*Prerequisite: SOC/CRIM 210 or consent of instructor.* This course provides the student with a background knowledge of the development of ideas and actions taken against those people who have been the objects of society's punishment.

**CRIM 399. Selected Topics. (1 to 3 hrs.); on demand.**

Unique topics and learning experiences that supplement regular course offerings. May be repeated in additional subject areas.

**CRIM 401. Criminology. (3-0-3); on demand. Prerequisite: SOC/CRIM 210 and three additional hours of CRIM; or consent of instructor.** (See SOC 401).

**CRIM 450. Research Methodology. (3-0-3); I, II, III.**

*Prerequisite: Three hours sociology general education and six additional hours of SOC/CRIM; or consent of instructor.* (See SOC 450).

**CRIM 476. Special Problems. (1 to 3 hrs.); I, II, III.**

*Prerequisite: Three hours sociology general education and nine additional hours of SOC/CRIM; or consent of instructor.* Arranged with the department to study some particular aspect of the field of corrections.

**CRIM 490. Practicum in Criminology. (0-0-6); I, II, III.**

*Prerequisite: SOC/CRIM 210, nine additional hours CRIM, and senior or graduate student standing; or consent of instructor.* The course consists of practical experience in a jail, detention home, juvenile or adult correctional institution, juvenile or adult probation and parole agency, or other related agency. A minimum of 20 hours per week will be spent at the assigned agency.

**CRIM 491. Senior Seminar. (1-0-1); I, II, III.** This course is required for all criminology emphasis majors.

**CRIM 499C. Seminar in Criminal Behavior. (3-0-3); II.**

*Prerequisite: SOC/CRIM 401 or consent of instructor.* Specific problems and issues concerning criminal behavior examined in depth. Includes analysis of the causes of particular kinds of behavior, examination of methods of control, and consideration of current approaches to rehabilitation. *This course satisfies the integrative component for general education.*

**CRIM 510. Law of Corrections. (3-0-3); I. Prerequisite: SOC/CRIM 210 and three additional hours CRIM; or consent of instructor.** An analysis of civil law in the United States related to the protection of society, the accused and adjudicated offender, and the administration of justice.

**CRIM 515. Correctional Counseling. (3-0-3); II.**

*Prerequisite: SOC/CRIM 210, social work major, or consent of instructor.* The basic concepts and principles involved in interviewing, counseling, and group therapy which are employed in correctional facilities.

## Economics

**ECON 101. Introduction to Economics. (3-0-3); on demand.** Introduction to the structure and policies of the American mixed economic system including an explanation of how a price-market system allocates resources and distributes goods, with an introductory comparison to other economic structures. This course cannot be used to satisfy the requirements for the B.B.A.; not open to those who have had ECON 201, 202, or equivalent. *This course satisfies area studies-social and behavioral sciences for general education.*

**ECON 102. Economic History of the United States. (3-0-3); on demand.** A study of the economic forces and institutions directly responsible for the development of the United States as a major economic power. The economic transformation of the United States from an agricultural to an industrial-service nation. Problems of income distribution, labor-technology interaction, and mixed capitalism. *This course satisfies area studies-social and behavioral sciences for general education.*

**ECON 201. Principles of Macroeconomics. (3-0-3); I, II.** An examination of what determines the total output of goods and services, the rate of unemployment, the price level, the rate of inflation, rates of interest, and foreign exchange rates within a mixed price-market economic system. *This course satisfies area studies-social and behavioral sciences for general education.*

**ECON 202. Principles of Microeconomics. (3-0-3); I, II.** A study of the principles of consumer and firm behavior within a capitalistic price-market system. It examines the manner of production, factor markets, and degrees of competition. Also, the effects of government regulation and market intervention are analyzed. *This course satisfies area studies-social and behavioral sciences for general education.*

**ECON 300. Quantitative Methods in Business and Economics. (3-0-3); on demand. Prerequisites: MATH 152, MATH 354, ECON 202 or equivalent.** Application of mathematical and statistical techniques to business, the market systems, and the study of economics and finance. (See MNGT 300.)

**ECON 302. Labor Economics. (3-0-3); on demand. Prerequisite: ECON 101, or higher.** Labor management relations, the labor movement, labor legislation, government control and regulation, economic inequality, standards of living, and industrial conflicts.

**ECON 303. Introduction to Econometrics. (3-0-3); on demand. Prerequisite: ECON 300 or the consent of the instructor.** Application of statistical methods to economic and managerial theories. These methods are used to both test the theories with observed data and to estimate the nature and strength of the relationship predicted by the theories.

**ECON 305. Comparative Economic Systems. (3-0-3); on demand. Prerequisites: ECON 101, or higher.** A study of influential theories of the major economic systems: Capitalism, Marxism, and Communism. Descriptive analysis of the operation of the corresponding economies.

**ECON 341. Public Finance. (3-0-3); on demand. Prerequisite: ECON 101, or higher.** Public expenditures; public revenue; taxation; public credit; financial administration of government.

**ECON 342. Money and Banking. (3-0-3); on demand. Prerequisite: ECON 101, ECON 201, or equivalent.** Origin, development and functions of money; banking functions and processes; the Federal Reserve System and monetary policy. (Crosslisted as FIN 342.)

**ECON 350. Microeconomic Theory. (3-0-3); on demand. Prerequisites: ECON 101 or higher.** Analysis of the behavior of the household and the firm, with emphasis on the role of prices in allocating resources, organizing production, and distributing goods and services.

**ECON 389. Honors Seminar in Economics. (3-0-3); on demand. Prerequisite: Membership in University Honors Program.** Analysis of contemporary economic problems and policy alternatives. Topics may vary each semester.

**ECON 399. Selected Workshop Topics. (1 to 4 hrs.); on demand.** Workshops on various economic subjects will be presented periodically to supplement the basic course offerings in economics. Credit toward degree programs must be approved by the student's advisor and the department chair.

**ECON 401. Environmental Economics. (3-0-3); on demand. Prerequisites: ECON 101, or higher.** Analysis of the economic reasons contributing to environmental degradation and exploration of economic policies to reduce this problem.

**ECON 403. Urban and Regional Economics. (3-0-3); on demand. Prerequisites: ECON 101, or higher.** Analysis of location patterns, land use, urban and regional structure and growth, and development strategies. Emphasis is placed on contemporary problems and possible solutions.

**ECON 410. History of Economic Thought. (3-0-3); on demand. Prerequisites: ECON 101, ECON 102 or ECON 201 or equivalent.** The origin and development of economic theories from the Mercantilist through modern times.

**ECON 447. International Economics. (3-0-3); on demand. Prerequisites: ECON 101, 201 or 202, or equivalent.** International trade theory, international monetary relationships, and the balance of payments. Emphasis is placed on contemporary problems and possible solutions.

**ECON 451. Macroeconomics and Stabilization Policy. (3-0-3); on demand.** This course examines and explains, at the intermediate level, what determines the level of output in the economy and the rate of growth in the level of output, as well as the factors that determine the unemployment rate, the price level, the rate of inflation, the interest rate, and foreign exchange rates. In addition, it examines the effects of government policies, especially monetary and fiscal policy, on the above factors.

**ECON 455. Economic Development and Growth. (3-0-3); on demand. Prerequisites: ECON 101, or higher.** Classical and modern theories of growth and development and their application in both advanced and underdeveloped nations.

**ECON 476. Special Problems in Economics. (1 to 3 hrs.); on demand. Prerequisites: Completion of 21 hrs. in economics and finance combined, and prior consent of the department chair.** This course is an independent study of economic problems of special interest. Students must present in writing a suggested problem and justification for the study prior to registration. Each request will be considered on its own merit in relation to the special needs of the student.

**ECON 499. Selected Workshop Topics. (1 to 4 hrs.) on demand.** Workshops on various economic subjects will be presented periodically to supplement the basic course offerings in economics. Credit toward degree programs must be approved by the student's advisor and the department chair.

## Education (Adult and Higher Education)

**EDAH 102. Study Skills. (1-0-1); I, II (Each 9-week period).** Course is designed to provide special training in the skills and techniques necessary for college level study.

**EDAH 199. Selected Topics. (1 to 3 hrs.); I, II, III.** Investigation of specific problem areas in the field of study. May be repeated in additional subject areas.

**EDAH 299. Selected Topics. (1 to 3 hrs.); on demand.** Workshop for specifically designated task orientation in education. May be repeated in additional subject areas.

**EDAH 599. Selected Topics. (1 to 3 hrs.); I, II, III.** Workshop for specifically designated task orientation in education. May be repeated in additional subject areas. Maximum of six semester hours may be earned under this course number.

## Education (Early Childhood)

**EDEC 125. Introduction to the Early Childhood Profession. (3-0-3); I.** A focus on the principles of child growth and development from birth through age five; and observing and recording children's behavior, strategies to manage an effective program operation, and maintaining a commitment to professionalism. *This course is only open to those in the Child Development Associate Program - CDA.)*

**EDEC 150. Skills for Preschool Teachers. (3-0-3); II.** A study of classroom skills needed by preschool teachers to promote the physical, intellectual, social and emotional development of young children. (This course is only open to those in the Child Development Associate Program--CDA.)

**EDEC 199. Workshop. (1 to 3 hrs.); I, II, III.** Workshop for specifically designated task orientation in early childhood education. Conferences with instructor by arrangement. Maximum of six semester hours may be earned under this course number.

**EDEC 276. Independent Study. (1 to 3 hrs.); I, II, III.** Directed study of specific areas in early childhood education. Conferences with instructor by arrangement. Maximum of six semester hours may be earned under this course number.

**EDEC 399. Workshop. (1 to 3 hrs.); I, II, III.** Continuation of EDEC 199.

**EDEC 470. Research Problems. (1 to 3 hrs.); I, II, III.** Independent research study of a professional nature. Conferences with instructor by arrangement. Maximum of six semester hours may be earned under this course number.

**EDEC 527. The Pre-School Child. (3-1-3); I, III.** Principles of growth and development from prenatal period to age six. Focuses attention on learning experiences for nursery and kindergarten age children. (Laboratory experiences are an integral part of course.)

**EDEC 528. Activities and Materials in Early Childhood. (3-1-3); II, III.** Investigates needs and interests of early childhood and provides opportunities to explore objectives, materials, and techniques of instruction for this age group. (Laboratory experiences are an integral part of course.)

**EDEC 529. Practicum in Early Childhood Education. (1-4-4); I, II, III.** *Prerequisites: EDEC 527, 528, and admission to teacher education program.* Students are assigned to pre-school classrooms for observation, participation, and teaching. On-campus seminars are held weekly. (Application made through coordinator of professional laboratory experiences.)

**EDEC 599. Workshop. (1 to 3 hrs.); I, II, III.** *Prerequisites: Upper division or graduate classification.* Workshop for

specifically designated task orientation in education. May be repeated in additional subject areas. Maximum of six semester hours may be earned under this course number.

## Education (Early Elementary--P-5)

**EDEE 305. Learning Theories and Practices in Early Elementary. (3-0-3).** *Prerequisites: PSY 154, EDF 207, EDF 211.* A comprehensive study of contemporary developments in the field of early elementary education including the applications of learning theories to classroom practices; the historical and philosophical origins of current curricular content and practices in early education; and an examination of research findings; study of the impact of familial, economic, and social factors on school performance of learners in the P-5 range.

**EDEE 321. Teaching Math in Early Elementary Grades. (3-0-3);** *Prerequisites: Admission to the Teacher Education Program, Math 231 and EDEM 330.* Effective presentation of essential number concepts to the learner, child centered emphasis on functional arithmetic and its application. (Laboratory experiences in early elementary grades are an integral part of this course.)

**EDEE 322. Teaching Social Studies in the Early Elementary Grades. (3-0-3).** *Prerequisites: Admission to the Teacher Education Program, EDEM 330.* This course will explore the scope and sequence of understandings, attitudes, and skills taught in early elementary social studies programs; and will examine various methodologies used in the early elementary grades of P-5. (Clinical and field experiences are an integral part of this course.)

**EDEE 323. Language Arts for Early Elementary. (3-0-3).** *Prerequisites: Admission to the Teacher Education Program, EDEE 327 and EDEM 330.* Role of language arts in the early elementary curriculum. Diagnosis of children's communications skills, needs, and subsequent teaching techniques are central to the course. Areas of emphasis include language development, listening and thinking skills, speaking, written expression, spelling, and handwriting. (Clinical and field experiences are an integral part of this course.)

**EDEE 327. Literature and Materials for Young Readers. (3-0-3).** A survey of children's literature from oral tradition through contemporary times, including all types of literature and media appropriate for Early Elementary P-5. Emphasis is on criteria for evaluation, selection, and use of books and materials as related to the developmental needs and interests of children.

**EDEE 331. Reading for Early Elementary Teachers. (3-0-3).** *Prerequisites: EDF 207 and 211, EDEM 330, and Admission to Teacher Education Program.* Material and methods of teaching basic reading skills in grades P-5. Students are taught how to teach subskills of reading readiness, vocabulary development, comprehension, and study skills. Assessment and interpretation of reading abilities will be utilized in designing classroom instruction. (Clinical and field experiences are an integral part of this course.)

**EDEE 423. Supervised Student Teaching Practicum. (4 to 12 hrs.)** *Prerequisites: Completion of requirements for admission to the professional semester.* Student is assigned to student teaching center during which time observation, participation, and student teaching are done. The student teaching must be done in nonadjacent grades splitting the six week period between two of the grades. Special conferences with supervising teacher, attendance, and participation in faculty meetings and out-of-school activities required.

## Education (Elementary)

### EDEL 110. Developmental Reading I. (2-2-3); I, II.

Provides diagnostic independent guided improvement of reading skills. Vocabulary and improved comprehension skills are stressed.

### EDEL 111. Developmental Reading II. (2-2-3); I, II.

*Prerequisite: EDEL 110.* Continuation of Developmental Reading I.

### EDEL 112. Reading English as a Second Language. (2-2-3);

I, II, III. Individualized program for teaching vocabulary and reading skills to the non-English speaking student.

### EDEL 199. Workshop. (1 to 3 hrs.); I, II, III.

Workshop for specifically designated task orientation in elementary education. Maximum of six semester hours may be earned under this course number.

**EDEL 250. Practicum. (3 hrs.); I, II, III.** A Focus on the development and demonstration of skills necessary to nurture and develop children's physical, social, emotional and intellectual growth in a child development framework. Experiences include placement in either a classroom or simulated classroom laboratory. (*This course is open only to those candidates enrolled in CDA training.*)

### EDEL 276. Independent Study. (1 to 3 hrs.); I, II, III.

Directed study of specific areas in elementary education. Topic must be approved in advance by instructor. Conferences with instructor by arrangement.

**EDEL 301. Media Strategies. (2-2-2); I, II.** Introduction to educational media. Principles of utilization and hands-on experience with hardware and software. Basic production projects also required.

**EDEL 333. Fundamentals of Elementary Education. (3-1-4); I, III.** *Prerequisites: Admission to teacher education program and approval of head of the department.* Introduction to content areas of the elementary curriculum, including teaching methods and materials. Emphasis is placed on the role of special teachers in the total school program.

### EDEL 470. Research Problems. (1 to 3 hrs.); I, II, III.

Independent research study of a professional nature. Conferences with instructor by arrangement. Maximum of six semester hours may be earned under this course number.

**EDEL 516. Educational Computing. (3-0-3); I, II, III.** The development of competencies in the use of microcomputers for instruction, management, information processing, computer assisted instruction, and practical high-level programming applications through programming assignments. Hardware and operating systems are covered. Designed primarily for students without previous data processing instruction (cross listed with CIS 516).

**EDEL 599. Workshop. (1 to 3 hrs.); I, II, III.** *Prerequisite: Upper division or graduate classification.* Workshop for specifically designated task orientation in education. May be repeated in additional subject areas. Maximum of six semester hours may be earned under this course number.

## Education (Early Elementary and Middle Grades)

### EDEM 330. Foundations of Reading. (3-0-3); I, II, III.

*Prerequisite: 24 semester hours including EDF 207 and 211, EDSP 230 and EDEE 305 or EDMG 306 (Orientation/Exploration, Preparation Level Industrial Education and Vocational Family and Consumer Science students are exempt from prerequisites not required in their program).* An

explanation of the developmental aspects of the reading process in grades P-9 in terms of instruction, assessment, materials, and classroom organization.

### EDEM 426. Pre-Student Teaching Seminar. (2-0-2); I, II.

*Prerequisite: Admission to the professional semester.* A group seminar to address current issues and topics in education. Taken during the professional semester.

## Education (Middle Grades--5-9)

### EDMG 306. Development and Learning in Middle Grades.

(3-0-3); I, II. *Prerequisite: EDF 207, EDF 211, and PSY 154.* A study of the principles of learning and motivation as they are applied in the middle grades.

### EDMG 332. Reading Strategies for the Middle Grade

Teacher. (3-0-3); I. *Prerequisites: EDF 207 and 211, EDEM 330, and admission to the Teacher Education Program. (Orientation/Exploration, Preparation Level Industrial Education and Vocational Family and Consumer Science students are exempt from prerequisites not required in their program. EDEM 330 is a prerequisite for all students).* An explanation and evaluation of materials and methods of teaching the advanced reading skills in grades 5-9. The students are taught how to teach the skills needed for comprehension, study skills, and content area reading. Assessment and interpretation of reading abilities will be utilized to design classroom instruction. (Clinical and field experiences in grades 5-9 are an integral part of this course.)

**EDMG 341. Teaching Math in Middle Grades. (3-0-3); I, II, III.** *Prerequisites: MATH 231, EDEM 330 and admission to the Teacher Education Program.* Presentation of essential number concepts for middle grade learners with emphasis upon functional arithmetic and its application. The course will examine various methodologies used in the middle grades. (Clinical and field experiences in grades 5-9 are an integral part of this course.)

**EDMG 342. Teaching Social Studies in the Middle Grades. (3-0-3); I, II.** *Prerequisite: Admission to the Teacher Education Program, EDEM 330.* This course will explore the scope and sequence of understandings, attitudes, and skills taught in middle grade social studies programs; and will examine various methodologies used in the middle grades of 5-9. (Clinical and field experiences in grades 5-9 are an integral part of this course.)

### EDMG 343. Language Arts in Middle Grades. (3-0-3); II.

*Prerequisites: Admission to the Teacher Education Program, EDF 207 and 211, EDSP 230, EDMG 306 and EDMG 347.* Role of Language Arts in the middle grades curriculum. Diagnosis of children's communication skills, needs, and subsequent teaching techniques are central to the course. Areas of emphasis include language development, listening and thinking skills, speaking, written expression, spelling, and handwriting. (Laboratory experiences are an integral part of this course.)

### EDMG 347. Literature and Materials for the

Preadolescent. (3-0-3); I, III. A survey of literature for preadolescents in which students will examine materials across the different genres as well as various types of media appropriate for levels of certification in grades 5-9. Emphasis on criteria for evaluation and selection of materials, reading interest, needs, and abilities of preadolescence.

**EDMG 446. Supervised Student Teaching. (4 to 12 hrs.); I, II.** *Prerequisite: Completion of requirements for admission to the professional semester.* Placement in a student teaching center during which time observation, participation, and student

teaching are done. Special conferences with the supervising teacher, attendance, and participation in faculty meetings and co-curricular activities are also required.

## Education (Foundations)

**EDF 207. Foundations of Education. (3-0-3); I, II, III.**

Orientation for students considering teaching as a career. Course will survey the scientific, historic, philosophic, and social foundations of the teaching profession. (Laboratory experiences an integral part of course.)

**EDF 211. Human Growth and Development. (3-0-3); I, II, III. Prerequisite: PSY 154.** Survey of developmental patterns from birth to adolescence and their implications for elementary and secondary teachers. (Laboratory experiences an integral part of course.)

**EDF 311. Learning Theories in the Classroom. (3-0-3); I, II, III. Prerequisite: Admission to teacher education program.** Study of the principles of learning and motivation as they are applied in the classroom. (Laboratory experiences an integral part of course.)

**EDF 360. History of Education. (3-0-3).** Education in ancient, medieval, and modern periods; early American backgrounds; early campaigns for improvement of instruction and teacher training; development of present practices; great educators of each period and their contribution.

## Education (Guidance and Counseling)

**EDGC 105. Career Planning. (2-0-2); I, II.** Systematic information and guidance in career development provided which assists the student in making a realistic career decision consistent with needs, abilities, attitudes, and personal goals.

**EDGC 566. Introduction to Vocational Rehabilitation Services. (3-0-3); I, III.** History of vocational rehabilitation movement, legislative efforts, and impact; overview of rehabilitation process, roles of rehabilitation professionals in various rehabilitation settings, discussion of values and ethics, and examination of professional organizations for rehabilitation personnel.

**EDGC 567. Rehabilitation of Special Groups. (3-0-3); I, III. Prerequisite: EDGC 566 or permission of instructor.** In-depth study of various target populations in need of rehabilitation services, including physically disabled, public offenders, delinquents, drug addicts, aged, mentally retarded, and educationally, socially, and culturally disadvantaged.

**EDGC 599. Workshop. (1 to 3 hrs.); I, II, III.** Workshop for specifically designated task orientation in education. May be repeated in additional subject areas. Maximum of six semester hours may be earned under this course number.

## Education (Secondary)

**EDSE 276. Independent Study. (1 to 3 hrs.); I, II, III.** Directed study of specific areas in secondary education. Conferences with instructor by arrangement. Maximum of six semester hours may be earned under this course number.

**EDSE 312. Teaching Skills and Media. (2-2-3); I, II. Prerequisites: Admission to teacher education program and EDF 311.** Introduction to classroom teaching skills and methods. The instructional process is covered with emphasis upon lesson preparation and presentation, including mediation of instruction; long-term and short-term instructional planning; human interaction skills. (Clinical experiences are an integral part of this course.)

**EDSE 333. Field Experiences in Secondary Classrooms. (1-1-2); I, II. Prerequisite: Admission to teacher education program.** The course provides students with opportunities to develop the pedagogical knowledge and skills required to perform successfully the tasks of planning, implementing, and evaluating instruction.

**EDSE 399. Selected Topics. (1 to 3 hrs.); I, II, III.** Investigation of specific problem areas in the field of study. May be repeated in additional subject areas.

**EDSE 416. Student Teaching. (12-0-12); I, II. Prerequisite: Admission to professional semester.** Classroom component comprised of preparation for student teaching followed by placement in a student teaching center during which time observation, participation, and student teaching are done. Special conferences with supervising teacher, attendance and participation in faculty meetings, co-curricular activities, and the National Teacher Exam required. (Application made through coordinator of professional laboratory experiences.)

**EDSE 470. Research Problems. (1 to 3 hrs.); I, II, III.** Independent research study of a professional nature. Conferences with instructor by arrangement. Maximum of six semester hours may be earned under this course number.

**EDSE 499C. Teacher in Today's Schools. (2-0-2); I, II. Prerequisite: Admission to professional semester.** An application of previous learning in development of an instructional unit taught during student teaching; an orientation to student teaching experience; miscellaneous activities relating to areas of teacher concerns, i.e., school law, pupil accounting, professional organizations, principles of classroom organization and management; and human interaction skills. (Laboratory experiences are an integral part of this course.) *This course satisfies the integrative component for general education.*

**EDSE 516. Educational Data Processing. (3-0-3); II.** Basic concepts pertaining to unit-record equipment and computers. Applications in education, research, and administration. designed primarily for students without previous data processing instruction and batch-process computing using PRIME 550/750 computing systems.

**EDSE 599. Selected Topics. (1 to 3 hrs.); I, II, III. Prerequisites: Upper division or graduate classification.** Workshop for specifically designated task orientation in education. May be repeated in additional subject areas. Maximum of six semester hours may be earned under this course number.

## Education (Special)

**EDSP 199. Workshop. (1 to 3 hrs.); I, II, III.** Workshop for specifically designated task orientation in special education. May be repeated in additional subject areas. Maximum of six semester hours may be earned under this course number.

**EDSP 230. Education of Exceptional Children. (3-0-3); I, II. Prerequisite: PSY 154.** Procedures for identification, education, and treatment of exceptional children--the gifted, those with low intelligence, and handicapped--including behavioral deviations.

**EDSP 231. Field Experiences. (0-2-1); I.** Involves the student in on-site experiences in a variety of schools, institutions, and agencies providing services to the trainable mentally handicapped.

**EDSP 235. Including Students with Diverse Needs in the Classroom. (3-1-3); II, III in even years. Prerequisite: EDSP 230.** This course will develop the skills and information needed

by teachers to build inclusive learning communities within the schools. Crucial to achieving this end is: 1) the development of the skills needed to work with colleagues to create a classroom environment that accommodates the full range of diversity found in today's schools, and 2) a working knowledge of the legal requirements related to meeting the needs of diverse students.

**EDSP 276. Independent Study.** (1 to 3 hrs.); I, II, III. Independent study of a professional problem in special education.

**EDSP 320. Introduction to Corrective Speech.** (3-0-3); I. Introductory course in speech correction for classroom teacher. (Same as SPCH 320.)

**EDSP 332. Teaching the Exceptional Student.** (2-2-2); I, II. *Prerequisite: Admission to Teacher Education Program.*

Describes physical and behavioral characteristics of exceptional students and their educational needs. Describes social and legal responsibilities regarding exceptional persons and reviews educational practices and appropriateness for specific exceptional behavior.

**EDSP 350. Characteristics of Individuals with Mental Retardation and Orthopedic Handicaps.** (2-2-3); I, II, III.

*Prerequisite: EDSP 230 or appropriate introductory course.*

Biological, physical, etiological, psychological, and educational characteristics of individuals demonstrating significant deviations in mental or physical behavior. The likely needs of these mentally retarded and orthopedically impaired individuals discussed in light of their presenting problems.

**EDSP 356. Applied Behavior Analysis.** (2-2-3); I, III in odd years. *Prerequisites: EDSP 230 and EDSP 350. Course is part of the MSD block and all block courses must be taken concurrently.*

Provides student with an introduction to applied behavior analysis procedures. The design and implementation of specific strategies that will support the establishment of effective instructional environments will be examined. Topics will include behavior management and training strategies, data based programming, and field-based teacher research methods.

**EDSP 360. Characteristics of Individuals with Learning Disabilities and Behavior Disorders.** (2-2-3); I, III.

*Prerequisite: EDSP 230 or appropriate introductory course.*

Biological, physical, etiological, psychological, and educational characteristics of individuals demonstrating significant deviations in learning and behavior disorders. The likely needs of learning disabled and behavior disordered individuals discussed in light of their presenting problems.

**EDSP 370. Assessment of Students with Moderate and Severe Disabilities.** (3-0-3); I, III in odd years. *Prerequisite: EDSP 350. Co-requisite: EDSP 370.* Involves procedures for assessment of the behavioral and educational performance of individuals with moderate to severe disabilities including task analysis, sequencing behavioral skills and designing individual instructional programs.

**EDSP 371. Field Experiences in Assessment of Students with Moderate and Severe Disabilities.** (0-2-1); II, III in odd years. *Prerequisite: EDSP 350. Co-requisite: EDSP 370.* This field placement in programs serving students with moderate and severe disabilities will provide the student with an opportunity to understand the relevant characteristics of this group and apply the assessment strategies being studied in the co-requisite.

**EDSP 372. Transition to Adult Life.** (3-3-3); II, III in odd years. *Prerequisites: EDSP 230 and EDSP 350.* Prepares teachers of students with moderate and severe disabilities to effectively plan for and support students moving from school to adult life. This entails skill development in the area of planning processes, vocational training, support development, developing

functional skills and preparation of Individualized Transition Plans (ITPs).

**EDSP 373. Curriculum for Students with Moderate and Severe Disabilities.** (3-0-3); I, III in even years. *Prerequisite: EDSP 370.* Examines the components of functional curriculums for students with moderate and severe disabilities. Also examines strategies to manage a program of community-based instruction, to support the inclusion of students with moderate and severe disabilities in a variety of school and community settings and to conduct authentic assessment of student learning.

**EDSP 374. Teaching Students with Moderate and Severe Disabilities.** (3-0-3); I, III in even years. *This course is part of the MSD block and all block courses must be taken concurrently.* Examines the critical components of an effective educational program for students with moderate and severe disabilities including the development of Individual Education Plans (IEPs), techniques for effective instruction, strategies for behavior management, approaches to systematic data based instruction, collaboration with families, and interdisciplinary collaboration.

**EDSP 375. Practicum in Education of Students with Moderate and Severe Disabilities.** (0-4-2); I, III in even years. *This course is part of the MSD block and all block courses must be taken concurrently.* Field placement in programs serving students with moderate and severe disabilities will provide the student with an opportunity to understand the physically, behaviorally, and educationally relevant characteristics of this group and apply planning and teaching strategies being studied in the co-requisite course.

**EDSP 399. Workshop.** (1 to 3 hrs.); I, II, III. Workshop for specifically designated task orientation in special education. May be repeated in additional subject areas. Maximum of six semester hours may be earned under this course number.

**EDSP 435. Supervised Teaching Practicum.** (4 to 12 hrs.); I, II, III. *Prerequisites: Admission to teacher education program; attainment of scholastic standing of 2.50 on residence courses at Morehead State; minimum standing of 2.50 on all work completed in area of concentration, major(s), and minor(s); minimum of one semester residence; and approval of the University Teacher Education Council.* Placement is in public school special education and elementary education classrooms on the basis of one week placement for each credit hour unit. (Application made through coordinator of professional laboratory experiences.)

**EDSP 437. Student Teaching Practicum in Education of Students with Moderate and Severe Disabilities.** (6-12 credit hours); I, II. *Prerequisite: Admission to T.E.P.; attainment of 2.5 GPA on residence courses at MSU; 2.5 GPA on all work in area of concentration, major(s), and minor(s); minimum of one semester residence; and approval of University Teacher Education Council.* Placement is in public school setting with students with moderate and severe disabilities. Development of a new teacher portfolio that documents mastery of the performance standards and criteria for teachers of students with moderate and severe disabilities. Application is made through the Director of Student Teaching.

**EDSP 470. Research Problems.** (1 to 3 hrs.); I, II, III. Independent research study of a professional problem. Conferences with instructor by arrangement.

**EDSP 537. Educational Assessment of Exceptional Children.** (2-2-3); I, III. Assessment methodology relating to identification of behavioral deficits and excesses of students

which lessen their performance level in one or more core academic subject areas.

**EDSP 551. Curriculum for Pre-School Exceptional Children. (2-2-3); II, III. Prerequisites: EDSP 230 and 360.** Designed to prepare the teacher to work with pre-school children having handicapping conditions. Curriculum procedures involving perpetual-motor activities, prosthetic devices, and system approaches in special education featured.

**EDSP 552. Learning Disabilities. (3-0-3).** Examination of psychological, medical, and educational literature involved with survey, clinical, and experimental work concerning a specific learning disorder.

**EDSP 553. Language Arts for Exceptional Students. (2-2-3); I, III. Prerequisites: EDSP 230, 350, 360 and 537 or consent of instructor.** Designed to prepare the teacher of exceptional children in curriculum development and specialized procedures for teaching language arts, including reading, spelling, handwriting, language, and written composition.

**EDSP 555. Prescriptive Teaching for Children with Learning and Behavior Problems. (2-2-3); I, III. Prerequisite: EDSP 230, 350, 360, 537 and 553 or 557, or consent of instructor.** Transfer of education assessment data into behavioral objectives, instructional planning for implementing such objectives, behavior management, techniques, methods and materials for instruction, and formative and terminal evaluation techniques for individuals with learning and behavior problems.

**EDSP 557. Content Areas and Career Preparation for Exceptional Students. (2-2-3); II, III. Prerequisites: EDSP 230, 350, 360, 537 or consent of instructor.** Designed to prepare teachers of exceptional children in curriculum development and specialized procedures for teaching mathematics, content areas, and preparing students for vocations.

**EDSP 558. Learning Disabilities Methodology. (2-2-3). Prerequisite: EDSP 552.** Application of materials and methods (including construction of instructional aides) for teaching students with learning disabilities.

**EDSP 581. Educational Statistics. (2-2-3);** Introduction of statistical and graphical methods to educational and psychological data. Includes areas of descriptive and inferential statistics that apply to educational research.

**EDSP 599. Workshop. (One to three hours); I, II, III.** Supervised practice in working in specific areas of special education.

## Education (Professional)

**EDUC 222. Computing Tools for Educators. (3-0-3); I, II.** An introduction to educational computing through lecture and directed hands-on computer activities. The course will focus on the computer as a tool for educators. No previous computer experience required. *This course satisfies the required core-computer competency.*

**EDUC 516. Educational Data Processing. (3-0-3); I, II, III.** The development of competencies in the use of microcomputers for instruction, management, information processing, computer assisted instruction, and practical high-level programming applications through programming assignments. Hardware and operating systems are covered. Designed primarily for students without previous data processing instruction.

**EDUC 576. Reading in the Secondary School. (2-2-3); II, III. Prerequisite: Admission to Teacher Education Program.** Emphasis is centered around instruction in junior high and high school. Materials are included for instruction and studies of

administrative problems involved. (Laboratory experiences are an integral part of course.)

**EDUC 582. Discipline and Classroom Management. (3-0-3); I, II. Prerequisite: Admission to Teacher Education Program.** Designed to provide assistance in establishing an organized, well-managed classroom. Emphasis on available options and alternatives in dealing with disruptive students in classroom.

## Electricity-Electronics Technology

**EET 140. Basic Electricity. (2-2-3); I, II.** General course on the laws, theories, and applications of electricity. NON-MAJORS ONLY. Options of electricity, electronics, or robotics should take EET 141. Lab required.

**EET 141. Direct Current Circuits (DC). (2-2-3); I, II.** An introduction to fundamentals of electricity and electronics, including electronics principles, components, quantities, measurements, and design and analysis of DC circuits.

**EET 215. Basic Control Systems. (2-2-3); I. Prerequisite: EET 141.** Control of AC and DC loads in commercial and industrial applications. Course content will include the selection and application of control devices and control relays, and the design of control circuits using electromechanical devices and programmable controllers.

**EET 240. Residential Wiring. (2-2-3); I, II. Prerequisite: EET 140, or EET 141, or consent of the instructor.** Designing, planning, estimating, and methods of constructing electrical systems for single family dwellings. Based on most recent National Electrical Code. Lab required.

**EET 241. Alternating Current Circuits (AC). (2-2-3); I, II. Prerequisites: EET 141 and MATH 141 or higher, or consent of instructor.** Study of AC circuits, including electromagnetism, AC principles, components, quantities, measurements, and design and analysis of AC circuits.

**EET 242. Analog Devices and Circuits. (2-2-3); I, II. Prerequisite: EET 241 or consent of instructor.** Physical properties, models, and basic circuit design of transistor and semiconductor devices.

**EET 245. Digital Electronics. (2-2-3); II. Prerequisites: EET 241 or consent of the instructor.** Functional and logical operation of digital circuits, including logic gates, combinational logic, multivibrators, counters and registers.

**EET 342. Electronic Devices and Circuits. (2-2-3); II. Prerequisites: EET 242.** Solid state devices and integrated circuits along with their applications. Topics include FET's, operational amplifiers, thyristors and other specialized devices, oscillators, active filter, and voltage regulators.

**EET 343. Motors and Generators. (2-2-3); II. Prerequisite: EET 241 or consent of instructor.** Characteristics, selection, and control of AC and DC motors, solenoids, and other commercial or industrial loads. Selection and application of control devices and relays. Design of control circuits using relay logic and programmable controllers. Lab required.

**EET 344. Communications Circuits. (2-2-3); I. Prerequisite: EET 242 or consent of instructor.** Radio frequency components and circuits, including passive and active devices, amplifier, oscillator, modulation, and detection circuits.

**EET 345. Microprocessor Electronics. (2-2-3); I. Prerequisite: EET 245 or consent of instructor.** Components and operation of a microprocessor system, including program counters, address counters, accumulators, arithmetic logic units, instruction decoders, controller-sequencers, and registers.

**EET 443. Industrial Electricity. (2-2-3); II. Prerequisites:** *EET 241 and EET 240 or consent of instructor.* Design, theory, and wiring techniques for commercial and industrial applications. Multi-family dwellings, commercial buildings, and hazardous locations are some of the topics covered. Based on the most recent National Electrical Code. Lab required.

**EET 444. Communications Systems. (2-2-3); II. Co-requisite:** *EET 344 or consent of instructor.* Radio transmitters, data communications, television, transmission lines and networks, and antennas.

**EET 445. Computer Electronics. (2-2-3); II. Prerequisite:** *EET 345 or consent of instructor.* Computer architecture, addressing modes, instruction sequence, memories, IO systems, AD systems, assemblers, interpreters, operating systems and microprocessor interfacing.

**EET 480. Digital Communication and Networking. (2-2-3); I. Prerequisite:** *EET 445.* An intensive study of digital electronic communication and networking. The topics include digital modulation, transmission media characteristics, interface standards, network configurations, and testing equipment.

## English

**ENG 090. Developmental Writing. (3-0-3).** A placement composition course that reviews basic grammar, punctuation, and mechanics and emphasizes writing/revising for clarity and correctness. Does not satisfy the general education requirement in written composition.

**ENG 099. Basic Writing Skills. (3-0-3).** A placement composition course that reviews basic editing skills, gives students practice in writing from the sentence level to the whole essay, and emphasizes the related skills of reading, writing, and thinking. Does not satisfy the general education requirement in written composition.

**ENG 100. Writing I. (3-0-3); I, II, III. Prerequisites:** *17 ACT English Subscore or successful completion of ENG 099.* This course is designed to help students understand and develop their writing, reading, and thinking abilities through the production and rhetorical examination of personal and academic texts. *This course satisfies the required core-writing I for general education.*

**ENG 102. Composition II. (3-0-3).** Emphasis on critical thinking; frequent papers, including a short research paper.

**ENG 192. Technical Composition. (3-0-3).** Continuation of 101, with emphasis on the writing of scientific-industrial directions, letters, and memos, abstracts, minor project reports, and the use of visual aides.

**ENG 200. Writing II. (3-0-3); I, II, III. Co-requisite:** *Must be paired with humanities area studies, social and behavioral sciences area studies, natural and mathematical sciences area studies, or practical living area studies course. Prerequisite:* *ENG 100 and either completion of 24 sem. hrs. or consent of instructor.* Builds on skills learned in ENG 100 by leading students to analyze and write critically about readings that are related to the Area Study section with which this course has been paired. *This course satisfies the required core-writing II for general education.*

**ENG 202. Introduction to Literature. (3-0-3).** Extensive reading in poetry, fiction, and drama, with emphasis on basic principles of literary evaluation. (Not recommended for English area, major, or minor students.)

**ENG 205. Language: Culture and Mind. (3-0-3); I, II. Prerequisite:** *ENG 100.* Introduction to the study of human

language. Topics include language and culture, language and the mind, meaning and communication, the acquisition of language, and sound and writing systems. *This course satisfies area studies-humanities for general education.*

**ENG 211. Introduction to World Literature I. (3-0-3).** Analysis of selected masterpieces of literature from the early Greeks to the Renaissance, with emphasis on ideas basic to the Western tradition.

**ENG 212. Introduction to World Literature II. (3-0-3).** Analysis of selected masterpieces of literature from the Renaissance to the present, with emphasis on ideas basic to the Western tradition.

**ENG 220. Approaches to Literature. (3-0-3); I, II, III. Prerequisite:** *ENG 100.* Introduction to literature, with emphasis on ways of reading and understanding literary texts. Topics for individual sections will be designated in the course schedule each semester. *This course satisfies area studies-humanities for general education.*

**ENG 293. Introduction to Creative Writing. (3-0-3); on demand. Prerequisite:** *ENG 100.* Introduction to creative writing, with an emphasis and production in several genres. All sections will include at least three of the following: fiction, poetry, creative nonfiction, and drama. *This course satisfies the area studies-humanities for general education.*

**ENG 305. Introduction to Linguistics. (3-0-3).** Introduction to the major areas of contemporary linguistics.

**ENG 310. Introduction to Science Fiction. (3-0-3).** Representative science fiction short stories and novels, mostly by British and American authors of the twentieth century; occasional films; independent reading.

**ENG 315. Structure of English. (3-0-3).** The structures of the English language from the perspective of descriptive and structural linguistics.

**ENG 320. Women Writers and Feminist Perspectives. (3-0-3).** Women writers of the nineteenth and twentieth centuries, their feminine vision and voice. Focus on primary works; attention given to feminist criticism in both theory and practice.

**ENG 325. Religious Literature of the World. (3-0-3).** The literature of the major religions of the world.

**ENG 331. British Literature to 1750. (3-0-3).** A survey of British literature from *Beowulf* through Dr. Johnson.

**ENG 332. British Literature since 1750. (3-0-3).** A survey of British literature from Wordsworth to the present.

**ENG 341. American Literature to 1865. (3-0-3).** A survey of American literature from its colonial beginnings to the end of the Civil War.

**ENG 342. American Literature since 1865. (3-0-3).** A survey of American literature from the end of the Civil War to the present.

**ENG 344. The Short Story and the Novel. (3-0-3).** Study of representative forms of the short story and the novel.

**ENG 348. African-American Literature. (3-0-3).** A study of African-American poets, playwrights, autobiographers, and novelists of the nineteenth and twentieth centuries.

**ENG 360. Appalachian Literature. (3-0-3).** Regional literature including selected works by such major writers of the region as Harriette Arnow, Jesse Stuart, and Wilma Dykeman.

**ENG 365. Literature of the South. (3-0-3).** Readings in the major representative Southern authors.

**ENG 367. Old Testament Literature. (3-0-3).** A critical study of the history and literature of the Old Testament.

**ENG 368. New Testament Literature. (3-0-3).** A critical study of the history and literature of the New Testament.

**ENG 373. Introduction to Women's Studies. (3-0-3); I, II.** *Prerequisites: Completion of the (9 hour) general education requirement in English and Literature or consent of instructor.*

A survey course designed to develop student's awareness of women's literature, poetry, contributions to science, and history, as well as an introduction to feminist theory. Women scholars of all nations and races will be highlighted.

**ENG 382. Teaching Writing in Secondary Schools. (3-0-3); I, II.** *Prerequisites: Acceptance in TEP and completion of EDF 207.* A study of composition theory, research, and practice in a context of a student's own writing. Through workshops and classroom demonstrations, students learn to apply sound writing-based instructional techniques in their secondary classrooms. The course focuses on issues related to how older adolescents develop their writing abilities and the classroom practices which facilitate that development.

**ENG 389. Honors Seminar in Literature. (3-0-3).** Intensive analytical study of a technique, movement, theme, author, or genre. Restricted to Honors Program students.

**ENG 390. Professional Writing. (3-0-3); I.** *Prerequisite: ENG 100.* A writing-intensive course which teaches intermediate-level students the formal, rhetorical, and mechanical aspects of technical writing to prepare them for writing case reports, memoranda, technical specifications, process descriptions, and other work-related documents.

**ENG 391. Advanced Expository Writing. (3-0-3).** Practice in the writing of expository prose, and long essays based on research.

**ENG 392. Teaching Writing in Elementary and Middle Schools. (3-0-3); I, II.** *Prerequisite: Completion of English General Education Requirements.* Study of composition theory, research, and practice in a context of a student's own writing through workshops and classroom demonstrations.

**ENG 393. History of the English Language. (3-0-3).** The major developments in the evolution of English from an early Germanic dialect to its present form.

**ENG 394. Language and Society. (3-0-3).** Introduction to sociolinguistics. Focus on language variation and issues of language, gender, race, power, and education.

**ENG 395. Poetry Writing. (3-0-3).** *Prerequisite: ENG 293.* Instruction in poetry writing: structural principles, use of metaphor, image, detail, voice, rhythm, the line and other concerns of poetics. A writing workshop format with emphasis on poetry in the contemporary idiom.

**ENG 396. Fiction Writing. (3-0-3).** *Prerequisite: ENG 293.* Instruction in fiction writing: plot, conflict, characterization, point of view, atmosphere and other concerns of contemporary fiction. Writing workshop format with emphasis on fiction in the contemporary idiom.

**ENG 397. Writing Creative Nonfiction. (3-0-3); on demand.** *Prerequisite: ENG 293.* Instruction in writing creative nonfiction (including memoir, personal essay, autobiography, and general literary nonfiction). Topics include developing themes from subjects, dramatizing life experience, developing a voice and persona, and other concerns of contemporary creative nonfiction. Writing workshop format.

**ENG 399. Special Courses. (1 to 3 hrs.).** *Prerequisite: Variable.* These courses are usually specialized offerings for the undergraduate student. The purpose of these courses is to enhance the existing program in English.

**ENG 435. Shakespeare. (3-0-3).** A study of selected comedies, histories, and tragedies in their historical and critical context.

**ENG 436. The English Renaissance. (3-0-3).** Selected literature from 1500 to 1600, including works by Skelton, Wyatt and Surrey, Sidney, Spenser, and Shakespeare (excluding his plays).

**ENG 441. Restoration and Eighteenth Century British Literature. (3-0-3).** Representative selections of English literature, including works by Dryden, Pope, Swift, Addison and Steele, and Johnson.

**ENG 442. Romantic Writers. (3-0-3).** Representative selections of English literature, including works by Wordsworth, Coleridge, Byron, Shelley, Keats, and the essayists.

**ENG 443. Victorian Writers. (3-0-3).** Representative selections of English literature, including works by Browning, Tennyson, Arnold, and Carlyle.

**ENG 444. Twentieth Century British Literature. (3-0-3).** Study of modern British literary genres.

**ENG 466. American Poetry. (3-0-3).** The development of American poetry from its beginning to the present, with emphasis on such poets as Bradstreet, Whitman, Dickinson, Frost, Eliot, and Stevens.

**ENG 476. Directed Studies. (1 to 3 hrs.).** *Prerequisite: Consent of the instructor and the department chair.* This course is an independent study in English for the undergraduate English major. Before registering, the student must present in writing a suggested study and a justification for that study. Each request for the course will be considered on its own merits in relation to the special needs of the student.

**ENG 499. Seminar: Major Writers. (3-0-3).** Intensive study of one or more major figures in the literature of the world.

**ENG 499C. Senior Seminar in English. (3-0-3); I, II, III.** *Prerequisites: Senior standing; completion of at least 24 hours in English courses, including ENG 331, ENG 332, and ENG 341 or ENG 341; consent of Coordinator of Undergraduate English.* Examination, in a seminar setting, of issues and opportunities for English majors. *This course satisfies the integrative component for general education.*

**ENG 500. Studies in English for Teachers. (3-0-3).** *Prerequisite: Admission to Teacher Education Program.* The philosophy, rationale, and content of English in American middle and high schools.

**ENG 501. General Semantics. (3-0-3).** Presents the problems of meaning as related to referential, distributional, and rational ways of encountering experience.

**ENG 503. Teaching Writing. (3-0-3).** Study of composition theory, research, and practice as applicable to the teaching and evaluation of writing for high school and college.

**ENG 505. Linguistics: Grammar. (3-0-3).** Principles of grammar from current theoretical perspectives.

**ENG 509. Theories of Teaching Writing. (3-0-3); on demand.** *Prerequisite: Permission of instructor.* An in-depth study of composition theory and research with a heavy emphasis on the analysis and critique of important sources in the field of composition and rhetoric. Students are expected to complete a 10-hour assignment in the Writing Center or assisting in a full-time composition teacher in his/her class.

**ENG 528. Literary Criticism. (3-0-3).** A survey of traditional criticism from the classical period to the twentieth century; or a study of modern criticism; the New Humanists, New Critics, Neo-Aristotelians, and various linguistics structuralists.

**ENG 533. The English Novel. (3-0-3).** Development of the English novel from its beginnings to the twentieth century.

**ENG 534. Chaucer. (3-0-3).** A careful reading and analysis of Chaucer's early poetry and the Canterbury Tales. Relevant aspects of medieval culture are also examined.

**ENG 539. Milton. (3-0-3).** Intensive reading of Milton's poetry and major prose.

**ENG 544. American Folklore. (3-0-3).** A study of such traditional oral forms as the proverb, tale, epic, ballad, and folk song.

**ENG 545. Seventeenth Century British Literature. (3-0-3).** English literature 1600-1660; Donne, Jonson.

**ENG 552. Early Dramatic Literature. (3-0-3).** Representative dramas from the Greeks to the mid-nineteenth century.

**ENG 553. Modern Drama. (3-0-3).** Representative dramas from the advent of realism to the present.

**ENG 561. Studies in American Literary Periods. (3-0-3).** The study of the writers and genres of an American literary period.

**ENG 563. American Fiction. (3-0-3).** The development of American fiction from Charles Brockden Brown to Faulkner.

**ENG 570. Introduction to Film Literature. (3-0-3).** An introduction to the study of film as literature with extensive reading in the history of film and viewing of selected film classics.

**ENG 576. Directed Studies. (1 to 3 hrs.) Prerequisite:** *Consent of the instructor and the department chair.* This course is an independent study in English for the advanced undergraduate and the graduate English major. Before registering, the student must present in writing a suggested study and a justification for that study. Each request for the course will be considered on its own merits in relation to the special needs of the student.

**ENG 583. Advanced Poetry Writing. (3-0-3). Prerequisite:** *ENG 395 or ENG 396, or approval of the instructor.* Advanced instruction in poetry writing: organic and traditional structures; tone and persona; the sentence and the line; the lyric, dramatic, narrative, and meditative stances; and other concerns of poetics. An intensive writing workshop format with emphasis on poetry in the contemporary idiom.

**ENG 584. Advanced Fiction Writing. (3-0-3). Prerequisite:** *ENG 395 or ENG 396, or approval of the instructor.* Advanced instruction in fiction writing: plot, conflict, characterization, point of view, atmosphere and other concerns of contemporary fiction. An intensive writing workshop format with emphasis on contemporary fiction and the audience and market for literary fiction.

**ENG 591. Technical Writing I. (3-0-3).** Principles of analysis, process, and definition; progress, recommendation, and research reports; proposals and memoranda; visual aides; transitions, mechanics of clear and precise statement.

**ENG 592. Technical Writing II. (3-0-3). Prerequisite:** *Consent of instructor.* Continuation of ENG 591.

**ENG 597. Technical Editing. (3-0-3). Prerequisite:** *ENG 591 or consent of the instructor.* Study of the practice and management of editing for technical, scientific, professional, and corporate reports and writings.

**ENG 599. Special Courses. (1 to 3 hrs.). Prerequisites:** *Variable.* These courses are usually specialized offerings for the advanced undergraduate and the graduate student in English. The purpose of these courses is to enhance the existing program in English.

## Finance

**FIN 199. Selected Workshop Topics. (1 to 4 hrs.); on demand.** Workshops on various finance subjects will be presented periodically to supplement the basic course offerings in finance. Credit toward degree programs must be approved by the student's advisor and the department chair.

**FIN 252. Mathematics of Finance. (3-0-3); on demand.** Application of mathematical techniques for business and economic analysis. Topics covered include: interest annuities, amortization, sinking funds, bond valuation, and other relevant quantitative subjects.

**FIN 264. Personal Finance. (3-0-3); on demand.** Planning personal finance, financial statements, budgeting, managing financial and non-financial assets, taxes, insurance, and estate planning. *This course satisfies area studies-practical living for general education.*

**FIN 325. Bank Management. (3-0-3); on demand.** *Prerequisite:* *ACCT 281, ECON 101, or higher.* Organization and operation of the commercial bank.

**FIN 342. Money and Banking. (3-0-3); on demand.** *Prerequisite:* *ECON 201, or equivalent.* Origin, development, and functions of money; banking functions and processes; the Federal Reserve System and monetary policy. (Crosslisted as ECON 342.)

**FIN 343. Investments. (3-0-3); on demand. Prerequisite:** *ECON 202 and FIN 360.* Investment risks, security analysis, investment policy-making, both individual and institutional.

**FIN 360. Business Finance. (3-0-3); I, II. Prerequisites:** *ACCT 282, ECON 101 or ECON 202, MATH 152 or equivalent.* Financial management, management of cash, receivables, inventories, plant assets, short-term debt, long-term debt, intermediate-term debt, owner's equity.

**FIN 370. Working Capital Management. (3-0-3); on demand.** Focus on short-term financial management decision-making covering topics which include: accounts receivable management, inventory management and control, cash management, accounts payable management, liquidity analysis, and short-term investing and financial alternatives. Short-term financial management decisions facing small businesses are emphasized.

**FIN 375. Accounting Analysis and Financial Decision Making. (3-0-3); on demand. Prerequisites:** *ACCT 282, CIS 101, FIN 360.* Interpretation and development of accounting and financial data and statements incorporating spreadsheet analysis and applications. (Crosslisted as ACCT 375.)

**FIN 399. Selected Workshop Topics. (1 to 4 hrs.); on demand.** Workshops on various finance subjects will be presented periodically to supplement the basic course offerings in finance. Credit toward degree programs must be approved by the student's advisor and the department chair.

**FIN 420. Financial Markets and Institutions. (3-0-3); on demand. Prerequisites:** *FIN 360 or equivalent or consent of instructor.* Analysis of the flow of funds in financial markets; characteristics of money and capital markets; characteristics of financial instruments; interest rate determination; purposes and characteristics of financial institutions; interactions of financial markets and financial institutions domestically and internationally.

**FIN 443. Portfolio Analysis. (3-0-3); on demand.** *Prerequisites:* *FIN 360, FIN 343.* Includes study of portfolio theory, risk analysis, portfolio management. Applications including computer analysis of financial data stressed.

**FIN 460. Advanced Business Finance. (3-0-3); on demand.**  
**Prerequisites:** FIN 360. Includes intensive study of capital budgeting, cost of capital, capital structure, special topics in finance.

**FIN 476. Special Problems in Finance. (1 to 3 hrs.); on demand.** **Prerequisite:** Completion of 21 hours in finance and economics, combined with prior consent of the department chair. This course is an independent study of finance problems of special interest. Students must present in writing a suggested problem and justification for the study prior to registration. Each request will be considered on its own merit in relation to the special needs of the student.

**FIN 485. International Finance. (3-0-3); on demand.**  
**Prerequisites:** FIN 360 or consent of instructor. Includes the study of international finance markets, investments, and multinational corporations with emphasis on the operations of the multinational firm, foreign exchange and trade, banking and investment, and risk.

**FIN 486. Student-Managed Investment Fund. (3-0-3); on demand.** **Prerequisites:** FIN 343 and FIN 360, or consent of the instructor. Students manage a real portfolio of investments in the stock market. Investment money belongs to the MSU Foundation and other outside investors. Students conduct securities analysis and make portfolio management decisions. All investment decisions are made by the students. The course professor serves as a moderator only.

**FIN 490. Seminar in Financial Theory and Practice. (3-0-3); on demand.** **Prerequisites:** FIN 460, FIN 343. Examination and application of contemporary financial theory and analysis. Study of classical literature and the evolution of contemporary financial theory. Examination of the role of events and institutions on the evolution of financial thought.

**FIN 499. Selected Workshop Topics. (1 to 4 hrs.); on demand.** Workshops on various finance subjects will be presented periodically to supplement the basic course offerings in finance. Credit toward degree programs must be approved by the student's advisor and the department chair.

## Fine Arts

**FNA 160. Understanding the Visual Arts. (3-0-3); I, II, III.** An examination of visual art from various cultures. It includes a study of materials, techniques, subjects, styles, issues, functions, and meanings related to visual art. *This course satisfies the area studies-humanities for general education.*

**FNA 187-588. Opera Workshop. (0-2-1); I, II.** An introduction to the techniques of musical theatre with emphasis placed on the integration of music and action-dramatic study of operatic roles.

## French

**FRN 101. Beginning French I. (3-0-3); I, II, III.** Emphasis on developing communicative skills. Listening, speaking, reading, writing. Basic grammar and orientation to French culture. Video and audio components. *This course satisfies the area studies-humanities for general education.*

**FRN 102. Beginning French II. (3-0-3).** Continuation of 101. Use of four skills for effective communication in a variety of situations.

**FRN 201. Intermediate French. (3-0-3).** Continuation of 102. Increased emphasis on interactive language and grammatical competency.

**FRN 202. Conversation and Composition. (3-0-3).** Continuation of 201. Listening and reading for proficiency. Creative personal expression in speaking and writing.

**FRN 203. Introduction to France. (3-0-3).** Continuation of 202. Implementation of four skills into broad-based dialogue and discussion relating to all aspects of French culture and civilization.

**FRN 205. French Culture and Civilization. (3-0-3); II.** Survey of art, architecture, music and history of France. Cuisine, fashion, and cinema. The imprint of France on America and the Third World. Taught in English; some knowledge of French helpful but not required. *This course satisfies the area studies-humanities for general education.*

**FRN 301. Advanced Grammar and Composition. (3-0-3).**  
**Prerequisite:** FRN 202 or consent of instructor. In-depth analysis of grammatical structures and stylistics. Writing practice in a variety of styles and modes, emphasizing clarity and expression.

**FRN 302. Advanced Phonetics and Conversation. (3-0-3).**  
**Prerequisite:** FRN 202 or consent of instructor. In-depth analysis of phonology and articulation. Speaking practice in a variety of styles, emphasizing corrective pronunciation and fluency. May be taken two times for credit.

**FRN 303. Survey of French Literature I. (3-0-3).**  
**Prerequisite:** FRN 202 or consent of instructor. A survey of major works and authors in French literature up to 1750, including the following periods: Medieval, Renaissance, Baroque, Classicism, and Enlightenment.

**FRN 304. Survey of French Literature II. (3-0-3).**  
**Prerequisite:** FRN 202 or consent of instructor. A survey of major authors from the French Revolution to the present, including the following movements: Pre-Romanticism, Romanticism, Realism, Symbolism, Modernism, Surrealism, Existentialism, Absurdism, and Post-Modernism.

**FRN 402. Advanced French Conversation. (1-0-1); I, II.**  
**Prerequisite:** FRN 301 or consent of instructor. Analysis and imitation of native speech patterns. Practice in aural/oral communication for a variety of situations. May be taken three times for credit.

**FRN 403. Seminar in French Literature I. (3-0-3).**  
**Prerequisite:** FRN 303 or FRN 304 or consent of instructor. A seminar on an author, genre, or period in Medieval or Early Modern French literature (up to 1750). May be taken three times for credit.

**FRN 404. Seminar in French Literature II. (3-0-3).**  
**Prerequisite:** FRN 303 or FRN 304 or consent of instructor. A seminar on an author, genre, or period in modern French literature (after 1750). May be taken three times for credit.

**FRN 405. Linguistics and Language Teaching. (3-0-3).** For French teaching majors. Discussion of current pedagogical trends. Student presentations of micro-lessons on four skills, grammar, literature, and culture.

**FRN 476. Directed Studies. (1 to 3 hrs.).** **Prerequisite:** Consent of the instructor and the department chair. This course is a directed study in French for undergraduate French majors. Each request for the course will be considered on its own merits in relation to the special need of the student. May be taken three times for credit.

**FRN 499C. Senior Colloquium in French. (3-0-3); I.**  
**Prerequisites:** Senior standing and eighteen hours in French courses, including FRN 403 or FRN 404; or consent of the French faculty. An integrative capstone course in French. *This course satisfies the integrative component for general education.*

**FRN 550. Reading French I. (3-0-3).** *Prerequisite: Consent of the instructor.* Intensive practice in reading of the French language, with rapid and correct idiomatic translation as the aim. May be taken two times for credit.

**FRN 576. Directed Studies. (1 to 3 hrs.).** *Prerequisite: Consent of the instructor and the department chair.* This course is a directed study in French for the advanced undergraduate and the graduate student. Each request for the course will be considered on its own merits in relation to the special needs of the student. May be taken three times for credit.

**FRN 599. Special Courses. (1 to 3 hrs.).** *Prerequisites: Variable.* These courses are usually specialized offerings in French for the advanced undergraduate and the graduate student. The purpose of these courses is to enhance the existing program in French. May be taken three times for credit.

## Geography

**GEO 100. Fundamentals of Geography. (3-0-3); I, II, III.** Investigation of global patterns and processes with focus placed on both physical and cultural environmental aspects. The approach is issue oriented and must involve integration of information from a variety of disciplines in order to gain understanding and to suggest solutions. *This course satisfies area studies-social and behavioral sciences for general education.*

**GEO 101. Physical Geography. (3-0-3); I.** Physical elements of the earth and their distribution; weather, climate, landforms, earth materials, water resources, and natural vegetation analyzed and interpreted as elements of human habitation; correlated field trips and laboratory studies.

**GEO 211. Economic Geography. (3-0-3); II.** World commodities and their regional distribution. Analysis of land uses, agriculture, manufacturing, and extractive industries against a background of natural cultural environments; consideration of economic factors in current international affairs.

**GEO 241. United States and Canada. (3-0-3); I.** Major land-use regions of the United States and Canada, their physical and cultural landscapes.

**GEO 300. World Geography. (3-0-3); I, II.** A general survey of the human and physical geography of the major regions of the world with a concentration on development. Emphasis is on the interaction between individuals and the physical and cultural landscape in various settings. *This course satisfies the area studies-social and behavioral sciences for general education.*

**GEO 310. Australia. (3-0-3); on demand.** Resources of Australia, New Zealand, and islands of the Pacific; significance of position and political connection of these lands.

**GEO 315. Urban Geography. (3-0-3); I.** A survey of urban evolution, urbanization, economic structure, land use, and urban planning.

**GEO 319. Middle America. (3-0-3); on demand.** Mexico, the Central American Republics, and the islands of the Caribbean; emphasis upon cultural and historical traditions.

**GEO 320. South America. (3-0-3); on demand.** Regional analysis on national and continental basis with treatment of the physical, cultural, and economic characteristics; stress upon prospects of expansion for settlement, development of resources, and growth of industries.

**GEO 328. Africa. (3-0-3); on demand.** Resources, both natural and cultural; changing political conditions and affiliations

of African countries, recognition of, and reasons for, the growing importance of this continent in world affairs.

**GEO 331. Europe. (3-0-3); on demand.** Geographic factors in the economic, social, and political structure of Europe; emphasis on natural regions, resource distribution, and industrial development.

**GEO 341. Appalachia. (3-0-3); on demand.** A geographic analysis of the various physical and human elements of the Appalachian Highlands. Emphasis is placed on the relationship of the physical environment to human activities in the region.

**GEO 344. Kentucky. (3-0-3); on demand.** Physiographic divisions and subdivisions; interpretations of natural features; occupations and land use; a survey of political units and consideration of traditions and potentialities.

**GEO 349. Cartography I. (3-0-3); on demand.** History of map-making; properties and qualities of maps; characteristics of map projections; construction of basic projections; basic techniques of mapping spatial data.

**GEO 350. Cartography II. (3-0-3); on demand.** *Prerequisite: GEO 349.* Selection of source material for the base and body of the map; mechanical reproduction; construction of complex projections; basic aerial photo interpretation; field mapping techniques and practice.

**GEO 360. Physiography of the United States. (3-0-3); on demand.** *Prerequisite: Physical geography or geology.* Description and detailed analysis of the physiographic provinces. An explanation and interpretation of surface features and their evolution.

**GEO 366. Political Geography. (3-0-3); II.** A study of principles and concepts of political geography and their application to understanding the variation of political phenomena from place to place on earth. See GOVT 372.

**GEO 383. Asia. (3-0-3); on demand.** The human-land relations characterizing this large and diverse region. An evaluation of a continent in the midst of change in terms of geographic potentials.

**GEO 390. Weather and Climate. (3-0-3); I, II.** Introduction to the physical elements of weather and climate; classifications of types and their distribution, with particular reference to the effects of climate on the earth's physical and cultural landscapes.

**GEO 399. Selected Topics in Geography. (1-4 hours); on demand.** Special courses which supplement regular course offerings. May be repeated if the subtitle indicates a different course is being offered. Additional prerequisites, if any, will depend upon the course offered.

**GEO 450. Teaching Social Studies. (3-0-3); I, II.** *Prerequisite: Admission to Teacher Education Program.* See HIS 450.

**GEO 476. Special Problems. (1-3 hours); on demand.** *Prerequisite: Consent of instructor.* Research project or directed readings on a special topic developed with the instructor.

**GEO 499C. Senior Seminar in Geography. (3-0-3); I.** A course intended for geography majors and minors with senior status and at least 21 hours in geography. Students will conduct quantitative research projects, including written and oral presentations. Course examines professional and graduate opportunities in geography. *This course satisfies the integrative component for general education.*

**GEO 500. Soviet Union. (3-0-3); on demand.** Systematic and regional study, with special attention given to the resource base. Appraisal of the agricultural and industrial strengths of the country; consideration of the effects of governmental policy and economic growth.

**GEO 502. Geographic Factors and Concepts. (3-0-3); on demand.** A general survey of the various aspects of the field of geography. Designed for beginning teachers and students not having a background for work in geography.

**GEO 505. Conservation of Natural Resources. (3-0-3); I, II, III.** Natural resources basic to human welfare; emphasis on lands, water, minerals, forests, and wildlife, including their relationships. Field trips are required.

**GEO 510. Urban Geography. (3-0-3); on demand.** Origin and development of cities, urban ecology, central place theory, functional classifications, and a consideration of site, situation, and land utilization of selected cities.

**GEO 540. World of Manufacturing. (3-0-3); on demand.** Interpretive analysis of the distribution and function of selected manufacturing industries; location theory; trends concepts, materials and techniques for the teaching of geography.

**GEO 550. Geography for Teachers. (3-0-3); on demand.** A study of the basic concepts, materials, and techniques for the teaching of geography.

**GEO 590. Applied Meteorology. (3-0-3); on demand.**  
*Prerequisite: GEO 390.* Weather elements, emphasis on meteorological skills; application to industrial, aviation, maritime and military needs.

**GEO 599. Selected Topics in Geography. (1-4 hours); on demand.** Special courses which supplement regular course offerings. May be repeated if the subtitle indicates a different course is being offered. Additional prerequisites, if any, will depend upon the course offered.

## Geoscience

**GEOS 106. Introduction to Geology. (3-0-3); I, II, III.** General introduction to the materials, structures, and physical processes of earth. Emphasis on socio-economic implications of geologic hazards, earth resource management, and waste disposal/treatment. *This course satisfies the area studies-natural and mathematical sciences for general education. Not an acceptable prerequisite for upper division GEOS courses.*

**GEOS 108. Physical Geology. (3-2-4); I, II.** Earth materials, structures, and processes for geology majors and others who wish to take upper division GEOS classes. Lab provides hands-on experience in rock and mineral identification and the use and interpretation of topographic and geologic maps.

**GEOS 199. Selected Topics. (1 to 6 hrs.); on demand.**

**\*GEOS 200. Coal Mining Geology. (3-0-3); I. Prerequisite: GEOS 108.** Study of coal and coal-bearing rocks with applications to surface and underground mining.

**\*GEOS 201. Historical Geology. (2-2-3); II. Prerequisite: GEOS 108.** Introduction to the geologic (rock) record of major physical and biological events in Earth's evolution.

**GEOS 239. Cooperative Education. (1 to 8 hrs.); I, II, III.** Participation in supervised work experience in a professional environment. Department approval is required.

**GEOS 240. Oceans. (3-0-3); I.** General introduction to marine geology, chemical oceanography, physical oceanography and marine biology.

**GEOS 262. Mineralogy. (2-4-4); I in alternate years.**  
*Prerequisites: GEOS 108 or CHEM 201 or CHEM 112.* Physical and chemical properties of minerals, chemical, optical, and X-ray methods of identification; systematic survey of common mineral groups.

**\*GEOS 276. Geologic Methods. (2-2-3); I. Prerequisites: GEOS 201 or permission of instructor.** Basic field office and laboratory techniques and instruments used in geologic studies.

**GEOS 299. Selected Topics. (1 to 6 hrs.); on demand.**

**GEOS 300. Petrology. (3-2-4); II in alternate years.**  
*Prerequisite: GEOS 262 or permission of instructor.* Modes of occurrence and origins of igneous, metamorphic and sedimentary rocks and methods of identifying and classifying rocks.

**\*GEOS 315. Sedimentation and Stratigraphy. (2-4-4); I in alternate years. Prerequisite: GEOS 201.** Origins and characteristics of sediments, sedimentary structures, depositional environments, facies, systems tracts, sequences and sedimentary basins. Lab provides hands-on experience in sediment analysis and techniques used in reconstructing stratal geometries.

**\*GEOS 325. Structural Geology. (3-2-4); II in alternate years. Prerequisites: GEOS 201 and MATH 141 (or its equivalent).** Geologic structures, rock mechanics and geometrical techniques used in descriptive analysis. Emphasis on faults, folds, shear zones, cleavage, foliation and lineation.

**GEOS 339. Cooperative Education. (1 to 8 hrs.); I, II, III.**  
*Prerequisite: GEOS 239.* Participation in supervised work experience in a professional environment. Department approval is required.

**\*GEOS 350. Geomorphology. (2-2-3); II in alternate years.**  
*Prerequisite: GEOS 108.* Landforms and geologic processes that shape Earth's surface. Lab emphasizes use of topographic maps, areal photographs and remotely sensed images in landform recognition and interpretation.

**\*GEOS 376. Environmental Geology. (2-2-3); I, II.**  
*Prerequisite: GEOS 108 and MATH 135 or higher.* Interaction of humans with surface and near-surface geological environments. Applies geological principles and techniques to problems associated with natural and anthropogenic geologic hazards, disposal/treatment of human and industrial wastes, and earth resource management.

**\*GEOS 379. Invertebrate Paleontology. (2-4-4); I in alternate years. Prerequisites: GEOS 201, BIOL 210 or GEOS 410.** Invertebrate animals, their morphology, classification, paleoecology, phylogeny, and stratigraphic succession; faunal assemblages and research techniques.

**GEOS 399. Selected Topics (1 to 6 hrs.); on demand.**

**\*GEOS 410. Geological History of Plants and Animals. (2-2-3); on demand. Prerequisites: BIOL 210 and BIOL 215 or GEOS 201.** Evolutionary history of plants and animals throughout geological time.

**\*GEOS 413. Micropaleontology. (2-2-3); on demand.**  
*Prerequisite: GEOS 201.* Collection, preparation, microscopic investigation, classification, paleoecology, and stratigraphic succession of microfossils.

**GEOS 415. History of Geology. (2-0-2); on demand.** Development of geological thought; important persons and their contributions to our understanding of Earth.

**GEOS 420. Optical Mineralogy. (2-2-3); I in alternate years. Prerequisite: GEOS 262 or permission of instructor.** Behavior of light in isotropic and anisotropic minerals; identification of minerals with polarizing microscope.

**GEOS 425. Hydrogeology. (2-2-3); II. Prerequisites: GEOS 108; GEOS 200 or higher level GEOS course; MATH 152; Co-requisite: CHEM 112; or permission of the instructor.** Algebra-based course in applied ground water concerning the origin and movement of ground water, aquifers, behavior of pumped wells,

general water chemistry and water quality, and ground water contamination.

**GEOS 430. Low-Temperature Geochemistry. (2-2-3); II in alternate years. Prerequisites: CHEM 112; GEOS 108 and GEOS 300 or permission of instructor.** Chemical reactions between natural waters, atmospheric gases and earth materials in surface and near-surface environments.

**GEOS 439. Cooperative Education. (1 to 8 hrs.); I, II, III. Prerequisite: GEOS 339.** Participation in supervised work experience in a professional environment. Department approval is required.

**\*GEOS 450. Economic Geology. (3-0-3); on demand. Prerequisites: GEOS 262 or consent of the instructor.** Formation and occurrence of major metallic and nonmetallic mineral deposits of the world.

**GEOS 476. Special Problems. (1 to 6 hrs.); I, II, III. Prerequisite: Consent of instructor.** Topic to be approved prior to registration.

**GEOS 499. Selected Topics (1 to 6 hrs.); on demand.**

**GEOS 599. Selected Topics (1 to 6 hrs.); on demand.**

**\*Field trip required or recommended.**

## German

**GER 101. Beginning German I. (3-0-3).** Fundamentals of structure: basic vocabulary, reading, writing, pronunciation and some conversation.

**GER 102. Beginning German II. (3-0-3).** A continuation of GER 101.

**GER 201. Intermediate German I. (3-0-3).** A review of grammar and pronunciation, with emphasis on reading of contemporary writings.

**GER 202. Intermediate German II. (3-0-3). Prerequisite: GER 201.** A continuation of GER 201.

**GER 203. Expository German. (3-0-3).** Techniques of reading for accurate information in expository writing in the natural and social sciences and the humanities.

**GER 301. Grammar and Conversation. (3-0-3).** Further development of language skills. Extensive experience in the language laboratory is required.

**GER 302. Composition and Conversation. (3-0-3).** A continuation of GER 301 with greater emphasis on stylistics.

## Government

**GOVT 141. United States Government. (3-0-3); I, II, III.** A study of the Constitution; public opinion, interest groups, and political parties; the organization and operation of national government; and domestic and foreign policy. *This course satisfies area studies-social and behavioral sciences for general education.*

**GOVT 210. Introduction to Political Theory. (3-0-3); I, II.** An introductory course in political philosophy with an emphasis on familiarity with concepts of human nature, society, democracy, and revolution. *This course satisfies the area studies-humanities for general education.*

**GOVT 226. Law for the Layperson. (3-0-3); II in alternate years.** A study of practical criminal and civil law which every citizen should know; designed to provide an understanding of a person's legal rights and responsibilities, a knowledge of everyday legal problems, and the ability to analyze, evaluate, and, in some instances, resolve simple legal disputes. This course may not be taken for Paralegal Studies credit. *This*

*course satisfies the area studies-practical living for general education.*

**GOVT 230. Introduction to Comparative Politics. (3-0-3); I, II.** An introduction to the concepts and themes of comparative government, showing the evolution of political systems, and their response to problems of organization, order and governance.

**GOVT 242. State and Local Government. (3-0-3); I, II.** A study of the nature, organization, powers, and functions of American state and local governments.

**GOVT 301. Comparative Politics of Development. (3-0-3); I in alternate years.** Thematic study of political, economic, and social problems in developing and newly industrialized countries, with emphasis on the politics of underdevelopment, state autonomy, and development strategies.

**GOVT 302. Politics of Culture. (3-0-3); II.** A study of the relationship between a society's ideas and practices of the good, the true, and the beautiful and its ideas about politics and political life.

**GOVT 303. Comparative Constitutional Law and Politics. (3-0-3); I in alternate years.** A comparative cross-national study of constitutional law and politics with particular emphasis on governmental powers and individual rights issues in the United States, Great Britain, Canada and Germany.

**GOVT 304. Politics of Transition. (3-0-3); II in alternate years. Prerequisite: GOVT 230 or permission of instructor.** Analysis of change in political structures and institutions including changes from military to democratic forms and the impact of economic liberalization.

**GOVT 305. Political Behavior. (3-0-3). On demand. Prerequisite: GOVT 141 or consent of instructor.** A study of mass and elite political behavior including political socialization, attitudes, and opinions; voting behavior; and government decision making.

**GOVT 312. Western Political Thought. (3-0-3); I. Prerequisite: GOVT 210 or consent of instructor.** A study of the political ideas of ancient, medieval, and modern political thinkers including Plato, Aristotle, Machiavelli, Hobbes, Locke, Rousseau, Mill, and Marx.

**GOVT 314. American Political Thought. (3-0-3); II in alternate years. Prerequisite: GOVT 141 and GOVT 210, or permission of instructor.** A study of American political ideas as they are expressed in a variety of sources, including pamphlets, literature, poetry, autobiography, and political philosophy.

**GOVT 316. Modern Ideologies. (3-0-3); II in alternate years. Prerequisites: GOVT 210 or consent of instructor.** A study of the doctrines of liberalism, conservatism, socialism, fascism, and anarchism as political ideas, their major proponents, and their use as tools of political action.

**GOVT 317. Feminist Political Thought. (3-0-3); I. Prerequisite: GOVT 210 or consent of instructor.** History and development of feminist political thought. Perspectives include those of Fuller, Millet, Collins, MacKinnon, and Irigaray.

**GOVT 318. Twentieth Century Political Thought. (3-0-3); II. Prerequisite: GOVT 210 or consent of instructor.** A study of the major developments in twentieth-century social and political theory, including trends in liberal thought, critical theory, psychoanalysis, post-modernism, and conservatism.

**GOVT 321. Constitutional Law: Governmental Powers. (3-0-3); I. Prerequisites: GOVT 141.** A study of the development, origins, and current character of the U.S. Constitution, with particular attention to separation of powers and federal-state relations.

**GOVT 322. Courts and Civil Liberties. (3-0-3); I, II.**

**Prerequisite:** GOVT 141. A study of the federal and state court systems and of the Bill of Rights and the Fourteenth Amendment, with particular attention to questions of freedom of speech, religion, and association; due process of law; privacy; and discrimination.

**GOVT 324. Environmental Law and Policy. (3-0-3); I.**

**Prerequisite:** GOVT 141 or consent of the instructor. A study of the political and legal aspects of major environmental policies including the impact of energy policies on environmental health and safety.

**GOVT 328. Law, Government and Privacy in the Computer Age. (3-0-3); II in alternate years.** An in-depth study of information gathering policies and procedures with an examination of the technologies, agencies and organizations which shape them. Privacy legislation and competing values affecting information policy will be discussed, and students will have the opportunity to develop skill in on-line research in government documents.

**GOVT 330. Parliamentary Democracies. (3-0-3); I.**

**Prerequisite:** GOVT 230 or consent of instructor. A study of the constitutional development, political organization, legislatures, administration, and courts of the governments of the United Kingdom, France, and Germany.

**GOVT 331. Politics of the Middle East and North Africa. (3-0-3); II in alternate years. Prerequisite:** GOVT 230 or permission of instructor. Analysis of major themes and cases in Middle Eastern/North African Politics. Includes issues of religion, ethnic conflict, modernization, and democratization.

**GOVT 332. Politics of Latin America and the Caribbean. (3-0-3); I in alternate years. Prerequisite:** GOVT 230 or permission of instructor. Analysis of major themes and cases in Latin American/Caribbean politics. Includes issues of debt, development, and democratization.

**GOVT 333. Politics of Sub-Saharan Africa. (3-0-3); I in alternate years. Prerequisite:** GOVT 230 or permission of instructor. Analysis of major themes and cases in African politics. Includes issues of debt, development, and democratization.

**GOVT 334. Russia and Eastern European Governments. (3-0-3); II. Prerequisite:** GOVT 230 or consent of instructor. A study of the Russian political system; its ideological base, governing structures, and political processes; and an analysis of the major Eastern European governments and their political life.

**GOVT 337. Politics of Asia. (3-0-3); II in alternate years. Prerequisite:** GOVT 230 or permission of instructor. Survey of politics in China, Japan, India, and Vietnam. Emphasis on themes of traditional order and its collapse and persistence. Development of Asian nationalism and clash between Marxist revolution and evolutionary democracy.

**GOVT 342. The American Presidency. (3-0-3); I.**

**Prerequisite:** GOVT 141 or consent of instructor. A study of the presidency in American politics emphasizing the constitution, presidential selection, presidential power, interbranch relations, role of the public, psychological theories of the presidency, and presidential policy-making.

**GOVT 343. Political Parties and Elections. (3-0-3); I in alternate years. Prerequisite:** GOVT 141 or consent of instructor. A study of the nature and role of parties and interest groups; party structure and development, functions of primaries, nomination system and campaign methods, and policy making.

**GOVT 344. Kentucky Government. (3-0-3); I in alternate years. Prerequisite:** GOVT 242 or consent of instructor. A

study of the nature, organization, powers, and functions of Kentucky state government.

**GOVT 347. American Public Policy. (3-0-3); II.**

**Prerequisite:** GOVT 141. A study of major national domestic and foreign policy problems, including health, education, labor, transportation, defense, and national security, focusing on their nature, formulation, implementation, and impact.

**GOVT 349. African-American Politics. (3-0-3); II in alternate years. Prerequisites:** GOVT 141 or consent of instructor. A study of twentieth century African-American legal and political action with particular emphasis on the Civil Rights Movement and political conflicts over racial equality in education, public accommodations, voting, housing, and employment.

**GOVT 351. Public Administration. (3-0-3); I. Prerequisite:** GOVT 141 or consent of instructor. A study of the historical evolution, theory of organization and administration, and the personnel, financial, and legal aspects of public administration.

**GOVT 353. Public Personnel Administration. (3-0-3); on demand. Prerequisite:** GOVT 351 or consent of instructor. A study of personnel utilization; concepts, principles and practice of the merit system; leadership; decision-making processes; and motivation of public employees.

**GOVT 354. Congress and the Federal Bureaucracy. (3-0-3); II. Prerequisite:** GOVT 141 or consent of instructor. A study of the role of Congress and federal bureaucracy in American government. Emphasis is placed on historical and comparative analysis of these institutions since 1950.

**GOVT 355. Women and Politics. (3-0-3); II in alternate years. Prerequisite:** GOVT 141 or permission of instructor. Participation of women in American government. Gender differences in political attitudes and voting; impact of electoral laws on election of women; and impact of women on creation and implementation of policy.

**GOVT 360. United Nations and World Organizations. (3-0-3); II. A study of the evolution of international organizations from the League of Nations to the United Nations and of the contemporary problems and issues of present world organizations.**

**GOVT 362. Current World Problems. (3-0-3); I, III. A study of major international problems since World War II, with emphasis on Russian-American relations, regional political conflicts, and major world issues including food, population, and human rights policies. This course satisfies area studies-social and behavioral sciences for general education.**

**GOVT 364. International Relations. (3-0-3); I.**

**Prerequisites:** GOVT 360 or GOVT 362, or consent of instructor. A study of international relationships in theory and practice; concepts of power and its application; machinery of foreign policy making and implementation; world politics and law; and the world community.

**GOVT 367. Politics of International Economic Relations. (3-0-3); I in alternate years. Prerequisite:** GOVT 360 or 362 or consent of instructor. Study of essential issues and contending analytical frameworks. Includes examination of politics of economic relations of the U. S., Japan, Europe, and between the "North" and "South."

**GOVT 372. Political Geography. (3-0-3); II. A study of the principles and concepts of political geography and their application to an understanding of political phenomenon world wide. See GEO 366.**

**GOVT 373. Introduction to Women's Studies. (3-0-3); I, II. Prerequisites:** Completion of the (9 hour) general education

*requirement in English and literature or consent of instructor.* A survey course designed to develop students' awareness of women's literature, poetry, contributions to science, and history, as well as an introduction to feminist theory. Women scholars of all nations and races will be highlighted.

**GOVT 381. Methods of Political Inquiry.** (3-0-3); I, II. *Prerequisite: GOVT 141, 210, 230, and junior standing or consent of instructor; CIS 201 recommended.* An introduction to the basic concepts and methods of the logic of political inquiry and empirical research, with an emphasis on understanding the fundamental perspectives of political inquiry and the use of basic empirical and computer techniques to conduct political inquiry.

**GOVT 389. Honors Seminar.** (3-0-3); on demand. *Prerequisite: Open only to juniors and seniors in the honors program.* An analysis and discussion of political ideas, institutions, and policies. Topics will vary from semester to semester.

**GOVT 399. Selected Topics in Government.** (3-0-3); on demand. *Prerequisites, if any, will depend upon the course offered.* Special courses which supplement regular course offerings. May be repeated if the subtitle indicates a different course is being offered.

**GOVT 476. Special Problems in Government.** (1-3 hours); on demand. *Prerequisite: Consent of instructor and Senior standing.* Original research project or readings in a particular subject area of government and politics. Open only to Government majors and minors with senior standing.

**GOVT 492. Washington Center Seminar Program.** (3 hours); I, II, III. *Prerequisites: GOVT 141 and Junior standing.* A two-week intensive study course in Washington, D. C., during January, May, or August on major current legal, political, domestic and foreign policy issues. Prior approval of chair is required.

**GOVT 494. Washington Center Internship Program.** (15 hours); I, II, III. *Prerequisites: GOVT 141 and Junior standing.* A semester-long work study experience in a congressional or administrative agency office in Washington, D. C. Prior approval of chair is required. Only 6 semester hours of this internship may be used in satisfaction of Government major or minor elective credit.

**GOVT 496. Frankfort Legislative Intern Program.** (15 hours). Five months of work study experience with the Kentucky General Assembly during its biennial sessions. Open to all MSU students, but the selection of interns will be made by program personnel. Prior approval of chair is required.

**GOVT 498. Local, State, and National Government Internship.** (3 hours); on demand. *Prerequisites: GOVT 141 and Junior standing. GOVT 242 for state and local internships.* A supervised work study experience in local, state, and national government. Prior approval of chair is required.

**GOVT 499C. Senior Seminar.** (3-0-3); I, II. *Prerequisites: GOVT 381 and senior standing.* A capstone course for senior government majors in which students will read and analyze specialized literature in political science, conduct research projects, and formally present their research findings. *This course satisfies the integrative component for general education.*

**GOVT 576. Directed Study in Government.** (1-3 hours); on demand. *Prerequisites: Consent of instructor and Senior or Graduate standing.* Original research project or readings in a particular subject area of government and politics.

**GOVT 599. Selected Topics in Government.** (3-0-3); on demand. *Prerequisites: Consent of instructor and Senior or Graduate standing.* Special courses which supplement regular

course offerings. May be repeated if the subtitle indicates a different course is being offered. Additional prerequisites, if any, will depend upon the course offered.

## Graphics Communications Technology

**GCT 102. Graphic Arts I.** (1-4-3); I. A survey course covering the broad practices, techniques and problems of the graphic arts industry. Study and experience include history, design and layout, composition methods, image reproduction, screen process and bindery applications.

**GCT 103. Fundamentals of Technical Graphics.** (1-4-3); I, II. A study of the principles and techniques of communicating ideas by means of graphic representation.

**GCT 202. Graphic Arts II.** (1-4-3); II. *Prerequisite: GCT 102.* An advanced course for students to apply the principles and competencies developed in the initial course. Units include automatic press operation (letter-press and offset), bindery operations, and darkroom procedures for photography and photographic screen process applications to the graphic arts industry.

**GCT 203. Technical Drawing II.** (1-4-3); I, II. *Prerequisite: GCT 103.* Breadth and depth are derived from the background of principles and techniques developed previously in technical drawing. Focus on working drawings.

**GCT 204. Descriptive Geometry.** (2-2-3); I. *Prerequisite: GCT 203.* The historical and theoretical background for technical drawing and the study of graphic problem solving.

**GCT 215. Computer Aided Drafting.** (1-4-3); I, II. *Prerequisites: GCT 103 and GCT 203.* The study and application of producing 2 and 3 dimensional drawings on different CAD systems. Costs, software applications, advantages and disadvantages of a CAD system are also discussed.

**GCT 301. Tool Layout and Design.** (2-2-3); I (EVEN). *Prerequisite: GCT 203.* The layout and design of machine tool jigs and fixtures in working drawing format.

**GCT 302. Offset Lithography.** (1-4-3); II. The study of the history and fundamentals of photo offset lithography in the graphic arts industry. Experience is achieved in copy (hot or cold type), darkroom procedures (line copy and halftone film developing), stripping/plate making, press operation, and other facets relating to the industry.

**GCT 303. Technical Illustration.** (2-2-3); II. *Prerequisite: GCT 103.* A study of the principles, practices and techniques used in industry to illustrate complex mechanisms in pictorial form.

**GCT 305. Housing.** (2-2-3); on demand. *Prerequisite: GCT 103 or consent of instructor.* Instruction centers around the problems, practices, and techniques of the housing industry, including historical development. Focus is residential design/drafting.

**GCT 315. Computer Aided Design.** (1-4-3); II. *Prerequisites: GCT 103, 203, and 215.* Content will include advanced dimensioning techniques, utilization of attributes, 3-D design and modeling, illustration, presentations, simulation, and programming.

**GCT 322. Photography.** (1-2-2); on demand. Introductory course emphasizing the techniques and mechanics of photography as they apply to composition and darkroom procedures. Students will provide their own equipment and supplies (focusing camera, film, and enlarging paper).

**GCT 350. Machine Composition I.** (1-4-3); on demand. *Prerequisite: Consent of instructor.* An introductory course of

theory and practical involvement relating to computer image generated type styles and sizes as indicated on a properly prepared layout of the job elements. The course will cover background of direct entry, VDT, and newer machine principles as they are marketed and available to the graphic arts industry.

**GCT 351. Graphic Duplication. (1-2-2); on demand.**

**Prerequisite:** For industrial education majors, GCT 202. A survey of the use of various methods and devices of the graphic arts currently used in the typical office or in-plant reproduction center. Experience will be gained in the preparation of direct and indirect methods of producing graphic images.

**GCT 403. Machine Drawing and Design. (2-2-3); I odd.**

**Prerequisite:** GCT 301. Mathematical and graphic solution of problems involving the principles of machine elements. A study of motion of linkages, velocities, and acceleration of points within a link mechanism; layout methods for designing cams, belts, pulleys, gears and gear trains.

**GCT 404. Architectural Drawing. (2-2-3); on demand.**

**Prerequisite:** GCT 305. A technical course covering the fundamental principles, techniques, and practices of architecture. Emphasis on commercial.

**GCT 450. Machine Composition II. (1-4-3); on demand.**

**Prerequisite:** GCT 350. A continuation/follow-up to GCT 350--Machine Composition I, concentrating on the advanced commands and intricate facets of computer image generated copy. A live job involvement to simulate an actual industrial experience in the classroom environment is the core of learning.

**GCT 405. Civil Drafting. (2-2-3); II (odd years).**

**Prerequisites:** GCT 204, GCT 215, MATH 141 or equivalent. Computerized drawings involving roadways, bridges, large developments, plats, and deeds.

## Health

**HLTH 150. Personal Health. (2-0-2); I, II, III.** (Course not accepted as credit toward a major or minor.) Required for all education students. Emphasis upon wellness and developing self-responsibility for achieving a healthful lifestyle.

**HLTH 151. Wellness: Theory to Action. (3-0-3); I, II, III.** An understanding of the multifaceted nature of wellness, identify their current health status, and acquire knowledge of methods or techniques which can be used to promote positive change and optimal well-being. *This course satisfies area studies-practical living for general education.*

**HLTH 160. Introduction to Health. (3-0-3); III.** History, philosophy, principles, dimensions, evaluation and future of the profession of health.

**HLTH 203. Safety and First Aid. (3-0-3); I, II, III.** Safety education and first aid care for victims of accident or sudden illness.

**HLTH 205. Physiological Health. (3-0-3); II. Prerequisite:** PSY 154. Health psychology: foundations, biopsychosocial factors, psychoneuroimmunology, perspective.

**HLTH 206. Principles of Nutrition. (3-0-3); I, II.** Basic description of the elements of human nutrition, their function in the body, and food sources. Guide for healthy nutritional practices and nutritional needs throughout the life cycle. (See HS 201.)

**HLTH 230. Community Health. (3-0-3); II. Prerequisite:** HLTH 150 or HLTH 160. Foundations of health as applied to the community: population, health promotion, health protection, health services.

**HLTH 300. Health in the Elementary School. (2-1-2); II.** Elementary school health program; educational theory and methods as applied to health teaching on elementary school level. (Laboratory experiences are an integral part of course.)

**HLTH 301. Health, Safety, and Nutrition for Early Elementary. (2-0-2); I, II, III. Prerequisite:** HLTH 151. Focuses upon content, materials, and methodologies for teaching young children the principles and practices of health care, safety, and good nutrition.

**HLTH 302. Evaluation in Health Education and Health Promotion. (3-0-3); I.** Course emphasis is upon knowledge and statistical methods for measurement, data collection, and processes for program evaluation exposing the student to research, field testing, and computer analysis.

**HLTH 304. Health in the Secondary School. (2-1-2); I. Prerequisite:** Admission to the teacher education program. Secondary school health program, educational theory and methods as applied to health teaching on secondary school level. (Laboratory experiences are integral part of course.)

**HLTH 310. Health and Wellness Promotion. (3-0-3); I.** Emphasis on the study of the continual balancing of the different dimensions and the dynamic pursuit of holistic human needs--physical, spiritual, social, emotional, intellectual and occupational.

**HLTH 360. Family Health. (3-0-3); II.** Family and family living; nature of family, love, marriage preparation, marriage, parenthood issues.

**HLTH 370. Pre-practicum. (1-0-1); II. Prerequisites:** Junior standing and major in Health Promotion (non-teaching) with 24 semester hours minimum completed. Meetings and individual conferences leading to a placement in an approved agency.

**HLTH 377. Clinical and Field Experiences in School Health (K-12). (0-4-2); I, II. Prerequisites:** Admission to teacher education program, HLTH 300 and HLTH 304. Clinical and field experiences related to planning, implementing, and evaluating health instruction.

**HLTH 425. Planning and Managing Health/Wellness Promotion Programs. (3-0-3); II. Prerequisite:** HLTH 310 and CIS 201. The course emphasizes knowledge, methods in planning, designing, managing and improving health/wellness promotion programs.

**HLTH 430. Consumer Health. (3-0-3); II.** Analysis of the selection, purchase, and use of various health-related products, services, insurance policies, and/or health care facilities which impact individual health throughout the life span.

**HLTH 470. Practicum. (0-30-15); I. Prerequisites:** HLTH 370, Senior standing, and 2.5 or above GPA. Practical full-time experience under professional supervision in a selected and approved health agency.

**HLTH 475. The School Health Program. (3-0-3); I.** All aspects of elementary and secondary level school health: philosophy, organization and administration, environment, services, education, evaluation, the school child.

**HLTH 477. Field Experience in Health. (0-6-3); I, II, III. Prerequisite:** HLTH 230. On-site work experience in a community health setting under qualified supervision. (Laboratory experiences are integral part of course.)

**HLTH 490. Issues in Health. (3-0-3); II. Prerequisites:** Health major or minor or consent of instructor. An overview of the major health issues throughout history with emphasis upon the Twentieth Century.

**HLTH 499C. Senior Seminar in Health Promotion. (3-0-3); I. Prerequisites:** Senior standing in Health Promotion.

*Students are required to take this course in the fall semester prior to HLTH 470.* The course is designed to document and refine student progress relative to the professional preparation and practice of health promotion. Each student will integrate theory with practice through the design and completion of a health promotion project and a student portfolio. Graduate and professional job opportunities will be explored. Students will complete preparation leading to placement in an approved agency for the HLTH 470 Practicum. *This course satisfies the integrative component in Health Promotion for general education.*

**HLTH 499D. Senior Seminar in Health Education. (1-0-1); I, II. Prerequisite:** Senior standing and admission to the professional semester in education. *To be taken during last semester of on-campus work. Co-requisite: EDSE 415.* A culminating experience in which students will review and apply the basic principles, strategies and theories applicable in the (K-12) health classroom/curriculum which will facilitate the successful completion of the professional semester. *This course satisfies the integrative component for health education majors for general education.*

**HLTH 508. General School Safety. (3-0-3); I, II, III. Prerequisite:** Senior or graduate classification. Review of principles and practices in establishing and maintaining a healthful and safe school environment.

**HLTH 518. Use and Abuse of Drugs. (3-0-3); I, II, III.** Survey of the field of psychoactive drugs with emphasis upon behavioral effects of these agents.

**HLTH 576. Special Problems in Health. (1 to 3 hrs.); I, II, III. Prerequisite:** Senior or graduate classification. Intensive study of an approved, specific health problem, under direction of instructor.

**HLTH 599. Workshop. (1 to 3 hrs.); I, II, III.** Workshop for specifically designated task orientation in health. May be repeated in additional subject areas. A maximum of six semester hours may be earned under this course number.

## History

**HIS 201. Global Studies. (3-0-3); I, II.** This course will introduce students to the study of world cultures and provide an understanding of contemporary global issues. Using historical and literary texts, CDrom technology and films in a multimedia approach, students will examine selected social, political, economic, and cultural phenomenon in the context of world history. *This course satisfies the area studies-humanities for general education.*

**HIS 202. American Studies. (3-0-3); I, II.** Entry level course using historical and literary texts and multimedia approaches to familiarize students with the nation's social, political, economic, and cultural development. *This course satisfies the area studies-humanities for general education.*

**HIS 210. Early World History. (3-0-3); I, II, III.** Analysis of historic themes and issues up to the end of the religious wars.

**HIS 220. Early American History. (3-0-3); I, II, III.** Analysis of historic themes and issues from the Age of Discovery through the Civil War.

**HIS 250. Practicing History. (3-0-3); I, II. Prerequisite:** Permission of the department. Entry level course for majors and minors. Students complete book reviews, automated library searches, discuss career options, learn about historiography, and use historical methods in writing and oral communication. Student portfolios are initiated in this class.

**HIS 300. Colonial America. (3-0-3); on demand.**

**Prerequisite:** HIS 250. Critical analysis of events from The Age of Discovery to the Revolutionary War.

**HIS 301. American Revolution and Federal Period. (3-0-3); on demand. Prerequisite:** HIS 250. Critical analysis of events from the American Revolution to the Jeffersonian era.

**HIS 302. The Age of Jackson. (3-0-3); on demand.**

**Prerequisite:** HIS 250. Analysis of national, political, and social movements when America sought compromise but found Civil War.

**HIS 303. The Civil War and Reconstruction. (3-0-3); II.**

**Prerequisite:** HIS 250. The role of the southern states in the rebirth of the American nation.

**HIS 304. The United States, 1876-1900. (3-0-3); on demand. Prerequisite:** HIS 250. Emphasis is placed on the rise of big business and America as a world power.

**HIS 305. The United States, 1900-1939. (3-0-3); on demand. Prerequisite:** HIS 250. The story of the American people from the Progressive Period through the New Deal.

**HIS 306. The United States, 1939-present. (3-0-3); on demand. Prerequisite:** HIS 250. America from World War II end of Cold War. Emphasis is placed on social conditions and issues.

**HIS 307. Vietnam and Watergate. (3-0-3); II. Prerequisite:** HIS 250. Study of the Vietnam War and the Watergate scandal in the context of policy developments in America since 1945.

**HIS 310. African-American History. (3-0-3); I. Prerequisite:** HIS 250. African-American history from the origins of slavery to contemporary times.

**HIS 311. Native American History. (3-0-3); II. Prerequisite:** HIS 250. Historical development of native Americans from their entrance into this hemisphere to current conditions and issues.

**HIS 312. Women in American History. (3-0-3); II.**

**Prerequisite:** HIS 250. Experiences and perceptions of women throughout American history. Significant roles and issues are emphasized.

**HIS 313. Religion in American History. (3-0-3); I.**

**Prerequisite:** HIS 250. Religion's interaction with facets of American society. The role of religion in molding the nation.

**HIS 317. United States Foreign Relations. (3-0-3); on demand. Prerequisite:** HIS 250. Survey of foreign relations of the United States from its conception to United Nations involvement.

**HIS 318. American Military History. (3-0-3); on demand.**

**Prerequisite:** HIS 250. Origins, course, and effects of American involvement in war.

**HIS 319. American Life and Thought. (3-0-3); on demand.**

**Prerequisite:** HIS 250. Survey of American intellectual heritage from Puritanism to the contemporary era.

**HIS 321. The American Frontier. (3-0-3); I. Prerequisite:** HIS 250. The westward movement and the shaping of American life and institutions.

**HIS 322. History of Appalachia. (3-0-3); II. Prerequisite:** HIS 250. A social, economic, and political history of the people and the events of the Appalachian Mountains.

**HIS 323. History of Kentucky. (3-0-3); I, III.** Colonial birth to the creation of the Commonwealth with emphasis on constitutional and social development.

**HIS 325. History of the South. (3-0-3); on demand.**

**Prerequisite:** HIS 250. A study of southern sectionalism and the ongoing development of regional characteristics.

**HIS 351. England to 1688. (3-0-3); I. Prerequisite: HIS 250.** The political, social, and economic institutions of England through the fall of the Puritan Commonwealth.

**HIS 352. England since 1688. (3-0-3); II. Prerequisite: HIS 250.** Study of England from the Restoration to the rise of the British Commonwealth.

**HIS 353. Russia to 1917. (3-0-3); I. Prerequisite: HIS 250.** The story of Russia from Kievan times to the overthrow of the Romanov dynasty.

**HIS 354. Russia since 1917. (3-0-3); II. Prerequisite: HIS 250.** Detailed account of Soviet Russia from revolution through the end of the Cold War.

**HIS 355. Modern Germany. (3-0-3); on demand. Prerequisite: HIS 250.** History of Germany from unification to the present in the context of European and world events.

**HIS 356. Medieval Europe. (3-0-3); on demand. Prerequisite: HIS 250.** Western history from the collapse of Rome to the Renaissance of the sixteenth century.

**HIS 357. The Renaissance and Reformation. (3-0-3); on demand. Prerequisite: HIS 250.** A social and intellectual history of the beginning of modern Europe.

**HIS 358. Revolutionary Europe. (3-0-3); on demand. Prerequisite: HIS 250.** History of Europe from the Age of Absolutism to the collapse of the Napoleonic Empire.

**HIS 359. Nineteenth Century Europe. (3-0-3); on demand. Prerequisite: HIS 250.** The politicians, nationalistic trends, and unification movements leading to World War I.

**HIS 360. The World, 1914-1939. (3-0-3); on demand. Prerequisite: HIS 250.** Study of World War I and the interwar years with special emphasis on communism, fascism, and nazism.

**HIS 361. The World, 1939-present. (3-0-3); on demand. Prerequisite: HIS 250.** Detailed survey of World War II, the Cold War, and contemporary events.

**HIS 370. African History. (3-0-3); II. Prerequisite: HIS 250.** Focus on early African states, the slave trade era, the rise and fall of imperial empires, and post independence events.

**HIS 371. Traditional China. (3-0-3); I. Prerequisite: HIS 250.** Survey of early Chinese civilization and its institutions.

**HIS 372. Modern China. (3-0-3); II. Prerequisite: HIS 250.** Survey of Chinese history since the nineteenth century.

**HIS 373. Japanese Civilization. (3-0-3); on demand. Prerequisite: HIS 250.** Survey of Japanese history from the beginning of its civilization to its rise as world power.

**HIS 374. The Middle East. (3-0-3); I. Prerequisite: HIS 250.** Survey of the Moslem world beginning with the eighth century and culminating in the present Middle Eastern situation.

**HIS 376. Ancient History. (3-0-3); II. Prerequisite: HIS 250.** The earliest civilizations of the Nile and the Fertile Crescent and their impacts on western civilization.

**HIS 379. Latin American History. (3-0-3); II. Prerequisite: HIS 250.** The Indian background, the rise and fall of the Iberian empires, and major events since independence.

**HIS 389. Honors Seminar. (3-0-3); on demand. Prerequisite: Permission of the department.** Analysis of historical events, and circumstances, their origins and effects.

**HIS 399. Selected Topics in History. (3-0-3); I, II. Prerequisite: HIS 250 and at least one other 300 level history course.** Required of each history major. Common research effort will be undertaken.

**HIS 450. Teaching Social Studies. (3-0-3); I, II. Prerequisite: HIS 250 and at least three HIS classes at 300**

**level. Admission to Teacher Education Program.** Analysis of contemporary approaches and resources used to teach social studies at the secondary level. Impact of educational reform is emphasized. Credits are not applied to history major or minor.

**HIS 499C. Senior Seminar in History. (3-0-3); I. Prerequisites: Senior standing history majors; HIS 250 and 399, or permission of department.** Each student will develop a research project that integrates methodological and substantive aspects of the contemporary discipline. Each will prepare and present a paper to fellow students and a department committee. Course provides opportunity for review of professional and graduate opportunities and completion of student portfolio. *This course satisfies the integrative component for general education.*

**HIS 544. Kentucky Historical Tours. (3-0-3); I. Prerequisite: Permission of the department.** Opportunity to see and hear about Kentucky's historic places. Credit cannot be applied to history major or minor.

**HIS 576. American History, Directed Study. (1 to 3 hours); on demand. Prerequisite: Permission of department.** Open only to history majors and minors. Opportunity to extend work into an area of interest.

**HIS 577. European History, Directed Study. (1 to 3 hours); on demand. Prerequisite: Permission of department.** Open only to history majors and minors. Opportunity to extend work into area of interest.

**HIS 578. Nonwestern History, Directed Study. (1 to 3 hours); on demand. Prerequisite: Permission of department.** Open only to history majors and minors. Opportunity to extend work into area of interest.

**HIS 599. Selected Topics in History. (3 hours); on demand. Prerequisite: Permission of department.** Open only to history majors and minors. Special course to supplement regular offerings.

## Honors

**HON 101. The Age of Classicism. (3-0-3); I. Prerequisite: Admission to the Honors Program.** An interdisciplinary study of great books and influential ideas from Greek and Roman contributions in the humanities and in the natural and social sciences. *This course satisfies three hours of an area studies-humanities, natural and mathematical sciences, or social and behavioral sciences for general education.*

**HON 102. The Age of Faith. (3-0-3); II. Prerequisite: Admission to the Honors Program and completion of HON 101.** An interdisciplinary study of great books and influential ideas of the European Middle Ages, emphasizing contributions in the humanities and in the natural and social sciences. *This course satisfies three hours of an area studies-humanities, natural and mathematical sciences, or social and behavioral sciences for general education.*

**HON 201. The Age of Enlightenment. (3-0-3); I. Prerequisite: Admission to the Honors Program and completion of HON 101 and HON 102.** An interdisciplinary study of the most important ideas and movements in the 16-17-18th century Western culture (literature, art, and music), religion, philosophy, social theory, and science with the emphasis on the achievements of the Age of Enlightenment. *This course satisfies three hours of an area studies-humanities, natural and mathematical sciences, or social and behavioral sciences for general education.*

**HON 202. The Age of Uncertainty. (3-0-3); II. Prerequisite: Admission to the Honors Program and completion of HON 101, HON 102, and HON 201.** An interdisciplinary study of great

books and influential ideas of the 19th and 20th centuries in the humanities and in the natural and social sciences. *This course satisfies three hours of an area studies-humanities, natural and mathematical sciences, or social and behavioral sciences for general education.*

## Human Sciences

**HS 101. Nutrition and Well Being. (3-0-3); I, II.** The relationship of nutrition to well-being will be studied. Emphasis will be placed on the physiological, socioeconomic, psychological, and political factors influencing food behavior and nutrient intake. Evaluation will be made of current nutrition information by application of basic nutrition principles and scientific reasoning. Individual and group food intakes will be analyzed. *This course satisfies the area studies-practical living for general education.*

**HS 103. Interior Graphics I. (2-2-3); I.** Principles and techniques of drafting. Communication of design ideas by graphic representation of plans and perspectives. Introduction to computer-assisted design system.

**HS 104. Interior Graphics II. (1-4-3); II. Prerequisite: HS 103 or consent of instructor.** Continuation of previous drafting course, giving broader depth and scope to skills and knowledge in graphics. Experience on computer-assisted design system.

**HS 130. Elementary Food Preparation. (2-2-3); I.** Fundamental principles of food preparation. Efficient methods of preparation stressed in laboratory practice. Knowledge gained of nutritional food values and food characteristics as they relate to preparation techniques.

**HS 132. Introduction to Hotel, Restaurant, and Institutional Management. (3-0-3); I.** An introduction to concepts and principles of hospitality operations by type; guest relations, basic management principles; and organizations of hospitality management services.

**HS 136. Dining Room Procedures and Beverage Control. (3-0-3); II. Taught alternate years.** Principles and practices of food and beverage management. Principles of dining room service, supervision, equipment, personnel responsibilities, and customer relations. Beverage control: purchasing, receiving, storing, and issuing procedures.

**HS 141. Introduction to Textiles and Clothing. (2-3-3); I.** An introduction to properties of yarns, fabrics, and finishes as related to use in clothing. Basic principles of clothing construction, selection, alteration and fitting of commercial patterns. Special emphasis will be placed on current technological trends in selection, use and care of sewing equipment.

**HS 200. Family Relations. (3-0-3); I.** Includes the changing roles of all family members' adjustments needed in marriage; family functions through the family life cycle.

**HS 201. Principles of Nutrition. (3-0-3); I, II.** Basic description of the elements of human nutrition, their function in the body, and food sources. Guide for healthy nutritional practices and nutritional needs throughout the life cycle.

**HS 220. Survey of Interior Design. (2-2-3); I. Taught alternate years. Prerequisite: HS 104.** Study of the principles and elements of design with emphasis on color and lighting. Study of furniture selection and arrangement.

**HS 231. Meal Management. (2-2-3); II. Prerequisite: HS 130.** Food for the family and consumer is studied in relation to basis for selection, comparative costs, nutritional values, storage requirements, and aesthetics of meal planning and service.

**HS 234. Computer Assisted Food Service Management. (2-2-3); I. Prerequisite: HS 132.** A systems approach, including the utilization of software for nutritional analysis, menu planning, food cost accounting, and inventory control.

**HS 239. Cooperative Education. (1 to 12 hours); I, II, III.** A supervised work experience for students planning careers in human sciences upon completion of the associate degree program.

**HS 241. Clothing Production Studio. (2-3-3); Taught alternate years. Prerequisite: HS 141 or consent of instructor.** Advanced construction and basic tailoring. Innovative and couture techniques.

**HS 250. Visual Merchandising. (2-2-3); I.** A study of the objectives, principles, and methods of visual merchandising. Emphasis is placed on the visual merchandising function within a retail store. Students design window displays and select interior display fixtures for retail stores.

**HS 252. Problems in Interior Design. (2-2-3); II. Taught alternate years.** Involves the study of practical experience in selection, arrangement, and presentation of colors, fabrics, furnishings, and cost estimates for a client. Lecture, laboratory, field trips.

**HS 253. Child Growth and Development. (3-2-4); I.** Behavioral characteristics in growth and development; positive approach to child guidance; importance of the role of parents and child care givers. Directed practicum in observation of pre-school children.

**HS 254. Preschool Administration. (3-2-4); II. Taught alternate years. Prerequisite: HS 253.** The study of the organization and administration of pre-school programs; role of parenthood education; supervised experiences in planning and guiding children's activities in a pre-school program.

**HS 280. Apparel Analysis. (3-0-3); II.** A study of the design principles on which apparel design is based, fashion terminology, quality manufacturing methods, and wardrobe planning. Clothing requirements for all stages of the life cycle, including clothing needs of the physically handicapped, are studied.

**HS 290. Introduction to the Apparel Industry. (3-0-3); I.** A study of the organization and operation of the fashion industry. Includes the history of the European and American fashion industries, designers, fiber and fabric producers, apparel and accessory manufacturers, fashion market centers, and fashion publications.

**HS 323. Textiles. (2-2-3); II.** A study of the selection and evaluation of textile products used in apparel, commercial and residential interiors. State and federal regulations, codes, and testing procedures are emphasized. Basic laboratory identification and performance tests are included.

**HS 327. Maternal, Infant, and Child Nutrition. (3-0-3); Taught alternate years. Prerequisite: HS 201.** Addresses nutritional needs during pregnancy, lactation, infancy, and early childhood, clinical experience required in health care facilities. Selection, application, and evaluation of nutritional data concerned with infancy and child growth.

**HS 328. Nutrition in the Life Cycle. (2-2-3); Taught alternate years. Prerequisite: HS 201.** A study of factors determining nutrient requirements for each of the physiological age groups during the life cycle.

**HS 329. Quantity Food Preparation. (2-5-4); II.** Principles and techniques of quantity food preparation. Use of standardized recipes and institutional equipment. Must be followed by HS 331 in next semester.

**HS 330. Quantity Food Purchasing. (3-0-3); Taught alternate years, or concurrently with HS 334.** Institutional purchasing; considers principles and methods of purchasing food and supplies for commercial and institutional food service units with emphasis on specifications, standards, inventory, and factors affecting quality and cost control.

**HS 331. Food Production Management. (1-6-4); II.** *Prerequisite: HS 329 preceding semester.* Principles of scheduling and supervision of food production.

**HS 332. Field Experience in Human Sciences. (1 to 4 hrs.); I, II.** Field training in home economics arranged with consent and supervision of the instructor. Student is visited on the job.

**HS 333. Diet Therapy. (2-2-3); Taught alternate years.** *Prerequisites: HS 201.* The role of diet in the prevention and treatment of disease. Course will address dietary modifications, menu writing for modified diets, nutritional analysis, and nutritional needs during the life cycle. Clinical experience in health care settings.

**HS 335. Equipment and Facilities Planning. (3-0-3); Taught alternate years.** Selection of equipment and furnishings to meet the needs of different types of food services in relation to function, maintenance, efficient layout, specifications, and material. Each student plans and designs a menu and physical layout for a food service unit.

**HS 336. Institutional Organization and Management. (3-0-3); Taught alternate years.** *Prerequisites: MNGT 301, HS 329, 331.* Administrative functions within a food service system. Emphasis on management responsibilities, budgeting, legislation, labor unions, time management, conflict management, personnel problems, and food delivery systems.

**HS 338. Concepts of Maintenance, Engineering, and Housekeeping for Hospitality Facilities. (2-2-3); Taught alternate years.** This course gives potential hospitality management personnel an understanding of maintenance, general engineering, and housekeeping problems. Topics include: fundamentals of housekeeping, mechanical systems, and building components of the physical plant. Special emphasis will be placed on the organization of the housekeeping and engineering departments and the basic principles of properties management.

**HS 340. Intermediate Textiles. (2-2-3); I. Taught alternate years.** *Prerequisite: HS 323.* Advanced study of textile products and the raw materials from which they are made. The influence of fiber, yarn, construction method, coloration method, and finish is examined in relationship to performance and quality evaluation. Laboratory identification and performance testing included.

**HS 344. Historic Costume. (3-0-3); I.** The development of costume through the ages as an expression of social, economic, and cultural life of the time, and as a contribution to current fashion.

**HS 349. Clothing and Culture. (3-0-3); II. Taught alternate years.** A study of the cultural, social, psychological and economic aspects of clothing needs and selections of individuals and groups. Emphasis of the study of clothing and appearance within larger cultural contexts in which these processes occur.

**HS 351. Housing. (2-2-3); II.** Historic development of housing in the United States. Implications for housing from social and economic changes. Trends in the field of housing.

**HS 353. Program Planning for Infants and Toddlers. (2-0-2); II.** *Prerequisite: HS 255.* Current programs, techniques, environments and research relating to infant stimulation. Emphasis on home intervention, theory and practices.

**HS 354. Preschool Programs and Environments. (2-2-3); I.** The research and study of early childhood development curriculum models, activities, plans and implement programs in a variety of environments.

**HS 357. Care and Development: Prenatal, Infants, and Toddlers. Taught alternate years.** *Prerequisite: HS 253 or consent of instructor.* Prenatal and postnatal care for mothers, development of the fetus and care of the infant through two years of age.

**HS 358. Public Policy for Children and Families. (3-0-3); II.** The study of principles that direct action, how public issues affect quality of life in varying ways for children and families, and the need for citizen involvement in public policy to strengthen the democratic process.

**HS 363. Family Economics. (3-0-3); II.** Study of decision-making as it relates to the family's utilization of its financial resources, budgeting skills and practices in the economy.

**HS 370. Residential Interior Design, Studio I. (3-2-3); I.** *Prerequisite: HS 220.* Planning a residential interior from problem through analysis of a family's needs for each area; the design idea from conception through finished presentation drawings. Emphasis on interior components, products available, and functional and economical design.

**HS 381. History of Interiors I. (3-0-3); I.** A study of the development of furnishings, interiors, and architecture from ancient history through the 18th century.

**HS 382. History of Interiors II. (3-0-3); II.** The development of furniture styles and interiors and the influence of architecture from American colonization through the twentieth century. Miscellaneous styles are studied.

**HS 388. Methods of Curriculum Development. (3-0-3); II.** *Prerequisites: VOC 207, or permission of instructor.* A comprehensive study of current curriculum content in Vocational Education. Emphasis on modifying and developing new curricula. (See AGR 388 and IET 388.)

**HS 392. Methods of Instructional Technology. (2-2-3); I, III.** *Prerequisite: Admission to the Teacher Education Program and VOC 207.* Holistic approach to curriculum development with an introduction to the use of technology to develop and enhance curriculum and instruction. A portfolio will be maintained and presented at the end of the class. (See AGR 392 and IET 392.)

**HS 410. Therapeutic Nutrition. (2-2-3); II. Taught alternate years.** *Prerequisites: CHEM 301, HS 333.* Variation in the nutrient supply and demand in various health and disease states. The role of appropriate dietary intervention and nutritional support in the clinical setting. Clinical experience required in health care facilities.

**HS 434. School Lunch Seminar. (1 hr.); on demand.** Techniques and problems related to the school lunch program.

**HS 435. Cost Controls in Hotel, Restaurant, and Institutional Management. (3-0-3); I. Taught alternate years.** *Prerequisites: HS 329, HS 330, and HS 331.* Examination of cost control techniques applied to the hospitality industry. Topics include: food cost, beverage control, labor cost, development and analysis of financial statements, budgeting, cash management, control, and operational systems.

**HS 436. Hotel, Restaurant, and Institutional Marketing Management. (3-0-3); II. Taught alternate years.** An overview of the discipline of marketing as it applies to the hospitality industry. The primary aim is to understand how marketing strategy is devised, internal resources, and the external operating environment. A second aim is to show how

the special nature of services affects the development of marketing strategies in the hospitality industry.

**HS 437. Advanced Nutrition. (3-0-3); II. Taught alternate years. Prerequisites:** BIOL 232, CHEM 301, HS 201 and 328. An in-depth review of the pathways of absorption, digestion, and metabolism of essential nutrients.

**HS 438. Experimental Foods. (2-2-3); II. Taught alternate years. Prerequisite:** HS 130 and CHEM 201. Principles of sensory evaluation of food; review of principles of food science and experimental corroboration.

**HS 439. Cooperative Education. (1 to 12 hours); I, II, III.** Work experience with an in-depth exposure representative of the student's academic level and experience analogous to a senior level course.

**HS 443. Community Dietetics. (2-2-3); II. Prerequisites:** HS 201, HS 328, HS 437, and HS 333. Study of environmental, cultural and economic influences on food consumption patterns of groups. Survey of nutrition programs of federal, state, and local agencies. Emphasis on planning, assessing, implementing and evaluating nutrition programs in supervised clinical experiences.

**HS 450. Merchandising Applications. (2-2-3); II. Taught alternate years. Prerequisite:** HS 290. An analysis of essential concepts, practices and procedures related to profitable merchandising. Application of basic mathematical concepts, problem solving and terminology used by merchandisers and buyers. Computer simulation and applications to retail environment.

**HS 454. Life Management. (3-0-3); I. Taught alternate years.** Opportunities to study and practice life management skills via decision-making and to apply principles of life management in the use of time, energy and money throughout the family life cycle. Includes techniques for planning for the various stages of the life cycle.

**HS 457. Parenting. (3-0-3); Taught alternate years. Prerequisite:** 253 or consent of instructor. An examination of the parental roles in regard to current challenges, problems, and issues. Early intervention and family center relationships emphasized.

**HS 460. Merchandise Display and Promotion. (2-2-3); on demand. Prerequisite:** HS 250 or consent of instructor. Advanced theory and application of window display and interior store display, with actual experience in designing, presenting, and executing displays.

**HS 467. Trends and Issues in Early Childhood Development. (1-0-1); II.** The study of current trends and issues relevant to early childhood development with a consideration of historical, social, legal, ethical, political, legislative and health policies that impact on the early child development practicum. Taken prior to or during the professional semester.

**HS 470. Methods of Instruction. (3-0-3); I. Prerequisites:** Junior and senior standing in home economics and admission to the teacher education program. The principles of instructional methods which apply to the teaching of home economics subject matter which is included under the major program components of secondary family and consumer sciences education programs. (See AGR 470 and IET 470.)

**HS 475. Contract Design, Studio II. (3-2-3); II. Taught alternate years. Prerequisites:** HS 220 and 104. Planning and presenting professional commercial interior designs. Emphasis on functional design, budgets, product research, lighting design, acoustics, contracts, and business procedures.

**HS 476. Special Problems. (1 to 3 hrs.); I, II, III.** Supervised study of a problem in some phase of family and consumer sciences chosen by the student on the basis of individual need or interest.

**HS 477. Early Childhood Development Practicum. (4-12 hrs.); I, II. Prerequisites:** HS 355, HS 357, 457, and 467; or Co-requisite: HS 467. Upon completion of requirements of the precertification option; alignment of a scholastic standing of 2.5 on residence courses at MSU and 2.5 on all courses compiled in major; minimum of one semester residence or completion of option 2; attainment of cumulative grade point average of 2.0. Placement in a preschool classroom on the basis of one week placement for each credit hour. Observation, participation, teaching conferences with supervisor, co-curricular activities and conferences with supervising teacher are required.

**HS 478. Student Teaching Practicum. (12-0-12); I, II.** Each Student is assigned to an approved student teaching center offering comprehensive teaching experience in vocational family and consumer sciences.

**HS 490. Special Topics in Human Sciences. (1-3 hrs.); on demand. Prerequisite:** Department permission. A course designed to investigate specific topics of concern in specialized areas of human sciences.

**HS 499C. Senior Seminar. (2-0-2); I.** Identification of issues reflected in the current technical and professional literature, further understanding of the role and function of semi-professional and professional fields in human sciences. Preparation of transition from the role of student to role of professional in human sciences. Seminar discussion format is used. *This course satisfies the integrative component for general education.*

**HS 510. Preprofessional Practice in Clinical Dietetics. (1-40-6); I. Prerequisite:** All previous program requirements. Consists of supervised work experience with selected registered dietitians. Weekly written assignments by the student, supervisor evaluation reports, and visitation by program faculty will be used to monitor the student's progress. Clinical experience in general medical/oncology, surgery and rehabilitation, psychiatry and substance abuse, intensive care/coronary, pediatrics, and clinical dietetics staff relief.

**HS 531. Nutrition Education. (3-0-3); on demand.** The study of the application of basic principles of education applied to the teaching of nutrition. Lecture.

**HS 532. Preprofessional Practice in Community Dietetics. (1-40-6); II. Prerequisite:** All previous program requirements. Consists of supervised work experience with selected registered dietitians. Weekly written assignments by the student, supervisor evaluation reports, and visitation by program faculty will be used to monitor the student's progress. Supervised experience in extended care/geriatric nutrition, dialysis clinic, maternal and child supplemental foods, home health and maternal nutrition, staff relief, out-patient teaching and quality assurance.

**HS 536. Advanced Nutrition. (3-0-3); on demand. Prerequisite:** HS 329 or consent of instructor. In-depth study of nutrients in relation to normal nutrition; review of classical and current literature; practical application of findings.

**HS 537. Preprofessional Practice in Administrative Dietetics I. (1-40-6); I. Prerequisite:** All previous program requirements. Consists of supervised work experience with selected registered dietitians. Weekly written assignments by the student, supervisor evaluation reports, and visitation by program faculty will be used to monitor the student's progress. Concen-

tration on food production in a health care setting, salad production, bakery and desserts, meat and vegetable preparation, trayline and food distribution, menu planning, purchasing, and safety and sanitation.

**HS 538. Experimental Foods. (1-4-3); on demand.**

*Prerequisite:* HS 130 or consent of instructor. Experimental methods applied to food research through individual and class investigation; review and evaluation of published research.

**HS 540. Preprofessional Practice in Administrative**

**Dietetics II. (1-40-6); II. Prerequisite:** All previous program

*requirements.* Consists of supervised work experience with selected registered dietitians. Weekly written assignments by the student, supervisor evaluation reports, and visitation by program faculty will be used to monitor the student's progress.

Supervised experience in cafeteria and catering, food merchandising, for-profit menu planning and purchasing, food service accounting, school lunch and quality assurance.

**HS 541. Tailoring Techniques. (1-4-3); I. Prerequisite:** HS 241 or consent of instructor. Individual fitting problems and the resulting pattern alteration methods necessary for the construction of a tailored garment as well as advanced hand tailoring and couture techniques. Construction of a suit or coat required.

**HS 542. Socio-Psychological Aspects of Clothing. (3-0-3); II. on demand. Prerequisite:** 6 hrs. in clothing and textiles. Social, psychological, and economic factors in the selection and use of clothing.

**HS 545. Clothing Design in Draping. (1-5-3); II. Taught alternate years. Prerequisite:** HS 241. Original garments created by draping on the dress form. Dress form will be constructed in the course. Taught alternate years.

**HS 555. The Child and the Family. (3-0-3); on demand.** Environmental factors favoring family life and family interaction; stages of family life and the changing role of members.

**HS 557. Interior Decoration Projects. (1-4-3); on demand.** A lecture laboratory class with emphasis on projects for the home that can be utilized in vocational, occupational, and adult classes or in the home.

**HS 573. Curriculum Development in Family and Consumer Sciences. (3-0-3); I. Taught alternate years. Prerequisite:** Admission to Teacher Education Program. Development of middle grades, secondary, and post-secondary family and consumer sciences programs; review of family and consumer sciences curriculum at all grade levels for useful and gainful programs; a critical survey of resources; development of competency-based curriculum in the five areas of family and consumer sciences.

**HS 590. Creative Foods. (1-2-3); on demand.** The study and preparation of gourmet foods. Emphasis on foods from different cultures.

**HS 592. Foods for Special Occasions. (2-2-3); on demand. Prerequisite:** Permission of instructor and/or one food preparation course. A lecture-laboratory course with emphasis on planning, preparing, and serving foods for special occasions, including special diets, meal service, special equipment, and various budget levels. Arranged laboratories.

## Interdisciplinary Early Childhood Education

**IECE 301. At-Risk Infants and Toddlers I. (3-0-3); I.** Development and causes of difficulties experienced by at-risk infants and toddlers, as well as early intervention approaches to be used with these children and their families.

**IECE 345. Preschool Programs for Special Needs Children. (3-1-3); I.** This course will encompass the characteristics, needs, and assessment of exceptional children during the preschool years. Needs and involvement of families will be an important emphasis.

**IECE 410. The Role of the Teacher: Designing Language and Cognitive Activities for Diverse Groups. (3-0-3); I.** One of a block of three courses that will focus on knowledge, skills, and methodology necessary to develop the role of the early childhood teacher. The focus of this course is the development of cognitive and language activities.

**IECE 411. The Role of the Teacher: Creating a Learning Environment for Diverse Groups. (3-2-2); I.** How the learning environment is established to provide optimal learning experiences and to guide children in developing responsible behavior.

**IECE 412. The Role of the Teacher: Designing the Implementation Creative Play Activities for Young Children. (3-1-3); I.** The role of the early childhood teacher in implementing creative play activities for young children from birth to age five.

**IECE 425. Practiced Student Teaching. (12 credit hours); I, II, III. Prerequisite:** Admission to Teacher Education Program. Placement in an approved preschool setting on the basis of one week placement for each credit hour unit.

**IECE 457. Professional Assessment. (3-0-3); I, II, III. Prerequisites:** IECE 301, IECE 345, IECE 410, IECE 411, and IECE 412. This course has two components: assessment and certification portfolio preparation. Final course for students in the IECE certification preparation program, prior to the professional semester. Students will complete assessment for certification and finalize and professionalize their certification portfolio. Assessments required for teacher certification will be administered in this course.

## Industrial Education and Technology

**IET 100. World of Technology. (3-0-3); I.** An introduction to basic concepts of industry. The identification of the major industries and the development of an understanding of their impact upon society.

**IET 111. Basic Wood Technics. (2-2-3); on demand.** This is the beginning course in wood shop, consisting of theory and application with particular emphasis on individual and industrial values of wood.

**IET 120. Technology Systems. (3-0-3); I, II, III. Pre-college curriculum requirements should be met.** An introduction to major areas of technology including communication, construction, manufacturing, and transportation systems. *This course satisfies the area studies-practical living for general education.*

**IET 160. Introduction to Power and Fluid Mechanics. (2-2-3); I, II.** Beginning instruction in energy sources and fluid systems. Steam engines, steam turbines, diesel engines, spark-ignition engines, and exhaust emissions are studied.

**IET 185. Methods of Instruction in Voc. Education. (3-0-3); II, III. Prerequisite:** Restricted to individuals holding a One-Year Certificate for Teaching Vocational Industrial Education Preparation level. Emphasis on how to prepare and implement course organization, lesson planning, teaching techniques, and evaluation as relates to industrial-technical subject matter.

**IET 211. Advanced Wood Technics. (2-2-3); on demand. Prerequisite:** IET 111 or consent of instructor. This is a

continuation of basic wood technic. It consists of advanced techniques and practices reflecting the wood industries through the study and use of theory, experimentation, and evaluation.

**IET 222. General Crafts. (1-2-2); on demand.** A survey of several craft media, involving a study of the common tools, skills, processes, and procedures in clay, glass, plastics, metal, stone, leather, and wood. Industrial applications of craft principles and processes will also be investigated.

**IET 260. Hydraulics and Pneumatics. (2-2-3); I.** Introductory course in the design and analysis of power transfer devices utilizing hydraulics and pneumatics, with emphasis on robotics applications.

**IET 261. Power Mechanics. (2-2-3); on demand.** Control mechanisms are studied along with rocket engines, various forms of jet engines, and advanced power systems.

**IET 300. Technology and Society. (3-0-3); I, II, III.**  
*Prerequisites: ENG 100, MATH 123 or higher.* A study of the issues that arise as technology becomes a creative human enterprise. Students will be engaged in reading, dialog, and group activities in order to increase their abilities to identify and assess the implications and ramifications of productively living in a technological society. *This course satisfies area studies-social and behavioral sciences for general education.*

**IET 311. Design and Construction. (1-4-3); on demand.**  
*Prerequisite: IET 211.* Students design, plan, construct, and finish an appropriate product requiring knowledge of advanced principles and techniques in wood technology.

**IET 317. Time and Motion Study. (2-0-2); I, II.** Process charts, analysis of methods, materials, tools, and equipment of industry for profit improvement.

**IET 319. Quality Control. (3-0-3); I, II.** Analytical and statistical inference techniques for process and manufacturing product control. Development of process capabilities and derivation of process limit graphs.

**IET 320. Supervisory Practices. (3-0-3); I, II.** Development of various direct and indirect supervisory techniques commonly used in management positions with special emphasis placed on those unique to manufacturing industries.

**IET 321. Wood Laminating and Turning. (2-2-3); on demand.** Theory and practice of laminating and wood turning, with emphasis given to industrial and school shop practices. Introduction to tools, equipment, and their safe operations.

**IET 327. Applied Industrial Management. (3-0-3); II.** A study of basic industrial management practices and procedures. Designed to serve the technician, first-line supervisor, or lay management individual to provide an awareness rather than to prepare a practitioner of management.

**IET 330. Industrial Design. (2-0-2); I, II.** Product design with emphasis upon modular systems, consumer relations, and manufacturing capabilities. Individual and group activities using interdisciplinary and systems design techniques.

**IET 361. Automotive Mechanics. (2-2-3); on demand.** Engine repair and maintenance procedures including computerized management systems. Braking systems, drive systems, and steering systems are also covered.

**IET 362. Fluid Power. (2-2-3); on demand. Prerequisite: IET 262.** To gain an in-depth knowledge of fluid systems as they are used in modern industry.

**IET 364. Career and Vocational Guidance. (3-0-3); on demand.** Study of the concept of career education and to explore the new emerging role of the guidance counselor in regard to problems that exist in our present educational system, innovative concept of career education, the counselor and

classroom teacher's responsibility within the framework of career education, evaluation of career education, and exploring future implications for developing positive attitudes and values for work for all students, including the disadvantaged and handicapped.

**IET 365. Instrumentation. (2-2-3); on demand.** Techniques of properly instrumenting test calls with such devices as pilot tubes, manometers, and electronic devices.

**IET 371. Seminar for Industrial Education. (1-0-1); I, II.** Participants will develop a further understanding of the underlying concepts of industrial career options by participation in one or more programs followed by informal discussion.

**IET 381. Related Science, Mathematics, and Technology in Occupations. Offered only through written examination. (0-0-6); on demand.** Courses will be offered only through a scheduled examination. (Written, performance, and oral examinations in the field of specialization that the candidate is preparing to teach.)

**IET 382. Manipulative Skills in Occupations. Offered only through technical competence examinations. (0-0-6); on demand.** Courses will be offered only through a scheduled examination. (Written, performance, and oral examinations in the field of specialization that the candidate is preparing to teach.)

**IET 383. Knowledge of related subjects in occupations. Offered only through oral examinations. (0-0-6); on demand.** Courses will be offered only through a scheduled examination. (Written, performance and oral examinations in the field of specialization that the candidate is preparing to teach.)

**IET 385. Staff Exchange. (3 hrs.); I, II, III.** Designed to give an opportunity for an individual to upgrade in his/her specific technical skill in an ever changing technical world. Through this unique chance to work in industry learning the new techniques, developing new skills and expanding one's knowledge will enable the participant to take back to his/her classroom the latest innovations in technology as industry has adopted for their use.

**IET 388. Methods of Curriculum Development. (3-0-3); II.**  
*Prerequisites: VOC 207 or consent of instructor.* A comprehensive study of current curriculum content in Vocational Education. Emphasis on modifying and developing new curricula. See AGR 388 and HS 388.

**IET 392. Methods of Instructional Technology. (2-2-3); I, III.**  
*Prerequisite: Admission to Teacher Education Program.* Emphasis is placed on developing competency based objectives for technical subject matter and on developing a variety of instructional media appropriate for technical curricula. (See AGR 392 and HS 392.)

**IET 393. Methods in Vocational Industrial Education. (3-0-3); on demand. Prerequisite: Admission to Teacher Education Program.** Basic principles of teaching and learning with practical applications of procedures used in industrial education programs.

**IET 394. Student Teaching in Vocational Industrial Education. (4 to 8 hrs.); on demand. Prerequisite: IET 393, admission to teacher education program.** Each student is assigned to an approved student teaching center offering comprehensive teaching experiences at the preparation-industrial education level. Directed to observations and supervised teaching in approved area vocational school or an extension center in the trade and area in which the certificate is desired.

*Candidates for the associate degree will complete a minimum of 45 hours of supervised student teaching, 60 hours of directed*

observation, and 20 hours of participation. This experience carries four hours of credit.

Candidates for the bachelor's degree complete a minimum of 90 hours of supervised student teaching, 120 hours of directed observation, and 40 hours of participation. This experience carries eight hours of credit.

**IET 395. Special Problems in Vocational Industrial Education.** (1 to 3 hrs.); I, II, III. *Prerequisite: Permission of the instructor prior to registration.* Individual problems dealing with specific areas in the teaching field of the student. Opportunity of pursuing a technical problem in a laboratory orientation is provided. Conferences with the instructor are scheduled as needed.

**IET 398. Supervised Work Experience.** (1 to 9 hrs.); I, II, III. *Prerequisite: 20 hours in major department and consent of the department head prior to registration.* An enrichment program which will give experience in an occupational area which is not possible to provide in a classroom setting. Student will work under supervision in an approved organization for a period of time specified by his or her major department. Credit will be commensurate with the amount of time worked. The student will be supervised by faculty from the major department. A representative of the cooperating organization will be directly responsible for the work experience of the student and will make a written evaluation of the student periodically.

**IET 399. Selected Topics.** (1-4 hrs.); on demand. Technology and industrial teacher education topics reflective of emerging industrial techniques or trends in technical-vocational education. Innovative, experimental, and hands-on techniques will frequently be used.

**IET 400. Seminar in Industrial Education--Orientation and Exploration Levels.** (4-0-4); on demand. *Prerequisite: Four years of successful teaching experience in industrial education.* Seminar designed for individuals who have four years of successful teaching experience and desire dual certification to include industrial education at the orientation and exploration levels.

**IET 401. Seminar in Industrial Education--Preparation Level.** (4-0-4); on demand. *Prerequisite: Four years of successful teaching experience in industrial education.* Seminar designed for individuals who have four years of successful teaching experience at the industrial education orientation and exploration levels and desire dual certification to include industrial education at the preparation level.

**IET 411. Wood Technics.** (2-2-3); on demand. *Prerequisite: IET 111, 211.* A study of the problems and process of the major wood industries in the United States. Various industrial processes, application, and testing are utilized in mass production and individual projects.

**IET 419. Total Quality Improvement.** (3-0-3); I. *Prerequisites: IET 319, IET 320, or consent of instructor.* A study of total quality concepts and their impact on the quality and competitiveness of products.

**IET 422. Industrial Safety Standards and Enforcement.** (3-0-3); II. A study of industrial safety codes, standards, regulations, and enforcement procedures. Explanations of worker safety as related to attitude and production. Review of current laws regulating safety and those agencies related to enforcement and training.

**IET 460. Internal Combustion Engines II.** (2-2-3); on demand. *Prerequisite: IET 360.* Detailed study of exhaust emissions and the gas turbine engine.

**IET 463. Heating, Ventilating, and Air Conditioning.** (2-2-3); on demand. A study of the ventilating and heating techniques in modern industrial application. Also includes industrial air conditioning and refrigeration.

**IET 470. Teaching Methods in Industrial Education--Orientation and Exploration Levels.** (3-0-3); II. *Co-requisite, enrolled in IET 478--Supervised Teaching Practicum. Must be admitted to Teacher Education Program.* A study of the objectives of industrial arts and related behavioral changes; industrial arts curricular patterns and trends; selection and organization of subject matter, problem selection, and the project method of teaching; instructional materials and teaching aides; testing and evaluation; and professional growth.

**IET 476. Special Problems.** (1 to 3 hrs.); I, II, III. *Prerequisite: Upper division standing; approval prior to registration.* Designed for the purpose of permitting a student to do advanced work as a continuation of an earlier experience or to work in an area of special interest.

**IET 478. Student Teaching Practicum.** (12-0-12 hrs.) *Prerequisite: Admission to Teacher Education Program.* Each student is assigned to an approved student teaching center offering comprehensive teaching experience in the Industrial Technology Education. See AGR 478 and HS 478.

**IET 496. Organization and Management of the Laboratory.** (2-0-2); *Prerequisite: Admission to the Teacher Education Program.* Principles of shop and class organization and management, including program planning and development of shops and laboratories; selecting and purchasing equipment and supplies; and organizing and administering the instructional program.

**IET 497. Seminar in Vocational Industrial Education.** (1-0-1); I. Current problems, issues, and trends in vocational education.

**IET 499C. Senior Project.** (1-4-3); I, II. *Prerequisites: Senior standing and completion of 18 hours in option.* Problems using the scientific method of inquiry in conjunction with faculty members from the major area of study will be conducted. The proposed problem is inclusive of the statement, background, and parameters of the problem, as well as methods and procedures for the solution. *This course satisfies the integrative component for general education.*

**IET 520. Industrial Arts for the Elementary Teacher.** (3-0-3); on demand. *Prerequisite: Formal admission to the Teacher Education Program.* This course is designed as a means to develop professional and technical competencies of pre-service and in-service elementary school teachers so they may enrich and strengthen programs of instruction by using industrial arts as both method and content.

**IET 560. Foundations of Industrial Education.** (3-0-3); on demand. Study of the philosophical positions underlying the development of industrial education; leaders, their influence and contributions; contemporary educational theories affecting the current programs of industrial education.

**IET 571. Seminar for Industrial Education** (1-0-1); I, II. Participants will develop a further understanding of the underlying concepts of industrial career options by participation in one or more programs followed by informal discussion.

**IET 588. Machine Shop III.** (1-4-3); on demand. *Prerequisite: MFT 286.* Advanced tool and machining theory, with emphasis on production machining and progressive tooling design for numerical control applications.

**IET 590. Supervised Internship.** (1 to 6 hrs.); I. *Prerequisite: Department chair's approval prior to registration.*

Student works under supervision at an approved educational or industrial work site. Credit commensurate with time, quality and variety of internship assignment. Research paper including daily log of activities required. Conditions to be agreed upon by on-site supervision, students, and graduate advisor prior to registration. Faculty will provide on-site visits.

## Italian

**ITL 190. Conversational Italian. (3-0-3).** An introduction to Italian language and culture. Emphasis on correct pronunciation, rapid speech, and fluency.

**ITL 200. Conversational Italian II. (3-0-3).** Emphasis on individual acquisition of correct, idiomatic Italian for communication.

## Latin

**LAT 101. Beginning Latin I. (3-0-3).** Drill in the basic elements of Latin grammar, word study, and reading of simple Latin selections.

**LAT 102. Beginning Latin II. (3-0-3).** A continuation of 101.

**LAT 201. Intermediate Latin I. (3-0-3).** Selections from Catullus, Cicero, Horace, Pliny, Martial, Livy, and Ovid.

**LAT 202. Intermediate Latin II. (3-0-3).** Writings of Cicero; his life and influence.

**LAT 301. Advanced Latin I. (3-0-3).** Poets of the Augustan Age, together with the history of the period.

**LAT 302. Advanced Latin II. (3-0-3).** Further study of the poetry of the Augustan Age. Selections from Vergil's Aeneid.

## Library Science and Instructional Media

**LSIM 101. Use of Books, Materials, and Libraries. (2-0-1) nine weeks only; I, II.** General introduction to the use of information resources including online catalogs, specialized reference books, CD-ROMs, external electronic databases, and Internet. Emphasis upon organization and resources of the Camden-Carroll Library. Course is designed for college freshmen.

**LSIM 521. Literature and Materials for Young People. (3-0-3); I, III.** Investigation of reading interests and needs of young people grades 7 through 12, with emphasis on criteria for selection and evaluation of materials, technical and literary qualities, and methods for utilization of such materials.

**LSIM 522. Literature and Materials for Adults. (3-0-3); II.** Investigation of adult reading interests and library's role in adult education with consideration of services offered to culturally disadvantaged and physically handicapped. Students given opportunity to read and discuss the "popular book" and practice in writing book reviews.

## Management

**MNGT 139. Cooperative Education I. (1 to 8 hrs.); on demand.** Work experience in a field relevant to the student's career objectives and academic preparation. Experience is usually analogous to a freshman level course. Not available for option credit.

**MNGT 160. Business and Society. (3-0-3); I, II.** A basic introductory course designed to expose students to a variety of issues regarding management, marketing, finance, accounting, economics, technology, and business law. Through this course, students will develop an understanding and an appreciation of the interaction between the world of business and society. *This*

*course satisfies area studies-practical living for general education.*

**MNGT 199. Selected Workshop Topics. (1 to 4 hrs.); on demand.** Workshops on various management subjects will be presented periodically to supplement the basic course offerings in management. Credit toward degree programs must be approved by the student's advisor.

**MNGT 261. The Legal Environment of Business Organizations. (3-0-3); I, II.** The forms of business organizations, including sole proprietorships, partnerships, and profit and nonprofit corporations. The regulatory environment and legal constraints on organizations; the relationship between business and government in policy formation; and basic legal concepts.

**MNGT 300. Quantitative Methods in Business and Economics. (3-0-3); on demand. Prerequisites: MATH 152, MATH 354, ECON 202, or equivalent.** Application of mathematical and statistical techniques to business, the market systems, and the study of economic and finance. (Crosslisted as ECON 300.)

**MNGT 301. Principles of Management. (3-0-3); I, II.** History of management, the management process, the principles of management and their application in the operations of business. The fundamental concepts of management applied to such areas of business activity as organization, personnel, production, and research.

**MNGT 306. Production and Quality Management. (3-0-3); I, II, III. Prerequisite: MNGT 301, MATH 152 and MATH 354.** How Total Quality Management affects operations in manufacturing and service firms. Qualitative and quantitative means for evaluating alternatives for improving customer satisfaction by improving quality, speed and flexibility or by reducing waste are described and illustrated. Statistical quality control, lean production, just-in-time inventory and production procedures, facilities location, and equipment layout are concepts usually addressed using spreadsheet software, a real world approach that facilitates student understanding and problem-solving.

**MNGT 310. Small Business Organization. (3-0-3); I, II.** Aspects of management that are unique to small firms; economic and social environment in which small firms function; student practice in making decisions on problems facing managers of small businesses.

**MNGT 311. Human Resource Management. (3-0-3); I, II. Prerequisite: MNGT 301.** Personnel management principles, job requirements; selection techniques; testing programs; facilitation of employee adjustment; wage and salary administration; legal aspects of labor relations; financial incentives.

**MNGT 339. Cooperative Education III. (1 to 8 hrs.); on demand.** Work experience with an in-depth exposure representative of the student's academic level and experience analogous to a junior level status. Not available for option credit.

**MNGT 357. Business Information and Industry. (3-0-3); . Prerequisite: MNGT 301.** Purpose is to assist management students in understanding the range of business information, alternative sources for information in industry and component sectors of industry.

**MNGT 362. The Legal Environment and Business Practices. (3-0-3); on demand. Prerequisite: MNGT 261.** Business practices, emphasizing legal problem avoidance. Areas of the law which impact business success or failure; the Uniform Commercial Code, state and federal regulations, and laws.

**MNGT 399. Selected Workshop Topics. (1 to 4 hrs.); on demand.** Workshops on various management subjects will be

presented periodically to supplement the basic course offerings in management. Credit toward degree programs must be approved by the student's advisor.

**MNGT 411. Labor Relations. (3-0-3); I, II. Prerequisite:**

**MNGT 311.** Historical development of the U.S. labor movement, and a comparative analysis with other western culture labor movements. Emphasis on developing insights into labor's point of view. An introduction to labor-management negotiations and grievance procedures.

**MNGT 417. Management and Marketing of Public and Nonprofit Organizations. (3-0-3); on demand. Prerequisites:**

**MKT 304 and MNGT 301.** The application of principles of management and marketing to the specific needs of public and nonprofit organizations. Formulation, implementation, and evaluation strategies for management and marketing of these organizations is explored.

**MNGT 425. Training and Development in Industry. (3-0-3); on demand. Prerequisites: MNGT 301 or BIS 363, and BIS**

**321 or BIS 421.** Study of the relevant theories, issues, trends, and methods in training and developing adult learners in work organizations; includes program design, needs and task analysis, delivery methods, working with consultants, and program evaluations.

**MNGT 436. Decision-Making and Project Management. (3-0-3); on demand. Prerequisites: MNGT 306, or consent of**

**instructor.** Presents a decision-making framework that allows students to explore and weigh three critical elements of formulating solutions for unstructured problems; root cause analysis, option analysis, and risk analysis. Also presents Project Management concepts to deal with the implementation of decision and plans.

**MNGT 439. Cooperative Education IV. (1 to 8 hrs.); on demand.** Work experience with an in-depth exposure representative of the student's academic level and experience analogous to a senior level course. Not available for option credit.

**MNGT 463. Law and Ethics in Business. (3-0-3)**

**Prerequisites: MNGT 261 and MNGT 362; or consent of instructor.** The social responsibility of business and individuals in commerce. Value systems, externally or self-imposed, their development and operation.

**MNGT 465. Organizational Behavior. (3-0-3); on demand.**

**Prerequisite: MNGT 301.** A study of human and interpersonal behavior to understanding, evaluating, and appraising business and social situations. Emphasis on skill and the ability to work with people, groups, and institutions.

**MNGT 475. Business Leadership and Teamwork. (3-0-30;**

**I, II. Prerequisite: MNGT 465.** An in-depth study of effective leadership within modern organizations focused primarily upon managerial leadership. The importance and use of teams and groups within modern organizations will also be examined. Theories, research, strategic importance, and skills in the areas of leadership and teamwork will be studied.

**MNGT 476. Special Problems in Management. (1 to 3 hrs.); on demand. Prerequisites: Senior standing and prior**

**consent of department head.** Self-directed independent study on a specific problem, based on written proposal and justification submitted by student prior to registration. Each request will be considered on its own merit in relation to the special needs, interest, and abilities of the student.

**MNGT 486. Management Internship Program. (3 to 12 hrs.); on demand. Prerequisites: Junior or senior standing and 12 hours in major area, with 2.5 GPA in major area and**

**permission of instructor.** The internship program involves placement of students in positions in business comparable to those filled by professional career employees. Participants work under the supervision of high level officials possessing major departmental responsibilities. Available as option credit.

**MNGT 499C. Business Policies and Problems. (3-0-3); I, II, III. Prerequisites: ACCT 292, ECON 202, FIN 360, MNGT**

**301, MKT 304, and senior standing.** Specific problems involved in the forming of consistent business policies and in maintaining an efficient organization. This is a comprehensive, general education, capstone course required of all students seeking a BBA degree (except for CIS majors.) *This course satisfies the integrative component for general education.*

## Manufacturing Technology

**MFT 106. Thermoplastic Processing. (2-2-3); I.**

Introduction to the materials and techniques employed in the processing of thermoplastics.

**MFT 107. Thermosetting Plastics Processing. (2-2-3); on demand.** Study of the various ways thermosetting plastic compounds are processed.

**MFT 186. Manufacturing and Fabrication. (2-2-3); I, II.**

Ferrous and nonferrous metals, basic metallurgy and heat treating, sheet metal, basic welding, casting, forging, manufacturing processes and concepts.

**MFT 286. Machine Tool Processes. (2-2-3); II. Prerequisite:**

**MFT 186 or consent of the instructor.** Various metal forming and machining experiences; emphasis on exact tolerances and precise dimensions. Lathe, mill, shaper, and grinder experiences.

**MFT 306. Mold Design and Construction. (2-2-3); II.**

**Prerequisite: Consent of the instructor. (Recommended courses MFT 106, 107, 111, and 286).** Design of products in relationship to the physical characteristics of plastics, molding techniques, and mold construction methods.

**MFT 386. NC-CNC Manufacturing Technology. (2-2-3); I.**

**Prerequisite: MFT 286 or consent of instructor.** Advanced tooling theory and numerical controlled and computer numerical controlled machine processes. Application and selection of carbide tooling emphasized in production applications.

**MFT 486. Patternmaking and Foundry. (1-2-2); on**

**demand.** Casting of hot metals with activities in pattern development, sand testing, and mold design.

**MFT 488. Flexible Manufacturing Engineering Technology.**

**(2-2-3); II. Prerequisite: MFT 386.** Advanced tools and machining theory; use of carbides, with emphasis on production machining. Turret and progressive tooling design.

**MFT 588. Machine Shop. (1-4-3); on demand. Prerequisite:**

**MFT 386 or consent of instructor.** Advanced tool and machining theory, with emphasis on production machining, and progressive tooling design for computerized numerical control applications.

## Marketing

**MKT 304. Marketing. (3-0-3); I, II.** The basic principles of marketing and the impact of globalization, diversity, ethics, and small business marketing. An understanding of how the elements of the marketing mix (product, place, and promotion) are used to create superior value for customers and achieve organizational objectives.

**MKT 305. Purchasing. (3-0-3); on demand. Prerequisite:**

**MKT 304 or consent of instructor.** Purchasing functions and

procedures, organization and operation of the purchasing department, inventory, quantity and quality controls, sources of supply, legal aspects of purchasing, evaluating purchase performance.

**MKT 339. Cooperative Education III. (1 to 8 hrs); on demand.** Work experience with an in-depth exposure representative of the student's academic level and experience analogous to a junior level status.

**MKT 350. Personal Selling. (3-0-3); I, II. Prerequisite:** *MKT 304 or consent of instructor.* The major promotional method used in American business, Personal Selling, involves person-to-person communication between a buyer and seller. The stages of the selling process, such as prospecting, the presentation, and the close will be explored.

**MKT 351. Sales Management. (3-0-3); on demand. Prerequisites:** *MNGT 301, MKT 304 or consent of instructor.* Sales management is the administration of a firm's personal selling function. The sales manager has many tasks which will be examined: Sales planning and budgeting, estimating market potential and forecasting sales; organizing the sales force; recruiting, selecting, and training, supervising; and evaluating the sales force.

**MKT 354. Consumer Behavior. (3-0-3); I, II. Prerequisite:** *MKT 304 or consent of instructor. PSY 154 and SOC 101 recommended.* Consumer Behavior examines the processes consumers use to pick, secure, use and dispose of products and services. In addition, internal forces such as personality, and external forces such as culture, which impact the decision making process, are reviewed.

**MKT 365. Services Marketing. (3-0-3); on demand. Prerequisite:** *MKT 304 or consent of instructor.* Examines the Marketing of services from a managerial perspective. includes topics such as the unique nature of services; managing the service encounter; pricing, promoting, and distributing services; and service quality.

**MKT 399. Selected Workshop Topics. (1 to 4 hrs.); on demand.** Workshops on various marketing subjects will be presented periodically to supplement the basic course offerings in marketing. Credit toward degree programs must be approved by the student's advisor.

**MKT 439. Cooperative Education IV. (1 to 8 hrs.); on demand.** Work experience with an in-depth exposure representative of the student's academic level and experience analogous to a senior level status. Not available for option credit.

**MKT 451. Retail Management. (3-0-3); on demand. Prerequisite:** *MKT 304.* The role of retailing institutions to meet the fast-paced changes in society which confront final consumers in their purchases for personal, family, or household nonbusiness uses. The retailing process is critically analyzed along with the environment within which it operates, and the institutions and functions that are performed.

**MKT 452. Marketing Research and Analysis. (3-0-3); I, II. Prerequisites:** *MKT 304 and MATH 354.* Marketing Research is used by a wide variety of organizations to collect information that will assist them in making better decisions. The process of designing, gathering, analyzing, and reporting data relevant to a specific decision will be explored.

**MKT 453. Marketing Planning and Strategies. (3-0-3); I, II. Prerequisites:** *MNGT 301, MKT 304, and completion of or concurrent enrollment in all required marketing option courses or consent of instructor.* An integrated course in marketing, systematically oriented with emphasis on the marketing mix, the

formulation of competitive strategies, and special attention to market analysis, marketing information, and sales forecasting.

**MKT 454. Promotional Strategies. (3-0-3); I, II. Prerequisite:** *MKT 304.* Required for Marketing Option in Business Administration. Promotional Strategies is dedicated to demonstrating how organizations may communicate, compete and convince their target markets through the interrelationship of advertising, sales promotion, publicity and public relations.

**MKT 455. Advertising. (3-0-3); on demand. Prerequisite:** *MKT 304.* A discussion of the milestones in the evolution of advertising and a description of advertising's role in the marketing communication process. The course will investigate both the client and professional advertiser perspective. Theory and application are stressed.

**MKT 465. Distribution Management. (3-0-3); on demand. Prerequisite:** *MKT 304 or consent of instructor.* Distribution management examines how the marketer gets their product to the end consumer. The activities involved in the physical movement and storage of inputs into the production process, in-process inventory and finished products from the point of origin to the point of consumption will be examined.

**MKT 469. International Marketing. (3-0-3); II. Prerequisite:** *MKT 304.* The role of the United States in the competitive arena of world trade. Preparing students to operate and compete globally; how to find new markets to replace saturated markets, how to determine which products international customers want, how to customize products for these demands, how to best reach these customers, what pricing strategies are most appropriate, what distribution channels are adequate, and how to overcome barriers that hinder implementation of marketing programs.

**MKT 476. Special Problems in Marketing. (1 to 3 hrs.); I, II, III. Prerequisites:** *Senior standing and prior consent of department head.* Self-directed independent study on a specific problem, based on written proposal and justification submitted by student prior to registration. Each request will be considered on its own merit in relation to the special needs, interest, and abilities of the student.

**MKT 499. Selected Workshop Topics. (1 to 4 hrs.); on demand.** Workshops on various marketing subjects will be presented periodically to supplement the basic course offerings in marketing. Credit toward degree programs must be approved by the student's advisor.

## Mathematics

**MATH 091. Beginning Algebra. (3-0-3); I, II, III.** A first course in algebra for students with no previous experience with algebra or who have been unsuccessful in attempting a course in Algebra I at the secondary school level. This is a course in the developmental studies curriculum and does not count as credit toward graduation. A student should not expect other institutions to accept this course for transfer credit.

**Math 093. Intermediate Algebra. (3-0-3); I, II, III. Prerequisite:** *"C" or better in MATH 091 or minimum ACT Math Subscore of 18.* A second course in algebra, giving the student an opportunity to gain additional competency in algebra necessary for certain courses at the University. This is a course in the developmental studies curriculum and does not count as credit toward graduation. A student should not expect other institutions to accept this course for transfer credit.

**MATH 110. Problem Solving Techniques.** (1-0-1); on demand. A basic course emphasizing problem solving using graphing calculators.

**MATH 123. Introduction to Statistics.** (3-0-3); I, II, III. *Prerequisite:* "C" or better in MATH 091 or minimum ACT Math Subscore of 18. Basic concepts of probability, sampling, and the algebra of events. Properties of selected discrete and continuous distributions. *This course satisfies the required core-math reasoning for general education.*

**MATH 131. General Mathematics. Problem Solving Strategies.** (3-0-3); I, II, III. *Prerequisite:* "C" or better in MATH 091 or minimum ACT Math Subscore of 18. A course providing the student with experiences designed to improve the ability to make decisions and solve a variety of problems. Emphasis is on learning to investigate, organize, observe, question, discuss, reason, generalize and validate. Mathematical content includes topics which are related to consumer mathematics, geometry, graphs, probability and statistics. *This course satisfies the required core-math reasoning for general education.*

**MATH 135. Mathematics for Technical Students.** (3-0-3); I, II, III. *Prerequisite:* "C" or better in MATH 091 or minimum ACT Math Subscore of 18. Practical mathematics as applied to technical programs. Fractions, ratio and proportion, percentage, elementary algebra, formulae, volumes, and elementary trigonometry. *This course satisfies the required core-math reasoning for general education.*

**MATH 141. Plane Trigonometry.** (3-0-3); I, II, III. *Prerequisite:* "C" or better in MATH 093 or minimum ACT Math Subscore of 20. Trigonometric functions, trigonometric identities, inverse functions, and applications. *This course satisfies the required core-math reasoning for general education.*

**MATH 152. College Algebra.** (3-0-3); I, II, III. *Prerequisite:* "C" or better in MATH 093 or minimum ACT Math Subscore of 20. Field and order axioms; equations, inequalities; relations and functions; exponentials; roots; logarithms; sequences. *This course satisfies the required core-math reasoning for general education.*

**MATH 160. Mathematics for Business and Economics.** (4-0-4); on demand. *Prerequisite:* "C" or better in MATH 093 or minimum ACT Math Subscore of 20. An introduction to finite mathematics and calculus. Systems of linear equations and inequalities, matrix algebra, linear programming, differentiation and integration; applications to business and economics.

**MATH 170. Introduction to Algorithms.** (3-0-3); I, II. *Prerequisites:* High School Algebra II or equivalent. A first course in the mathematical treatment of algorithms using the generic language of pseudocode.

**MATH 174. Pre-Calculus Mathematics.** (3-0-3); I, II. *Prerequisite:* "C" or better in MATH 141 or minimum ACT Math Subscore of 22. Exponential, logarithmic, and trigonometric functions; complex numbers, theory of equations. *This course satisfies the required core-math reasoning for general education.*

**MATH 175. Analytic Geometry and Calculus I.** (4-0-4); I, II. *Prerequisites:* "C" or better in MATH 174, minimum ACT Math Subscore of 25, or MATH 152 and MATH 141. Functions and graphs; limits; continuity; differentiation; applications of the derivative; integration; applications of the definite integral. *This course satisfies the required core-math reasoning for general education.*

**MATH 231. Mathematics for the Elementary Teacher I.** (2-2-3); I, II. (Designed for teachers P-9). *Prerequisite:* "C" or better in MATH 091 or minimum ACT Math Subscore of 18. Number systems, primes, and divisibility; fractions; decimals; real numbers; algebraic sentences. Successful completion of a basic skills exam in mathematics is required for credit in this course.

**MATH 232. Mathematics for the Elementary Teacher II.** (2-2-3); I, II, III. (Designed for teachers P-9). *Prerequisite:* MATH 231. Introduction to computers; probability and statistics; geometric shapes; geometry of measurement; congruence and similarity. *This course satisfies the area studies-natural and mathematical sciences for general education.*

**MATH 252. Boolean Algebra.** (3-0-3); on demand. *Prerequisite:* MATH 152 or consent of the instructor. Study of the basic laws and operations of Boolean algebra; simplification techniques, circuit design.

**MATH 260. FORTRAN Programming.** (3-0-3); I. *Prerequisites:* MATH 170 or consent of instructor. Introduction to FORTRAN programming language. Application of mathematical techniques to problems in programming. Business, engineering, management, and modeling examples are employed to provide comprehensive knowledge of the language.

**MATH 275. Analytic Geometry and Calculus II.** (4-0-4); I, II. *Prerequisites:* MATH 175 and MATH 170. Differentiation and integration of exponential, logarithmic, and trigonometric functions; techniques of integration; numerical methods; improper integrals, infinite series; polar coordinates.

**MATH 276. Analytic Geometry and Calculus III.** (4-0-4); I, II. *Prerequisite:* MATH 275. Polar coordinates; parametric equations; vectors; differential calculus of functions of several variables; multiple integration; vector calculus.

**MATH 300. Introduction to Mathematical Proof.** (3-0-3); I. Propositional calculus; sets; relations; functions; Boolean algebras; cardinality, mathematical proofs.

**MATH 301. Elementary Linear Algebra.** (3-0-3); II. *Prerequisite:* MATH 175. Vector spaces; determinants; matrices; linear transformations; eigenvectors.

**MATH 303. Data Structures.** (3-0-3); on demand. *Prerequisites:* CIS 205. Key concepts of data definitions, such as lists, stacks, and queues. Recursion, graphs and trees, sorting and searching. Structured program design, elementary data structures and the study of algorithms as a tool of program design. (See CIS 303.)

**MATH 308. Discrete Mathematics.** (3-0-3); II. *Prerequisites:* MATH 170, MATH 300. A course in algorithms, counting principles, recurrence relations, generating functions, graphs, trees, and networks.

**MATH 310. Introduction to Real Analysis.** (3-0-3); II. *Prerequisite:* MATH 275 and MATH 300. Algebraic and topological properties of the reals; limits and continuity; differentiation; infinite series; Riemann integration.

**MATH 312. Numerical Methods.** (3-0-3); I. *Prerequisite:* MATH 275. A basic course in numerical analysis, including error analysis, series approximation, numerical integration techniques, practical applications of matrices, solution of simultaneous non-linear equations, and curve-fitting.

**MATH 330. Geometry for Teachers (P-9).** (2-2-3); I (in even numbered years). *Prerequisite:* MATH 232. Experimental and axiomatic geometry; points, lines, and planes; separations, curves and surfaces; congruence; measures; parallelism and similarity; coordinate geometry; transformations in a plane.

**MATH 332. Introduction to Finite Mathematics. (3-0-3); II. (Designed for teachers P-9).** Linear programming, combinatorial analysis, probability, matrices, game theory, and graph theory.

**MATH 350. Introduction to Higher Algebra. (3-0-3); II. Prerequisite: MATH 300.** Groups, rings, integral domains, related topics.

**\*MATH 353. Statistics. (3-0-3); I, II, III. Prerequisite: "C" or better in MATH 093 or minimum ACT Math Subscore of 20.** Introduction to statistics with applications. *This course satisfies the area studies-natural and mathematical sciences for general education.*

**\*MATH 354. Business Statistics. (3-0-3); I, II, III. Prerequisite: "C" or better in MATH 093 or minimum ACT Math Subscore of 20.** Introduction to statistics with applications to business. *This course satisfies the area studies-natural and mathematical sciences for general education.*

**MATH 355. Principles of Optimization. (3-0-3); I. Prerequisite: MATH 152 or equivalent.** Linear, integer and dynamic programming, game theory, and scheduling.

**MATH 363. Differential Equations. (3-0-3); II. Prerequisite: MATH 275.** Special types of first order differential equations; linear differential equations; operator methods; Laplace transforms; series methods; applications.

**MATH 365. Introduction to Mathematical Statistics. (3-0-3); I. Prerequisite: MATH 275.** A calculus-based introduction to probability and statistics.

**MATH 370. College Geometry I. (3-0-3); II, III. Prerequisite: MATH 300.** Sets of axioms, finite geometries, convexity, Euclidean geometry of the polygon and circle, geometric constructions.

**MATH 371. College Geometry II. (3-0-3); I. Prerequisite: MATH 370.** Geometric transformations, non-euclidean geometry, projective geometry, geometric topology, geometry of inversion.

**MATH 373. Principles and Techniques of Teaching Mathematics. (2-2-3); I. Prerequisite: MATH 275 and admission to Teacher Education Program.** Designed specifically for the student who desires to become a teacher of secondary school mathematics. The course provides the student with opportunities to develop the skills required to plan, implement, and evaluate mathematics instruction. Field and clinical experiences are an integral part of the course.

**MATH 374. Clinical and Field Experiences in the Teaching of Mathematics. (1-4-3); II. Prerequisite: MATH 373.** A course designed to provide students with clinical and field opportunities to further develop the skills required for planning, implementing, and evaluating instruction in secondary school mathematics.

**MATH 391. Dynamics. (3-0-3); I. Prerequisite: PHY 221 or 231.** A study of motion of bodies. Kinematics and dynamics of particles and rigid bodies; work and energy; impulse and momentum. (See PHYS 391.)

**MATH 419. Probability. (3-0-3); I. Prerequisites: MATH 275 and MATH 365.** A first course in mathematical probability and its applications to statistical analysis.

**MATH 420. Mathematical Statistics. (3-0-3); II. Prerequisite: MATH 419.** Hypothesis testing and estimation; bivariate and multivariate distributions; order statistics; test of fit; nonparametric comparison of locations; distribution theory.

**MATH 455. Linear Statistical Models. (3-0-3); II. Prerequisites: MATH 301 and MATH 353, MATH 354, or**

**MATH 365.** Linear and quadratic regression models; least squares estimates; statistical inference; multicollinearity; residual analysis; selection of regression models; lack of fit.

**MATH 471. Seminar. (1-0-1); I, II. Prerequisite: Junior or senior standing.** Designed to give the student an introduction to research and literature in mathematics.

**MATH 481. Mathematics for Engineers and Scientists. (3-0-3); I. Prerequisites: MATH 276 and MATH 363.** Fourier series, ordinary and partial differential equations, special functions, and integral transforms. (See PHYS 481.)

**MATH 499C. Senior Capstone. (1-0-1); I, II. Prerequisite: Junior or senior standing.** Designed to give the student an introduction to research and literature in mathematics. *This course satisfies integrative component for general education.*

**MATH 504. Topology. (3-0-3); on demand. Prerequisites: MATH 300 and 350 or consent of instructor.** Elementary set theory; topological spaces; metric spaces; compactness and connectedness; mapping of topological spaces; related topics.

**MATH 510. Real Variables. (3-0-3); on demand. Prerequisite: MATH 310.** Topological properties of Euclidean space; theory of differentiation and integration; sequences and series of functions, metric spaces.

**MATH 511. Functional Analysis. (3-0-3); on demand. Prerequisites: MATH 301 and 510 or consent of instructor.** Linear spaces; normed and Banach spaces; Hilbert spaces; applications to sequence spaces and Fourier series.

**MATH 553. Concepts in the Design of Experiments. (3-0-3); I. Prerequisite: MATH 353, 354 or 365.** Single factor experiments; factorial experiments; qualitative and quantitative factors; fixed, random and mixed models; nested experiments.

**MATH 555. Nonparametric Statistics. (3-0-3); II. Prerequisites: MATH 353, 354 or 365.** A course in basic nonparametric statistical methods and applications.

**MATH 573. Projective Geometry. (3-0-3); on demand. Prerequisite: MATH 370 or consent of instructor.** A synthetic treatment of projective geometry leading into natural homogeneous coordinates; analytic projective geometry; conics; axiomatic projective geometry; some descendants of real projective geometry.

**MATH 575. Selected Topics. (1 to 6 hrs.); I, II, III. Prerequisite: Consent of instructor.** Topics are offered which meet the needs of the students and which are not otherwise included in the general curriculum.

**MATH 585. Vector Analysis. (3-0-3); on demand. Corequisite: MATH 276.** Vector algebra; vector functions of a single variable; scalar and vector fields; line integrals; generalizations and applications.

**MATH 586. Complex Variables. (3-0-3); on demand. Prerequisite: MATH 310 or 585 or permission of instructor.** Algebra of complex variables, analytic functions, integrals, power series; residues and poles; conformal mappings.

**MATH 595. Topics in the Mathematics Curriculum. (1 to 6 hrs.); I, II, III. Prerequisite: Consent of instructor.** New curricula development in mathematics.

*\*A student may receive credit toward graduation in only one of the following: MATH 353, 354 or 365.*

## Military Science

**MS 101. Introduction to Military Science. (2-0-2); I. Corequisite: MS 101A.** Make your first new peer group at college one committed to performing well and enjoying the

experience. Increase self-confidence through team study and activities in basic drill, physical fitness, rappelling, leadership reaction course, first aid, making presentations and basic marksmanship. Learn fundamental concepts of leadership in a profession in both classroom and outdoor laboratory environments. Participation in a weekend exercise is optional, but highly encouraged.

**MS 101A. Leadership Laboratory. (0-2-1); I. Corequisite: MS 101.** Only open to (and required of) students in the associated Military Science course. Series with different roles for students at different levels in the program. Learn and practice basic skills. Gain insight into Advanced Course in order to make an informed decision whether to apply for it. Build self-confidence and team building leadership skills that can be applied throughout life.

**MS 102. Introduction to Leadership. (2-0-2); II. Corequisite: MS 102A.** Learn/apply principles of effective leading. reinforce self-confidence through participation in physically and mentally challenging exercises with upper division ROTC students. Develop communication skills to improve individual performance and group interaction. Relate organizational ethical values to the effectiveness of a leader. Participation in weekend exercise is optional, but highly encouraged.

**MS 102A. Leadership Laboratory. (0-2-1); II. Corequisite: MS 102.** Only open to (and required of) students in the associated Military Science course. Series with different roles for students at different levels in the program. Learn and practice basic skills. Gain insight into Advanced Course in order to make an informed decision whether to apply for it. Build self-confidence and team building leadership skills that can be applied throughout life.

**MS 201. Self/Team Development. (2-0-2); I. Corequisite: MS 201A.** Learn/apply ethics-based leadership skills that develop individual abilities and contribute to the building of effective teams of people. Develop skills in oral presentations, writing concisely, planning of events, coordination of group efforts, advanced first aid, land navigation, and basic military tactics. Learn fundamentals of ROTC's Leadership Assessment Program. Participation in a weekend exercise is optional, but highly encouraged.

**MS 201A. Leadership Laboratory. (0-2-1); I. Corequisite: MS 201.** Only open (and required of) students in the associated Military Science course. Series with different roles for students at different levels in the program. Learn and practice basic skills. Gain insight into Advanced Course in order to make an informed decision whether to apply for it. Build self-confidence and team building leadership skills that can be applied throughout life.

**MS 202. Individual/Team Military Tactics. (2-0-2); II. Corequisite: MS 202A.** Introduction to individual and team aspects of military tactics in small unit operations. Includes use of radio communications, making safety assessments, movement techniques, planning for team safety/security and methods of pre-execution checks. Practical exercise with upper division ROTC students. Learn techniques for training others as an aspect of continued leadership development. Participation in a weekend exercise is optional, but highly encouraged.

**MS 202A. Leadership Laboratory. (0-2-1); II. Corequisite: MS 202.** Only open to (and required of) students in the associated Military Science course. Series with different roles for students at different levels in the program. Learn and practice basic skills. Gain insight into Advanced Course in

order to make an informed decision whether to apply for it. Build self-confidence and team building leadership skills that can be applied throughout life.

**MS 301. Leading Small Organizations I. (2-0-2); I. Corequisite: MS 301A.** Series of practical opportunities to lead small groups, receive personal assessment and encouragement, and lead again in situations of increasing complexity. Uses small unit tactics and opportunities to plan and conduct training for lower division students both to develop such skills and as vehicles for practicing leading. Two hours and a required leadership lab, MS 301A, plus required participation in three one-hour sessions for physical fitness. Participation on one weekend exercise is also required, and one or two more weekend exercises may be offered for optional participation.

**MS 301A. Advanced Leadership Laboratory. (0-2-1); I. Corequisite: MS 301.** Open only to students in the associated Military Science course. Series with different roles for students at different levels in the program. Involves leadership responsibilities for the planning, coordination, execution, and evaluation of various training and activities with Basic Course students and for the ROTC program as a whole. Students develop, practice, and refine leadership skills by serving and being evaluated in a variety of responsible positions.

**MS 302. Leading Small Organizations II. (2-0-2); II. Corequisite: MS 302A.** Continues methodology of MS 301. Analyze tasks; prepare written or oral guidance for team members to accomplish task. Delegate tasks and supervise. Plan for and adapt to the unexpected in organization under stress. Examine and apply lessons from leadership case studies. Examine importance of ethical decision making in setting a positive climate that enhances team performance. Two hours and required leadership lab, MS 302A, plus required participation in three one-hour sessions for physical fitness. Participation in one weekend exercise is also required, and one or two more weekend exercises may be offered for optional participation.

**MS 302A. Advanced Leadership Laboratory. (0-2-1); II. Corequisite: MS 302.** Open only to students in the associated Military Science course. Series, with different roles for students at different levels in the program. Involves leadership responsibilities for the planning, coordination, execution, and evaluation of various training and activities with Basic Course students and for the ROTC program as a whole. Students develop, practice, and refine leadership skills by serving and being evaluated in a variety of responsible positions.

**MS 339. Cooperative Education in Military Leadership. (0-0-4); III.** Attendance at ROTC Advanced Summer Camp. (Six weeks in duration.)

**MS 401. Leadership Challenges and Goal Setting. (2-0-2); I. Corequisite: MS 401A.** Plan, conduct, and evaluate activities of the ROTC cadet organization. Articulate goals, put plans into action to attain them. Assess organizational cohesion and develop strategies to improve it. Develop confidence in skills to lead people and manage resources. Learn/apply various Army policies and programs in this effort. Two hours and a required leadership lab, MS 401A, plus required participation in three one-hour sessions for physical fitness. Participation in one weekend exercise is also required, and one or two more weekend exercises may be offered for optional participation.

**MS 401A. Advanced Leadership Laboratory. (0-2-1); I. Corequisite: MS 401.** Open only to students in the associate Military Science course. Series with different roles for students at different levels in the program. Involves leadership

responsibilities for the planning, coordination, execution, and evaluation of various training and activities with Basic Course students and for the ROTC program as a whole. Students develop, practice, and refine leadership skills by serving and being evaluated in a variety of responsible positions.

**MS 402. Transition to Lieutenant. (2-0-2); II. Corequisite: MS 402A.** Continues the methodology from MS 401. Identify and resolve ethical dilemmas. Refine counseling and motivating techniques. Examine aspects of tradition and law as related to leading as an officer in the United States Army. Prepare for future as a successful Army lieutenant. Two hours and a required leadership lab, plus required participation in three one-hour sessions for physical fitness. Participation in one weekend exercise is also required, and one or two more weekend exercises may be offered for optional participation.

**MS 402A. Advanced Leadership Laboratory. (0-2-1); II. Corequisite: MS 402.** Open only to students in the associated Military Science course. Series with different roles for students at different levels in the program. Involves leadership responsibilities for the planning, coordination, execution, and evaluation of various training and activities with Basic Course students and for the ROTC program as a whole. Students develop, practice, and refine leadership skills by serving and being evaluated in a variety of responsible positions.

## Mining Technology

**MIN 101. Introduction to Mining and Reclamation. (3-0-3); on demand.** A survey of all phases of the mining industry, emphasizing the importance of safety management and including areas such as production, laws, history, geology, coal analysis and preparation, environmentalism, marketing, uses, economics, reclamation, labor relations, and transportation. Both underground and surface mining techniques are introduced.

**MIN 302. Coal Analysis and Preparation. (2-2-3); on demand.** A study of the various techniques used in analyzing and preparing coal, resulting in findings of coal characterizations such as sulfur, ash, BTU's, and moisture content. The student learns the process of cleaning, sizing, and mixing coal. Safe disposal of wastes and by-products from the preparation of coal is stressed.

**MIN 303. Mine Laws. (3-0-3); on demand. Prerequisite: MIN 101.** A study of underground mining laws and their applications to the underground mine operations. An analysis is made of state and federal codes, their interpretations and applications.

**MIN 305. Surface Mining Systems. (3-0-3); on demand. Prerequisite: MIN 101.** A study of the engineering and management approaches to the various surface mining systems. Topics will include the study of surface mining laws, production and safety techniques, equipment types and their functions, and the management of surface mining operations.

**MIN 307. Hydrology. (3-0-3); on demand. Prerequisites: MIN 101, GEOS 200 or consent of instructor.** A study of surface and subsurface fluid flow systems. Basic areas will include open and closed channel flow, hydrogeology, sedimentation/erosion control, and applicable state/federal regulations.

**MIN 402. Mine Roof and Rib Control. (3-0-3); on demand. Prerequisites: MIN 101 and GEOS 200.** A study of bedded sedimentary formations and the transition of these formations once an opening is excavated through them. Provides a basis for the design of support systems to prevent or control the collapse

or failure of a coal mine roof and ribs both safely and economically.

**MIN 403. Blasting and Explosives. (3-0-3); on demand. Prerequisites: MIN 101 and GEOS 200.** An analysis of the principle types of commercial high explosives and explosive devices, and chemical and physical characteristics of explosives. The fundamentals of blasting design will be covered, including rock breakage mechanisms, overburden, spacing and stemming calculations, and blasting pattern design. Legal issues and safety aspects of explosives and blasting will be stressed.

**MIN 406. Underground Mine Technology. (3-0-3); on demand. Prerequisite: Senior standing.** An in-depth study of the engineering and management approaches to underground mine systems. Special emphasis will be placed on integrating previously learned material to cover the advanced areas of planning, installation, and development of underground mining operations.

**MIN 476. Special Problems in Mining. (1 to 3 hrs.); on demand. Prerequisite: Senior standing.** Designed for the purpose of permitting a student to conduct advanced and specialized studies in mining and/or the energy sector. A written proposal, including a justification, must be submitted to the assigned instructor and to the student's advisor before registration. Each request will be considered as to its relevancy to the education of the student.

## MSU (University Studies)

**MSU 101. Discovering University Life. (1-0-1); I, II.** This course is designed to support new students in making the academic, personal, and social adjustments needed for a successful University experience. *This course is a University required freshman course.*

**MSU 400. The World of Work. (2-0-1); I, II. Prerequisite: Limited to students with senior standing, or with permission of the instructor.** Development of skills in self-assessment, researching companies, locating job opportunities, writing job search documents, and conducting a personalized job campaign.

**MSU 499C. Senior Seminar. (3-0-3); I, II. Prerequisite: Open only to seniors pursuing a Bachelor of University Studies degree.** An integrative course designed to forge an interdisciplinary learning experience centered around a relevant contemporary issue and to culminate the undergraduate experience by preparing for postcollege life. *This course satisfies the integrative component for general education.*

## Music (Conducting)

**MUSC 271. Basic Conducting. (2-0-2); I.** Fundamentals of score reading and baton technique.

**MUSC 471. Choral Conducting. (2-0-2); II. Prerequisite: MUSC 271.** Baton technique, rehearsal procedures, choral diction, and style and interpretation of choral works.

**MUSC 472. Instrumental Conducting. (2-0-2); II. Prerequisite: MUSC 271.** Baton technique, rehearsal procedures, and style and interpretation of instrumental works.

**MUSC 473. Rehearsal Techniques for Jazz Ensembles. (2-0-2); on demand. Prerequisite: MUSC 271.** Special techniques needed in rehearsing jazz, pop, and rock ensembles.

## Music (Education)

**MUSE 215. Microcomputers and Music. (3-0-3); II. Prerequisite: Students must be able to read music in all clefs.** Applications of microcomputers in music. An introduction the

current usage, implementation, and software. *This course satisfies the required core-computer competency for general education.*

**MUSE 221. Music for the Elementary Teacher.** (2-0-2); I, II, III. *Prerequisite: MUST 100, 101, or 131.* Music fundamentals and methods for teaching music to elementary school children.

**MUSE 230. Introduction to Music Education.** (1-0-1); I, II. Orientation to music teaching in the public schools.

**MUSE 325. Materials and Methods for Elementary Grades.** (2-2-3); I. *Prerequisite: MUSE 230. Admission to Teacher Education Program.* Materials and methods for the elementary school with emphasis on the teaching of musical concepts through developmental techniques.

**MUSE 335. Field Experience.** (1 to 3 hrs.); on demand. Two full days weekly of teaching under supervision in public schools in nearby communities.

**MUSE 336. Field Experience.** (1 to 3 hrs.); on demand. Continuation of MUSE 335.

**MUSE 375. Vocal Materials and Methods.** (2-0-2); II. *Prerequisite: MUSE 325. Admission to Teacher Education Program.* The teaching of general music in the junior and senior high schools with emphasis on choral activities.

**MUSE 376. Instrumental Materials and Methods.** (2-0-2); II. *Prerequisite: Credit for applied music in at least two of the following fields: strings, brasswinds, woodwinds, percussion. Admission to Teacher Education Program.* Instructional procedures and materials used in instrumental teaching from the elementary grades through high school.

**MUSE 377. Instrumental Repair and Maintenance.** (1-1-1); I. Demonstration and practice in simple repairs and maintenance of band and orchestral instruments.

**MUSE 378. Piano Pedagogy.** (2-1-2); II. Survey and evaluation of materials and methods for teaching class and private piano.

**MUSE 578. Teaching of Percussion.** (2-0-2); on demand. A study of the development of percussion instruments, literature, and performing techniques.

**MUSE 579. Marching Band Techniques.** (2-0-2); I, III. Techniques of preparing marching bands for performance.

**MUSE 595. Voice Pedagogy.** (3-0-3); on demand. An introduction to the physiological, acoustical, and phonetic bases of singing and private voice instruction. Emphasis on the relationship between scientific fact and the practical application of principle through the use of imagery and phonetic choice.

## Music (Class Applied)

**MUSG 123. Class Piano I.** (0-2-1); I, II.

**MUSG 124. Class Piano II.** (0-2-1); I, II.

**MUSG 126. Traditional English and American Dance.** (0-2-1); on demand. Technique and style of American and English country dances on the circle, square, and contra formation.

**MUSG 135. Class Guitar I.** (0-2-1); I, II.

**MUSG 136. Class Classical Guitar.** (0-2-1); I, II.

**MUSG 137. Class Banjo.** (0-2-1); on demand.

**MUSG 183. Studio Improvisation.** (0-2-1); I, II. Jazz styles, improvisational theories and techniques, with emphasis on small group playing and supervised improvisation. May be repeated for credit.

**MUSG 211. Class Woodwinds.** (0-2-1); I. Not for woodwinds majors.

**MUSG 212. Advanced Woodwinds Techniques.** (0-2-1); II. *Prerequisite: MUSG 211 or prior playing experience with woodwind instruments.* May be substituted for MUSG 211.

**MUSG 213. Class Brasswinds.** (0-2-1); I. Not for brasswinds majors.

**MUSG 214. Advanced Brasswind Techniques.** (0-2-1); II. *Prerequisite: MUSG 213 or prior playing experience with brasswind instruments.* Performance techniques and teaching procedures for brasswind instruments. May be substituted for MUSG 213.

**MUSG 215. Class Harp.** (0-2-1); on demand.

**MUSG 217. Class Percussion.** (0-2-1); I, II.

**MUSG 223. Class Piano III.** (0-2-1); I, II.

**MUSG 224. Class Piano IV.** (0-2-1); I, II.

**MUSG 226. Class Strings.** (0-2-1); I, II.

**MUSG 235. Class Guitar II.** (0-2-1); I, II.

**MUSG 239. Class Voice.** (0-2-1); I, II.

**MUSG 245. Jazz Keyboard I.** (0-2-1); I. *Prerequisite: MUSG 124 or consent of the instructor.* An introduction to jazz keyboard techniques with emphasis on ensemble playing.

**MUSG 246. Jazz Keyboard II.** (0-2-1); II. *Prerequisite: MUSG 245.* Continuation of MUSG 245.

**MUSG 345. Jazz Keyboard III.** (0-2-1); I. *Prerequisite: MUSG 246.* Jazz keyboard techniques with emphasis on solo playing.

**MUSG 346. Jazz Keyboard IV.** (0-2-1); II. *Prerequisite: MUSG 345.* Continuation of MUSG 345.

**MUSG 379. Double Reed Making.** (0-2-1); on demand. Concepts and skills of making double reeds, oboe through contrabassoon. May be repeated for credit.

**MUSG 383. Studio Improvisation.** (0-2-1); I, II. *Prerequisite: Four hours of credit in MUSG 183.* May be repeated for credit.

**MUSG 583. Studio Improvisation.** (0-2-1); I, II. *Prerequisite: Four hours of credit in MUSG 383.* May be repeated for credit.

## Music (History and Literature)

**MUSH 161. Literature of Music I.** (2-0-2); I. Designed to promote intelligent listening and understanding of music of various periods and styles.

**MUSH 162. Literature of Music II.** (2-0-2); II. Continuation of MUSH 161.

**MUSH 261. Music Listening.** (3-0-3); I, II. An introduction to the various styles, periods, and media of music. A general education elective; does not apply toward fulfilling music degree requirements.

**MUSH 329. Church Music.** (2-0-2); on demand. Brief history; techniques of hymn and anthem playing and/or directing; planning the worship service.

**MUSH 361. History of Music I.** (3-0-3); I. A survey of the history of music in Western Europe from its ancient Greek beginnings through the early eighteenth century. *This course satisfies the area studies-humanities for general education.*

**MUSH 362. History of Music II.** (3-0-3); II. The history of music in Western Europe, Russia, and America from the eighteenth century to the present. *This course satisfies the area studies-humanities for general education.*

**MUSH 364. African-American Music.** (3-0-3); on demand. A survey of African-American music in the U. S. from 1600 to present.

**MUSH 365. Jazz History and Literature.** (3-0-3); I. A survey of jazz history from its beginning (ca. 1850) to the present.

**MUSH 565. Music in America.** (3-0-3); II. A survey of the history of American music from colonial times to the present.

**MUSH 581. Literature of the Piano.** (3-0-3); I. Survey of the keyboard music from the sixteenth century to the present.

**MUSH 591. School Band Literature.** (2-0-2); on demand. Examination and criticism of music for training and concert use by groups at various levels of attainment.

**MUSH 592. Vocal Literature.** (3-0-3); on demand. A survey of music for solo voice ensemble, sixteenth through twentieth centuries; stylistic traits, types of composition, sources, and performance practices.

## Music (Ensembles)

Ensembles listed with two course numbers may be repeated for credit, after earning four hours of lower division credit (100 level), a student may enroll for upper division credit (300 level).

**MUSM 135, 335. Clarinet Choir.** (0-2-1); on demand.

**MUSM 136, 336. Woodwind Quintet.** (0-2-1); on demand.

**MUSM 161, 361. Trumpet Choir.** (0-2-1); on demand.

**MUSM 162, 362, 562. Trombone Choir.** (0-2-1); on demand.

**MUSM 163, 363, 563. Tuba and Euphonium Ensemble.** (0-2-1); on demand.

**MUSM 167, 367, 567. Brass Choir.** (0-2-1); I, II. Open to brass players with the consent of the instructor.

**MUSM 168, 368, 568. Brasswind Ensemble.** (0-2-1); on demand.

**MUSM 169, 369, 569. Percussion Ensemble.** (0-2-1); I, II.

**MUSM 170, 370, 570. Concert Band.** (0-2-1); II. Open to all students. Admission by audition.

**MUSM 171, 371, 571. Symphony Band.** (0-2-1); II. Open to all students. Admission by audition.

**MUSM 172, 372, 572. Marching Band.** (0-5-1); I. Open to all students. Required for wind and percussion music education students. Upper division credit after earning two hours of credit.

**MUSM 178, 378. String Ensemble.** (0-2-1); on demand.

**MUSM 179, 379. Orchestra.** (0-2-1); I, II. Open to all string students and to selected wind and percussion players as needed.

**MUSM 181, 381, 581. Jazz Ensemble.** (0-2-1); I, II. Open to all students. Admission by audition.

**MUSM 182, 382, 582. Jazz Vocal Ensemble.** (0-2-1); I, II. Open to all students. Admission by audition.

**MUSM 183, 383, 583. Traditional Music Ensemble.** (0-2-1); on demand.

**MUSM 184, 384, 584. Guitar Ensemble.** (0-2-1); I, II.

**MUSM 187. Piano Sight Reading I.** (0-2-1); I, II. Designed to develop sight reading competence. Required for piano majors.

**MUSM 188. Piano Sight Reading II.** (0-2-1); I, II. Continuation of MUSM 187.

**MUSM 189. Piano Ensemble.** (0-2-1); I, II. Preparation and performance of piano ensemble literature.

**MUSM 190, 390, 590. Vocal Ensemble.** (0-2-1); on demand.

**MUSM 191, 391, 591. University Chorus.** (0-3-1); I, II. Open to all University students interested in singing.

**MUSM 192, 392, 592. Concert Choir.** (0-2-1); I, II. Open to all students. Admission by audition.

**MUSM 193, 393, 593. Chamber Singers.** (0-3-1); I, II. Selected group of 16 singers. Admission by audition.

**MUSM 194, 394, 594. OperaWorks.** (0-2-1); on demand.

*Prerequisite: Consent of instructor.* An introduction to the techniques of musical theatre with emphasis on the integration of music and action-dramatic study of operatic roles.

**MUSM 200, 400. Student Recital.** (0-1-0); I, II. Music students and faculty present a recital each Thursday afternoon. Music students are required to take this course each semester.

**MUSM 387, 388. Accompanying I, II.** (0-2-1); I, II. Two hours of studio accompanying per week.

**MUSM 487, 488. Recital Accompanying.** (0-2-1); I, II.

*Prerequisite: Consent of piano faculty.* Performance of accompaniments for junior or senior recitals. Consent of piano faculty required.

## Music (Private Applied)

Private applied music courses may be repeated for credit. After completing at least four semesters of credit at the 200 level with a minimum grade of C, a student may enroll for courses at the 400 level. At least three semesters of upper division credit in the principal performing area are required for graduation with a major or area of concentration in music.

**MUSP 200, 400. Performance Class.**

**MUSP 201, 401, 501. Private Flute.**

**MUSP 202, 402, 502. Private Oboe.**

**MUSP 203, 403, 503. Private Bassoon.**

**MUSP 204, 404, 504. Private Clarinet**

**MUSP 205, 405, 505. Private Saxophone.**

**MUSP 206, 406, 506. Private Horn.**

**MUSP 207, 407, 507. Private Trumpet.**

**MUSP 208, 408, 508. Private Euphonium.**

**MUSP 209, 409, 509. Private Trombone.**

**MUSP 210, 410, 510. Private Tuba.**

**MUSP 216, 416, 516. Private Harp.**

**MUSP 219, 419, 519. Private Percussion.**

**MUSP 227, 427, 527. Private Violin.**

**MUSP 228, 428, 528. Private Viola.**

**MUSP 229, 429, 529. Private Cello.**

**MUSP 230, 430, 530. Private Double Bass.**

**MUSP 235, 435, 535. Private Classical Guitar.**

**MUSP 236, 436, 536. Private Guitar.**

**MUSP 237, 437, 537. Private Electric Bass.**

**MUSP 238, 438, 538. Private Banjo.**

**MUSP 240, 440, 540. Private Voice.**

**MUSP 241, 441, 541. Private Harpsichord.**

**MUSP 242, 442, 542. Private Organ.**

**MUSP 243, 443, 543. Private Piano.**

**MUSP 262, 462, 562. Private Composition.**

**MUSP 263, 463, 563. Private Conducting.** *With the consent of the instructor.*

**MUSP 360. Junior Recital.** (2-0-2); I, II, III. *Prerequisite: Approval of the music faculty.* A solo public recital of at least 30 minutes.

**MUSP 470. Composition Recital.** (1-0-2); I, II, III. Preparation and performance in recital of student's compositions. With the approval of the music faculty.

**MUSP 498C. Senior Recital.** (2-0-2); I, II. *Prerequisite: Approval of the music faculty.* A solo public recital of approximately 30 minutes duration or no fewer than three solo appearances on Student Recitals with an accompanying research paper and oral presentation covering the works and composers to

be performed. *This course satisfies the integrative component for general education for the BME degree.*

**MUSP 499C. Senior Recital. (3-0-3); I, II. Prerequisite:** *Approval of the music faculty.* A solo recital of approximately 60 minutes with an accompanying research paper and oral presentation covering the works and composers to be performed. *This course satisfies the integrative component for general education for the BM degree.*

## Music (Theory and Composition)

Music students should enroll in the appropriate music theory and music reading courses each semester until the completion of MUST 233, and MUST 237.

**MUST 100. Rudiments of Music. (1-2-2); I, II, III. Prerequisite for MUSE 221.** Fundamentals of music notation and basic elements of music theory. Recorder playing, autoharp accompaniment, and singing.

**MUST 101. Introduction to Music Theory. (1-2-2); I, II.** An introduction to the basic elements of music theory.

**MUST 102. Introduction to Music Reading. (1-2-2); I, II.** An introduction to the concepts and applications of reading music, vocally and instrumentally.

**MUST 131. Music Theory I. (2-2-3); I, II. Prerequisite:** *MUST 101 or demonstration of equivalent competencies on the Music Department Entrance Examination.* An extensive study of the basic elements of music (calligraphy, rhythm, meter, pitch, materials), emphasizing monodic, two and three-voice textures; timbral qualities of the instruments; basic diatonic harmony.

**MUST 132. Music Theory II. (2-2-3); I, II. Prerequisite:** *MUST 131 or demonstration of equivalent competency on the Music Department Entrance Examination.* A continuation of Music Theory I, with emphasis on three and four-voice textures, figured bass, secondary dominants, binary and ternary forms, transposition and scoring for small ensembles, and tonality changes. Supportive ear training to accompany these areas where applicable.

**MUST 133. Music Reading I. (0-2-1); I, II. Prerequisite:** *MUST 102 or determination of equivalent competency by Music Department Entrance Examination.* An ensemble approach to the development of basic skills of tonal and rhythmic reading through supervised vocal and instrumental reading experiences.

**MUST 135. Music Reading II. (1-2-2). Prerequisite:** *MUST 133.* Continuation of MUST 133.

**MUST 233. Music Reading III. (2-2-3); I, II. Prerequisite:** *MUST 135 or determination of equivalent competency by the Music Department Entrance Examination.* A continuation of Music Reading II, with emphasis on the individual development of vocal and instrumental music reading skills.

**MUST 236. Music Theory III. (1-2-2); I, II. Prerequisite:** *MUST 132 or determination of equivalent competency by Music Department Entrance Examination.* A continuation of Music Theory II, with emphasis on the broadening of total and rhythmic vocabulary through study of chromatic harmony and more complex metric rhythmic patterns.

**MUST 237. Music Theory IV. (1-2-2); I, II. Prerequisite:** *MUST 236 or determination of equivalent competency by the Music Department Entrance Examination.* A continuation of Music Theory III, with emphasis upon Post-Impressionistic Twentieth Century materials and styles.

**MUST 263. Elementary Composition I. (1-1-2); on demand. Prerequisite:** *MUST 237 or consent of the instructor.* Study and practice of basic formal compositional principles.

**MUST 264. Elementary Composition II. (1-1-2); on demand. Prerequisite:** *MUST 263.* Continuation of MUST 263.

**MUST 331. Counterpoint. (2-0-2); on demand. Prerequisite:** *MUST 132.* Writing of sixteenth and eighteenth century strict and free counterpoint, canon, invention, fugue. Some twentieth century techniques.

**MUST 363. Intermediate Composition I. (1-1-2); on demand. Prerequisite:** *MUST 264.* Study and writing of original creative work. One hour weekly in private study; one hour in composition seminar-colloquium.

**MUST 364. Intermediate Composition II. (1-1-2); on demand. Prerequisite:** *MUST 363.* A continuation of MUST 363.

**MUST 433. Arranging for Jazz Ensembles I. (2-0-2); on demand.** Techniques of arranging for large and small jazz ensembles.

**MUST 434. Arranging for Jazz Ensembles II. (2-0-2); on demand. Prerequisite:** *MUST 433.* Continuation of MUST 433.

**MUST 465. Form Analysis. (2-0-2); on demand. Prerequisite:** *MUST 237, 233.* A study of the elements of musical design through aural and score analysis.

**MUST 531. Arranging. (2-0-2); on demand. Prerequisite:** *MUST 237, 233, or the equivalent.* Scoring, arranging, transcribing, of selected or original materials for voices and/or instruments.

**MUST 532. Advanced Arranging. (2-0-2); on demand. Prerequisite:** *MUST 531.* Continuation of MUST 531.

**MUST 563. Advanced Composition I. (1-1-2); on demand. Prerequisite:** *MUST 364.* Study, writing, and performance of students' original creative work. Private conferences and composition seminar in colloquium.

**MUST 564. Advanced Composition II. (1-1-2); on demand. Prerequisite:** *MUST 563.* Continuation of MUST 563.

**MUSW 476. Special Problems in Music I, II, III (1 to 3 hrs.). Prerequisite:** *Consent of instructor.* Independent study and research in an area of the student's choosing. Requires completion of paper or other tangible evidence of the results of the study.

## Nursing (Associate)

**NURA 100. Fundamentals of Nursing. (3-9-6); I. Prerequisite:** *Official acceptance in the nursing program. Co-requisites:* *BIOL 231, PSY 154, MATH 135 or higher and SPCH 108.* A study of nursing theory and basic nursing skills involved in meeting the human needs of patients. The nursing process and roles of the associate degree nurse and health care team members are introduced. Emphasis is placed on nursing care of the adult patient. Three hours theory, nine hours clinical and/or campus laboratory activities per week.

**NURA 101. Maternity Nursing. (2.5-4.5-4); II. Prerequisite:** *Successful completion of the first semester of the nursing program. Co-requisites:* *BIOL 232, CHEM 101, PSY 156 and NURA 102.* A family centered and human needs approach to the study of the maternity process. Emphasis is placed on the roles of the associate degree nurse which includes provider of care, manager of care, and member within the discipline in maternity nursing. Two and one-half hours theory, four and one-half hours clinical and/or campus laboratory activities per week.

**NURA 102. Mental Health Nursing. (2.5-4.5-4); II. Prerequisites:** *Successful completion of the first semester of the nursing program. Co-requisites:* *BIOL 232, CHEM 101, PSY 156 and NURA 101.* A study of mental health nursing at any stage of the life span. Emphasis is placed on the roles of the associate degree nurse which includes provider of care, manager of care, and member within the discipline in mental

health nursing. Two and one-half hours theory and four and one-half hours of clinical and/or campus laboratory activities per week.

**NURA 203. Child Adult Nursing I. (5-9-8); I. Prerequisite:**

*Successful completion of the first two semesters of the nursing program. Co-requisites: CIS 101, ENG 100, and BIOL 217 or BIOL 317.* A study of the nursing care of individuals from infancy throughout the life span who have commonly occurring alterations in health. Emphasis is placed on the roles of the associate degree nurse for nursing care of adults and children. Five hours theory and nine hours clinical and/or campus laboratory activities per week.

**NURA 204. Child Adult Nursing II. (5-15-10); II. Prerequisites:**

*Successful completion of the first three semesters of the nursing program. Co-requisites: NURA 210, ENG 200, SOC 101.* A continuation of NURA 203 with inclusion of more complex nursing skills and nursing care of individuals with multiple alterations in health. Five hours theory and fifteen hours clinical and/or campus laboratory activities per week.

**NURA 210. Nursing Issues and Trends for the Associate Degree Nurse. (2-0-2); II. Prerequisites:** *Successful completion of the first three semesters of the nursing program. Co-requisites: NURA 204, ENG 200, SOC 101.* A discussion of current issues and trends in nursing. Historical, economic, technological, legal, and ethical components of nursing as they affect associate degree nursing practice are considered. Two hours theory per week.

## Nursing (Bachelor's)

**NURB 152. Basic Concepts and Theories. (2-0-2); II.** This course is designed to introduce selected concepts and theories upon which professional nursing is based. Open to non-nursing majors and required for nursing majors.

**NURB 246. Basic Nursing Concepts I. (3-0-3); I.**

*Prerequisite: Successful completion of the thirty-five credit hours required in the freshman year and official admission to the BSN program. Co-requisites: BIOL 217, NURB 247, NURB 249, and NURB 254.* The study of human needs of individuals in all stages of the lifespan. The focus is on the nursing process, legal and ethical issues, professional nursing; and basic nursing concepts related to health. Three hours of theory per week.

**NURB 247. Basic Nursing Skills. (0-6-2); I. Prerequisite:** *Successful completion of the thirty-five hours required in the freshman year and official admission to the BSN program. Co-requisite: BIOL 217, NURB 246, NURB 249, NURB 254.* Focus of this course is on the basic nursing skills that will provide a foundation for progression through the program and for professional nursing practice. Six hours of laboratory experience per week.

**NURB 249. Pharmacology. (3-0-3); I.** Open only to students officially admitted to the BSN program and any registered nurse. The introductory study of pharmacological agents used to promote, maintain, and restore health. Focuses on concepts of medication administration and the role and function of the professional nurse as related pharmacological agents. Three hours of theory per week.

**NURB 254. Health Assessment. (2-3-3); I. Prerequisite:** *Successful completion of thirty-five hours required in the freshman year and official admission to the BSN (Prelicensure) Program or officially admitted to the RN (Postlicensure) Track. Co-requisites: BIOL 217, NURB 246, NURB 247, and NURB 249.* The performance of comprehensive physical and psychosocial health assessments as related to the role and function of the professional nurse. Normal and abnormal findings of health assessments are differentiated. Two hours of theory and three hours of laboratory experience per week.

**NURB 256. Basic Nursing Concepts II. (3-6-5); II.** *Prerequisite: Successful completion of the first three semesters*

*of the BSN curriculum. Co-requisites: BIOL 336, HS 201, NUB 310 and NURB 312.* The focus is on psychosocial concepts and management of nursing care for patients at any stage of the life span with common health alterations in oxygenation, cell structure, fluid and electrolyte balance, ingestion, digestion, absorption and elimination. The opportunity for application of concepts is provided through clinical experiences. Three hours of theory and six hours of clinical and/or campus lab per week.

**NURB 310. Community Health Nursing. (3-0-3); II.**

*Prerequisite: Successful completion of the first three semesters of the BSN curriculum. Co-requisites: BIOL 336, NURB 256 and NURB 312.* Explores factors that influence the health of individuals, families, and groups across the life span and the role of the nurse in providing community-oriented care. Health promotion and disease prevention are emphasized. Three hours of theory per week.

**NURB 311. Community Health Nursing Practicum. (-0-3-1); I. Prerequisite:** *Officially admitted to the RN (Postlicensure) track and completion of the first semester of the RN (Postlicensure) required curriculum. Co-requisite: NURB 310 or NUR 735 (University of Kentucky course).* Involves supervised clinical experiences in health promotion, disease prevention, and management of nursing care of individuals, families, and groups throughout the life span within a variety of community settings. Three hours of clinical per week.

**NURB 312. Teaching and Learning in Health Care. (2-0-2); II. Prerequisite:** *Successful completion of the first three semesters of the BSN (Prelicensure) or officially admitted to RN (Postlicensure) Track Component. Co-requisites: BIOL 336, NURB 256, and NURB 210.* The study of concepts and theories of teaching and learning as related to promoting, maintaining, and restoring health. Emphasis is on the role and function of the professional nurse as an educator in health care. Two hours of theory per week.

**NURB 350. Nursing Care of the Childbearing Family. (2.5-4.5-4); I. Prerequisite:** *Successful completion of the first four semesters of the BSN curriculum. Co-requisite: MATH 353 and NURB 351.* Study of the management of nursing care for the childbearing family during pregnancy. Normal and common alterations of pregnancy are considered. Physical, psychosocial, cultural, and developmental aspects of the childbearing family are emphasized. Two and one-half hours of theory and four and one-half hours of clinical and/or campus lab per week.

**NURB 351. Nursing Care of Children. (2.5-4.5-4); I.** *Prerequisites: Successful completion of the first four semesters of the BSN curriculum. Co-requisites: MATH 353 and NURB 350.* The management of nursing care is emphasized to promote, maintain, and restore health to children from infancy through adolescence is considered. Two and one-half hours of theory and four and one-half hours of clinical and/or campus lab per week.

**NURB 361. Introduction to Nursing Research. (3-0-3); II. Prerequisite:** *Successful completion of the first five semesters of the BSN curriculum or officially admitted to the RN (Postlicensure) Track, MATH 135 and MATH 353. Co-requisite: NURB 362 and NURB 363.* An introduction to the research process and utilization of nursing research as the basis for professional nursing practice. Focus is on the critiquing of nursing research to determine reliability and validity.

**NURB 362. Adult Nursing I. (4-9-7); II. Prerequisite:** *Successful completion of the first five semesters of the BSN curriculum. Co-requisites: NURB 361 and NURB 363.*

Involves the management of young, middle, and older adults across a broad continuum of health in a variety of structured and unstructured settings. Emphasis is placed on those processes which form a foundation to promote, maintain, and restore health of individuals, families, and aggregates. Four hours of theory and nine hours of clinical experience and/or lab per week.

**NURB 363. Mental Health Nursing. (2-6-4); II.**

*Prerequisite:* Successful completion of the first five semesters of the BSN curriculum. *Co-requisites:* NURB 361 and NURB 362. Emphasis is on the management of nursing care for patients at various stages of the life span with alterations of mental health. Two hours of theory and six hours of clinical experience and/or lab per week.

**NURB 365. Concepts and Theories Basic to Professional Nursing for the RN (Postlicensure) Track Student. (3-0-3); I, II.** *Prerequisite:* Registered Nurse (R.N.) Licensed. The study of concepts and theories that provides the basis for the practice of professional nursing. The focus is on the role, functions, and characteristics of the educationally prepared baccalaureate nurse, with emphasis on the Baccalaureate Nursing Program's philosophy, organizing framework and curriculum.

**NURB 375 A - D. Transitional Course in Clinical Nursing for the RN (Postlicensure) Track Student. (5-12-10); II.**

*Prerequisite:* Licensed Registered Nurse (R.N.) An accelerated course in theory content and clinical experience designed to update and validate the status of the registered nurse student. This course is divided into the following areas:

NURB 375 A--Mental Health Nursing (1-3-2)

NURB 375 B--Maternity Nursing (1-3-2)

NURB 375 C--Nursing of Children (1-3-2)

NURB 375 D-- Adult Nursing (2-6-4).

These courses must be successfully challenged or completed prior to admission to the program. Upon acceptance to the program, a total of 34 hours will be granted for NURB 246, NURB 247, NURB 256, NURB 350, NURB 351, NURB 362, NURB 363, and NURB 454.

**NURB 454. Adult Nursing II. (5-15-10); I.** *Prerequisite:* Successful completion of the first six semesters of the BSN curriculum. Involves the management of nursing care for complex health care needs of young, middle, and older adults and their families in a variety of health care settings. A continuation of NURB 362 that involves adults with multiple health care problems. Five hours of theory and fifteen hours of clinical and/or lab experience per week.

**NURB 457. Advanced Nursing Concepts for the RN Track Student. (2-6-4); I.** *Prerequisite:* Successful completion of the first two semesters the BSN (Postlicensure) program. The focus is on the role and function of the professional nurse in management of nursing care of individuals, families and aggregates with multiple and complex health alterations at various stages of the life span within a variety of health care settings. Two hours of theory and six hours of clinical per week.

**NURB 461. Nursing Leadership and Management. (3-0-3); II.** *Prerequisite:* Successful completion of the first seven semesters of the BSN curriculum. *Co-requisite:* NURB 473, 498, and 499C. The role and function of the professional nurse as a manager of nursing care is studied in relation to leadership and management theories, strategies and principles of management. Three hours of theory per week.

**NURB 472. Independent Study in Nursing. (1-6 credits); I, II, III.** *Prerequisite:* Officially admitted to BSN program and be

a junior or senior level student. Opportunity for in-depth study in an area of special interest in nursing.

**NURB 473. Issues and Trends in Nursing. (3-0-3); II.** *Prerequisite:* Successful completion of the first seven semesters of the BSN curriculum. *Co-requisites:* NURB 461, NURB 398 and NURB 499C. The study of current issues and trends relevant to nursing with consideration of historical, social, legal, and ethical, political, legislative, and health policies that impact on the practice of professional nursing.

**NURB 498. Nursing Senior Seminar. (2-0-2); II.** *Prerequisite:* Successful completion of the first seven semesters of the BSN curriculum. *Co-requisites:* NURB 461, NURB 473, and NURB 499C. Emphasizes in depth examination of phenomenon of concern to professional nursing.

**NURB 499C. Advanced Nursing Practicum. (0-9-3); II.** *Prerequisite:* Successful completion of the first seven semesters of the BSN curriculum. *Co-requisites:* NURB 461, NURB 473, and NURB 498. This course provides opportunities for students under supervision to apply principles from mathematics, natural sciences, humanities and nursing to the practice of professional nursing in a clinical area of interest or need. Emphasis will be on application of advanced nursing and nursing leadership/management concepts and theories. Nine hours of clinical activities per week. *This course satisfies the integrative component for general education.*

## Nursing & Allied Health Sciences

**NAHS 100. Orientation to Health Care Professions. (1-0-1).** A study of career opportunities available in health care, the standard program requirements and an overview of the job responsibilities.

**NAHS 202. Medical Terminology. (2-0-2); I, II.** The study of vocabulary components and terms related to sciences and medicine. Previous knowledge of medicine or related discipline is not necessary.

**NAHS 300. Ethical and Legal Issues in Health Care. (3-0-3); I, II.** This course is an overview of the ethical and legal issues in today's health care environment. Emphasis includes such areas of discussion as confidentiality, HIV/AIDS, artificial life support, euthanasia, abortion, genetic science. Allocation of resources and professional gatekeeping. *Meets general education requirement in area of social and behavioral sciences.*

**NAHS 301. Selected Topics. (1 to 3 hrs.); on demand.** *Prerequisite:* Consent of instructor. Investigation of specific topics of interest related to nursing and/or allied health sciences.

**NAHS 302. Health Maintenance Throughout the Life Span. (3-0-3); I, II.** This course is designed to increase one's awareness of the importance of health maintenance throughout the life span. Emphasis will be on the concepts of health maintenance through health promotion and illness prevention strategies for all stages of the life span. *This course satisfies the area studies-practical living requirement in general education.*

**NAHS 303. Women's Health Care. (3-0-3); I, II.** Increase one's awareness of the importance of Women's Health Care in all dimensions. Emphasis will be placed on health maintenance issues for women that include women's developmental issues throughout their life span, general guidelines for health care (including screening and interventions), sexuality facts, health needs and problems related to the reproductive system, selected health care issues, and psychosocial concerns. *This course satisfies the area studies-practical living for general education.*

**NAHS 473. Health Care Management of Children. (3-0-3).**

*Open to any interested student.* Promotion of wellness of children and adolescents with emphasis on meeting the health care needs of children in the classroom and home. Discussion of basic first aid, common acute and chronic illness in children.

**NAHS 475. Human Sexuality: A Holistic Viewpoint. (3-0-3).**

*Open to any interested student.* A study of the biopsychosocial factors inherent with the sexuality of human beings and their influences on behavior.

**NUR 151. Interpersonal Skills for Health Promotion. (2-0-2); II.**

Focuses on components of interpersonal relationships. Emphasizes health promotion through the use of self-awareness, effective communication skills, stress and coping behaviors, and assertiveness skills. Open to all majors.

**NUR 480. Nursing Diagnostic Seminar. (2-0-2); II. Prerequisite:** *Successful completion of the first seven semesters of the BSN curriculum or the first three semesters of the ADN curriculum.* This course is designed to assess the student's nursing knowledge. Based on the assessment results, the faculty will provide review, guidance, and learning experiences to assist the student in meeting identified learning needs.

## Paralegal Studies

**PLS 210. Introduction to Paralegalism. (3-0-3); II.**

*Prerequisite:* **GOVT 141.** A study of law and the legal system, the responsibilities and ethics of the paralegal, and the major elements of the paralegal program.

**PLS 321. Legal Research. (3-0-3); I. Prerequisites:** **GOVT 141 and PLS 210.**

A study of primary and secondary legal authority, the proper form of citations and techniques for searching, validating and analyzing legal authority.

**PLS 322. Legal Writing. (3-0-3); II. Prerequisites:** **GOVT 141, PLS 210, and PLS 321.** A study of the methods using legal authority to construct a written argument with an emphasis on legal writing style and drafting techniques.

**PLS 325. Civil Litigation for the Paralegal I. (3-0-3); I.**

*Prerequisites:* **PLS 210, PLS 321, PLS 322, or consent of the instructor. An overview of the study of civil litigation, concentrating on the principles of litigation, the lawyer-client relationship, ethics, court organization, jurisdiction, an introduction the Rules of Civil Procedure and the Rules of Evidence, as they pertain to the pleading stages of civil litigation; and studying the procedures utilized for gathering evidence and investigating cases.**

**PLS 326. Civil Litigation for the Paralegal II. (3-0-3); II.**

*Prerequisites:* **PLS 210, PLS 321, PLS 322, PLS 325, or consent of the instructor. Continues the study of the techniques of civil litigation begun in PLS 325, Civil Litigation for the Paralegal I, emphasizing the Rules of Civil Procedure and the Rules of Evidence during the discovery stages of litigation, with emphasis on drafting documents related to the discovery, trial and appeal stages of civil litigation.**

**PLS 332. Property Law. (3-0-3); II. Prerequisite:** **PLS 210.**

A study of real and personal property with an emphasis on related forms, documents, and procedures, including title examination and real estate transfers.

**PLS 333. Family Law. (3-0-3); I. Prerequisites:** **PLS 210 or equivalent, or consent of the instructor.** The main emphasis is the study of domestic law including modern divorce (marriage dissolution), annulments, antenuptial agreements, child support and custody, alimony, property division, and related tax consequences. Also studied briefly are spouse and child abuse

remedies, the rights of women and children and the juvenile court.

**PLS 334. Torts, Personal Injury Litigation, and Insurance Law. (3-0-3); I.** A study of the law of torts with emphasis on forms, documents, and procedures related to personal injury litigation and insurance claims.

**PLS 335. Contracts and the Uniform Commercial Code. (3-0-3); I.** A practical course in simple contract law and its evolution into modern day sales law under the Uniform Commercial Code. Additionally, the course studies other aspects of the Uniform Commercial Code such as Secured Transactions, Creditor/Debtor remedies, and Negotiable Instruments.

**PLS 336. Wills, Trusts, and Estates. (3-0-3); II.**

*Prerequisites:* **PLS 210 or equivalent or consent of the instructor.** A study of the law and practice of wills, trusts, and estate administration for the paralegal with particular emphasis on forms and documents.

**PLS 337. Corporate Law. (3-0-3); II.** The business corporation is the most versatile form of business association. This course studies the law of business corporations with an emphasis on related forms and documents.

**PLS 340. Criminal Law and Procedure. (3-0-3); II.**

*Prerequisite:* **PLS 210 and GOVT 327.** A study of the law of crimes against persons and property, defenses to prosecution and punishment, and of criminal procedure and evidence, with an emphasis on the Kentucky Penal Code and related forms and documents.

**PLS 360. Paralegal Specialty Course. (3-0-3); on demand.**

*Prerequisites:* **PLS 210 and consent of the instructor.** A practice-oriented study of specialized areas of law not examined in the core curriculum which will emphasize the use of forms and documents. A different legal specialty will customarily be chosen each time the course is offered. May be repeated once for credit.

**PLS 476. Special Problems in Paralegal Studies. (1-3 hours); on demand. Prerequisite:** *Consent of the instructor.*

Original research project or readings in a particular subject area. Open only to Paralegal Studies majors.

**PLS 490. Paralegal Internship. (3-0-3); I, II, III.**

*Prerequisites:* **PLS 499C or consent of the Paralegal Studies Coordinator.** The development and application of paralegal skills through a practicum requiring the student to work 120 hours under the direct supervision of an attorney in a law office or other appropriate legal environment.

**PLS 499C. Senior Paralegal Practice Seminar. (3-0-3); I.**

*Prerequisites:* **BIS 113, CIS 101 or equivalent, PLS 326 and senior standing or consent of instructor.** An advanced course to be taken prior to the paralegal internship. The course is a study in the use of and implementation of technology in the law office emphasizing document generation techniques, docket control and case management systems, time and billing systems and Computer Assisted Legal Research (CALR). *This course satisfies the integrative component for general education.*

## Personal Development Institute

**PDI 100. Personal Development. (1-0-1); I, II.** This is a nine-week elective course structured in the Institute format. The course covers such areas as: personality enhancement, attitude improvement, building self-esteem, visual poise, sharpening social skills, and improved interpersonal relationships.

## Physical Education

**PHED 100. Golf. (0-2-1); I, II, III.** Emphasis on skill, knowledge, and techniques for individual participation.

**PHED 101. Tennis. (0-2-1); I, II, III.** Emphasis on skill, knowledge, tactics, and techniques for individual participation.

**PHED 102. Badminton. (0-2-1); I, II.** Emphasis on skill, knowledge, tactics, and techniques for individual participation.

**PHED 103. Archery. (0-2-1); I, III.** Emphasis on skill, knowledge, tactics, and techniques for individual participation.

**PHED 104. Gymnastics. (0-2-1); I.** Emphasis on self-testing activities.

**PHED 105. Conditioning. (0-2-1); I, II.** Emphasis on developing fitness through a variety of exercises and activities.

**PHED 107. Bowling. (0-2-1); I, II.** Basic movement skills involved in bowling.

**PHED 108. Restricted Physical Education. (0-2-1); I, II.** Students with either a structural or functional problem. (May be repeated one time for credit.)

**PHED 109. Elementary Horsemanship. (0-2-1); I, II.** (See AGR 109.)

**PHED 113. Soccer. (0-2-1); II.** Techniques and participation in soccer.

**PHED 117. Stunts and Tumbling. (0-2-1); I, II.** Skills that promote strength, individual control and development, and group perfection.

**PHED 118. Volleyball. (0-2-1); I, II.** Rules, techniques, and participation in volleyball.

**PHED 120. Basic Rhythms. (0-2-1); I, II.** Skills and knowledge in fundamentals of dance.

**PHED 121. Modern Dance. (0-2-1); I.** Movement as means of self expression.

**PHED 122. Social Dance. (0-2-1); I, II.** Steps and combination of popular dances.

**PHED 123. Folk and Square Dancing. (0-2-1); I, II.** Movements of American square dance.

**PHED 124. Canoeing. (0-2-1); I, III.** Emphasis on skill, knowledge, and tactics in all types of streams.

**PHED 125. Basketball Skills. (0-2-1); I, II.** Skills of basketball.

**PHED 127. Racquetball. (0-2-1); I, II.** Emphasis on skill, knowledge, and strategy.

**PHED 130. Beginning Swimming. (0-2-1); I, II.** Learning to swim well enough to care for one's self under ordinary conditions.

**PHED 131. Intermediate Swimming. (0-2-1); I, II.** Perfection of standard strokes, diving.

**PHED 132. Life Saving. (0-2-1); I, II, III.** Rescue methods in all types of water.

**PHED 133. Instruction to Water Safety. (0-2-1); I, II.** *Prerequisite: Current Senior Lifesaving Certificate.* Teaching methods and techniques in lifesaving.

**PHED 134. Introduction to Sailing. (0-2-1); I, II, III.** Basics of sailing, including knowledge, terminology, and skills of handling an intermediate-sized sailboat in calm waters and moderate winds.

**PHED 140. Aerobics. (0-2-1); I, II.** Emphasis on knowledge, techniques, aerobic fitness and safety methods involved with individual participation in a variety of aerobic formats.

**PHED 141. Weight Training. (0-2-1); I, II.** Emphasis on knowledge, techniques, methods, and training program development for those interested in strength development.

**PHED 142. Softball. (0-2-1); I, II.** Emphasis on skill and performance enhancement, as well as increasing basic knowledge and strategic background.

**PHED 143. Backpacking and Orienteering. (0-2-1); I, II, III.** Designed to develop a working knowledge pertaining to the fundamentals of survival camping. Focus on the development of stamina and physical endurance. (9 weeks class.)

**PHED 150. Introduction to Physical Education. (3-0-3); I, II.** Principles and basic philosophy, aims, and objectives; standards; and significance in profession of physical education.

**PHED 201. Introduction to Coaching. (3-0-3); I, II.** Emphasis on various coaching methods and techniques.

**PHED 204. Officiating. (2-0-2); I, II.** Interpretation of rules for major sports. Methods and techniques of officiating; laboratory experience in officiating.

**PHED 205. Lifetime Fitness (A Scientific Approach.) (2-2-3); I, II, III.** *Prerequisite: Complete physical examination within last year.* Designed to provide the student with scientifically-based knowledge concerning practical application of physical fitness training and evaluation procedures while participating in a fitness program.

**PHED 211. Lifeguard Training. (1-2-2); I, II, III.** *Prerequisite: PHED 132 or C.P.R. card.* Responsibilities of lifeguards, equipment, health and sanitation, and inspection of waterfront areas.

**PHED 212. Games and Rhythms for Elementary Teachers. (3-0-3); I.** Designed to expose students to a broad range of elementary school rhythmic activities and games, as well as provide opportunities to teach these activities.

**PHED 220. Athletic Training I. (3-0-3); I.** *Prerequisites: HLTH 151, BIOL 231.* An introduction to athletic training, including basic injury prevention, management, and rehabilitation principles.

**PHED 221. Therapeutic Modalities. (1-2-2); I.** *Prerequisites: HLTH 151, PHED 220.* Study and use of therapeutic modalities for athletic injury, treatment and rehabilitation.

**PHED 300. Physical Education in the Elementary School. (2-2-3); I.** *Prerequisite: Admission to the teacher education program.* Emphasis on planning, implementing and evaluating a developmentally appropriate elementary physical education program. Peer teaching, laboratory experiences, and supervised experiences in public schools are an integral part of the program.

**PHED 301. Evaluation in Physical Education and Recreation. (3-0-3); I.** Methods, techniques, and procedures used in evaluation of students in physical education and recreation.

**PHED 303. Physical Education in the Secondary School. (2-2-3); II.** *Prerequisite: Admission to teacher education program.* Selection and organization of materials and techniques of instruction for secondary school program.

**PHED 311. Movement Exploration. (2-2-3); I, II, III.** Child-centered program with the demonstration of methods whereby a child may learn to move experimentally, expressively, and efficiently.

**PHED 315. Motor Development and Motor Learning. (3-0-3); I.** *Prerequisites: EDF 211, BIOL 231.* Understanding the principles of motor development and learning to use these when teaching students at various developmental stages, to promote optimal learning.

**PHED 326. Exercise Program Leadership. (2-2-3); II.** Emphasis on leadership skills, motivational techniques, choreography, administrative functions dealing with equipment

purchase, organization and use, and experiences in aerobic exercise and personal training formats.

**PHED 330. Scientific Bases of Coaching. (3-0-3); I.**  
*Prerequisite: BIOL 231 or consent of department chairperson.* A study of the physiological, biomechanical, and nutritional dimensions of the coaching of sports.

**PHED 332. Principles of Strength and Conditioning. (3-0-3); I.** A study of the physiological, biomechanical, and administrative aspects of designing and supervising strength and conditioning programs for various sports.

**PHED 336. Foundations of Sport Psychology. (3-0-3); I, III.** *Prerequisite: PSY 154 or consent of department chairperson.* Focus on theories and practices which when understood and used can enhance the coach-athlete relationship and improve sport performance.

**PHED 340. Athletic Training II. (3-0-3); II.** *Prerequisites: PHED 220, BIOL 232. Co-requisites: PHED 221 and PHED 341.* An advanced course involving all aspects of the athletic training/sports medicine field.

**PHED 341. Athletic Injury Assessment. (1-2-2); II.**  
*Prerequisites: PHED 220 and 340.* Evaluation of athletic injuries.

**PHED 350. Coaching of Sport. (1-2-2); I, II, upon demand.** May be repeated as separate sections. Students will demonstrate knowledge of sport and develop and implement sport specific experiences to improve their ability to coach effectively.

- |                                      |               |
|--------------------------------------|---------------|
| a. Baseball                          | f. Soccer     |
| b. Basketball                        | g. Softball   |
| c. Cross Country,<br>Track and Field | h. Swimming   |
| d. Football                          | i. Tennis     |
| e. Golf                              | j. Volleyball |
|                                      | k. Wrestling  |

**PHED 360. Health and Physical Education in the Middle School. (3-0-3); I, II.** *Prerequisite: Admission to the Teacher Education Program.* The selection and organization of material and methods of instruction for the intermediate school.

**PHED 401. Organization and Administration of Physical Education. (3-0-3); I.** Arrangement of units making up physical education program, and process of leadership by which serious aspects are brought together in a functioning whole.

**PHED 402. Kinesiology. (3-0-3); II.** *Prerequisite: BIOL 231 and BIOL 232.* Study of structural and mechanical factors in human motion.

**PHED 420. Administration of School Athletic Programs. (3-0-3); I, II.** Administrative principles and procedures applicable to school athletic program.

**PHED 430. The Psychosocial Dimensions of Sport and Physical Activity. (3-0-3); II.** *Prerequisites: PSY 154, SOC 101, Admission to Teacher Education Program.* Understandings regarding the psychological and sociological factors influencing performance in physical activities.

**PHED 432. Physiology of Exercise. (3-0-3); I, II.** Study of response of the body to muscular activity; work and efficiency, cardiorespiratory adjustment, training, and fitness. (Laboratory experiences are an integral part of course.)

**PHED 475. Adapted Physical Education. (2-2-3); I.** Characteristics of exceptional students with disabilities and means whereby these students can be aided by physical education. On-site adapted physical education clinic is an integral part of the course.

**PHED 477. Coaching Internship. (0-6-3); I, II, III.**  
*Prerequisite: Completion of 75 percent of required courses in*

*the coaching minor or consent of department chairperson.* Planning, leadership, supervision, and program evaluation in coaching under qualified administrative leadership and University faculty supervision. Laboratory experiences at the interscholastic and/or intercollegiate level are an integral part of the course. Application must be made through the department chairperson.

**PHED 490. Internship in Athletic Training. (0-18-6); I, II.**  
*Prerequisites: BIOL 231, PHED 220, PHED 221, PHED 340 and PHED 341. Admission to the Athletic Training Internship Program. Co-requisites: PHED 402 and 432.* An advanced class with "hands on" experience which is required for certification.

**PHED 499C. Senior Capstone. (1-0-1); I, II.** Course draws on a variety of learning and assessment activities used to document student progress toward professional goals relative to K-12, Teaching Physical Education Program. To be taken during last semester of campus course work. *This course satisfies the integrative component for general education.*

**PHED 550. Planning and Managing Exercise Programs. (3-0-3); I.** A lecture-discussion course emphasizing knowledge, methods in planning, designing, managing, and improving exercise programs.

**PHED 551. Exercise Testing and Prescription. (3-0-3); II.** Knowledge and skills in the area of fitness evaluation, exercise prescription and delivery of exercise programs to normal/special populations.

**PHED 552. Exercise Science Practicum. (0-18-6); on demand.** *Prerequisite: PHED 550 and PHED 551.* Practical experience in clinical and hospital settings working with predisposed and symptomatic heart-diseased individuals. Students will work with participants in adult fitness programs learning supervisory and leadership roles.

**PHED 576. Special Problems in Physical Education. (1 to 3 hrs.); I, II, III.** *Prerequisite: Senior or graduate classification.* Intensive study of an approved, specific physical education problem, under direction of instructor.

**PHED 599. Workshop. (1 to 3 hrs.); I, II, III.** Workshop for specifically designated task orientation in physical education. May be repeated in additional subject areas. Maximum of six semester hours may be earned under this course number.

## Philosophy

**PHIL 200. Introduction to Philosophy. (3-0-3).** An introduction to some of the central problems of philosophy, such as problems about free will, personal identity, knowledge, the nature of reality, right and wrong, and the meaning of life. *This course satisfies the area studies-humanities for general education.*

**PHIL 203. Social Ethics. (3-0-3); I, II, III.** An introductory survey of moral theories and their application to such contemporary moral issues as abortion, euthanasia, capital punishment, affirmative action, poverty and hunger, sexual morality, marriage, lying, cheating, lifestyle and personality, business practices, and so on. *This course satisfies the area studies-humanities for general education.*

**PHIL 300. Philosophy of Science. (3-0-3).** An examination of basic issues in the philosophy of science, such as scientific progress and cumulativeness, the nature of scientific explanation, the nature of scientific evidence, scientific realism, the relation between theory and observation, and the relation between science and value.

**PHIL 306. Introduction to Logic. (3-0-3). I, II, III.** An introduction to the central questions in logic: What makes reasoning valid or invalid? How can we test reasoning in order to decide whether or not it is strong? What are the main kinds of reasoning and mistakes in reasoning? *This course satisfies the area studies-humanities for general education.*

**PHIL 307. Philosophy of Religion. (3-0-3).** Basic issues in philosophy of religion. For example: Are there good arguments for or against the existence of the God worshipped by traditional theists (Judaism, Christianity, Islam)? Why is there evil? What is the relationship between faith, revelation, and evidence? Do people survive death?

**PHIL 308. Philosophy of the Arts. (3-0-3).** Major theories of art, aesthetic experience, the structure of art, problems in aesthetics, and art criticism.

**PHIL 312. Symbolic Logic. (3-0-3).** An introduction to symbolic logic: How can we use symbols to represent claims and test arguments? What are the philosophical implications of contemporary developments in symbolic logic?

**PHIL 313. American Philosophy. (3-0-3).** Examination of the writings of leading representatives of American philosophy with special emphasis on the writings of the "classical" period.

**PHIL 320. Eastern Philosophy. (3-0-3).** An examination of the major philosophical theories of Hinduism, Buddhism, Confucianism, and Taoism.

**PHIL 333. Environmental Ethics. (3-0-3). Prerequisite: At least sophomore standing.** An introduction to environmental ethics. Consideration to ethical theories and values as they apply to the natural environment. Emphasis on ethical aspects of such practical issues as preserving wilderness areas and wetlands, species extinction, population dynamics, forestry and mining policies, waste disposal, recycling, animal rights and liberation, domestic uses of animals and pets, sustainable agriculture, pesticide and herbicide usage, the status of embryos, genetics, biotechnology, animals as food, animal experimentation, economics, and the impact of environmental policies on diverse cultures and developing nations.

**PHIL 389. Honors Seminar in Philosophy. (3-0-3). Prerequisite: Membership in the Honors Program.** Contemporary moral issues are examined, discussed, and evaluated. The topics may vary from semester to semester.

**PHIL 399. Special Courses. (1-3 hrs.). Prerequisites: Variable.** These courses are usually specialized offerings in philosophy for the advanced undergraduate student. The purpose of these courses is to enhance the existing program in philosophy.

**PHIL 403. Ethical Theory. (3-0-3). Prerequisite: At least one course in philosophy or consent of instructor.** Study and analysis of selected issues and readings in moral philosophy. May include normative ethics, metaethics, moral epistemology, and/or value theory.

**PHIL 405. Ancient and Medieval Philosophy. (3-0-3).** The history of Western philosophy from its ancient origins through the medieval period and the beginning of the Renaissance.

**PHIL 406. Modern and Contemporary Philosophy. (3-0-3).** A history of Western philosophy from Renaissance to the present.

**PHIL 410. Current Philosophy. (3-0-3).** An examination, interpretation, and evaluation of the ideas of leading representatives of twentieth-century philosophies.

**PHIL 420. Metaphysics. (3-0-3). Prerequisite: At least one course in philosophy or consent of instructor.** An examination of the ultimate nature of reality, including (for example) the

nature of time, space, and causation, the nature of identity and substance, the relation between particulars and universals, and the nature of mind and freedom.

**PHIL 430. Epistemology. (3-0-3). Prerequisite: At least one course in philosophy or consent of instructor.** An introduction to the central issues in epistemology: What is knowledge? When are beliefs rational, warranted, or justified? Do we know anything? How?

**PHIL 476. Special Problems. (1 to 3 hrs.). Prerequisite: 12 hours in philosophy or consent of the department.** The student selects an approved topic in philosophy on which to do a directed study.

**PHIL 499C. Senior Seminar in Philosophy. (3-0-3); I. Prerequisites: Senior standing and either fifteen hours in philosophy or consent of the philosophy faculty.** Examination, in a seminar setting, of issues and opportunities for philosophy majors. *This course satisfies the integrative component for general education.*

## Physics

**PHYS 110. (Formerly SCI 200) Concepts in Astronomy. (3-0-3); I, II.** An introduction to the study of astronomical phenomena: motions of the sky, planetary science, the sun as a star, solar astrophysics, stars and stellar evolution, and cosmology-the structure and evolution of the universe. *This course satisfies the area studies-natural and mathematical sciences for general education.*

**PHYS 199. Selected Topics. (1 to 6 hrs.); on demand.**

**PHYS 201. Elementary Physics I. (3-0-3); I, II, III. Prerequisite: One of the following: MATH 141, MATH 174, MATH 175, CHEM 111, ACT MATH Subscore 22 or above.** Kinematics, laws of motion, work and energy, impulse and momentum. Gravitation, rotation and equilibrium. Elasticity, fluids and simple harmonic motion. Heat, heat transfer, thermodynamics, waves and sound. *This course satisfies the area studies-natural and mathematical sciences for general education.*

**PHYS 201A. Elementary Physics I Laboratory. (0-2-1); I, II, III. Must take concurrently with PHYS 201.** Laboratory for PHYS 201.

**PHYS 202. Elementary Physics II. (3-0-3); I, II, III. Prerequisite: PHYS 201 or EET 141.** Electricity and magnetism, light and optics, atomic and nuclear physics.

**PHYS 202A. Elementary Physics II Laboratory. (0-2-1); I, II, III. Must take concurrently with PHYS 202.** Laboratory for PHYS 202.

**PHYS 211. Circuits. (3-2-4); on demand. Prerequisite: MATH 275; Co-requisite: PHYS 232.** Linear circuits consisting of passive and active circuit elements; sinusoidal-forcing functions and phasors; steady-state response.

**PHYS 221. Statics. (3-0-3); II. Prerequisites: MATH 275 and PHYS 231.** Vector algebra, moments of force, equivalent force systems, equilibrium, trusses, frames, beams, friction, centroids, and moments of inertia.

**PHYS 231. Engineering Physics I. (4-0-4); I. Co-requisite: MATH 275.** Introduction to physics for scientists and engineers. Motion, statics, kinetics, and dynamics of linear and rotational motion. Work, energy, and power. Gravitational fields, waves and fluids. Thermal properties of matter and heat transfer. *This course satisfies the area studies-natural and mathematical sciences for general education.*

**PHYS 231A. Engineering Physics I Laboratory.** (0-2-1); I. *Must be taken concurrently with PHYS 231.* Laboratory for PHYS 231.

**PHYS 232. Engineering Physics II.** (4-0-4); II. *Prerequisite: PHYS 231.* Electromagnetism, optics, atomic and nuclear physics.

**PHYS 232A. Engineering Physics II Laboratory.** (0-2-1); II. *Must be taken concurrently with PHYS 232.* Laboratory for PHYS 232.

**PHYS 239. Cooperative Education.** (1-8 hrs.); I, II, III. Participation in supervised work experience in a professional environment. Department approval is required.

**PHYS 299. Selected Topics.** (1 to 6 hrs.); on demand.

**PHYS 320. The Science of Music.** (3-0-3); on demand. Properties of sound, the hearing process, musical scales, production of music by wind and stringed instruments, electronic recording and reproduction, and architectural acoustics.

**PHYS 324. Radio Astronomy.** (3-0-3). *Prerequisite: PHYS 110 or PHYS 201 or equivalent.* A study of astrophysically interesting phenomena utilizing the techniques of the science of radio astronomy; topics include galactic structure, radio galaxies, cosmic jets and black holes, interstellar molecules and instrumentation in radio astronomy, with a major emphasis in the methods of research in experimental astrophysics.

**PHYS 332. Electricity and Magnetism.** (4-0-4); II in alternate years. *Prerequisite: PHYS 232.* Classical electricity and magnetism, Maxwell's equations, Lorentz force equation; electrodynamics, electrostatics, and magnetostatics; circuit theory, electromagnetic waves, and radiating systems.

**PHYS 339. Cooperative Education** (1-8 hrs.); I, II, III. Participation in supervised work experience in a professional environment. Department approval is required.

**PHYS 340. Experimental Physics.** (1-4-3); in alternate years. *Prerequisite: PHYS 232.* Selected experiments from classical and modern physics. Computer analysis and simulation.

**PHYS 350. Nuclear Science.** (3-2-4); II. *Prerequisite: PHYS 202 or 232.* Interdisciplinary course in nuclear science for students in pre-medicine, environmental studies, physics, chemistry, geology, pre-dentistry, and pre-veterinary medicine.

**PHYS 353. Concepts of Modern Physics.** (4-0-4); I. *Prerequisite: PHYS 232.* Special relativity, quantum mechanics, atomic and molecular structure, solid state and nuclear physics.

**PHYS 361. Fundamentals of Electronics.** (2-2-3); I. *Prerequisite: PHYS 202-202A, 232-232A or EET 141.* A survey of electronics: components, basic circuits, transducers, op-amps, digital circuits, microprocessors, and interfacing.

**PHYS 381. Computer Solutions to Engineering and Science Problems.** (3-0-3); on demand. *Prerequisites: PHYS 232 and MATH 260.* Applications of computer programming to problems in engineering and physics. Problems will be selected from statics, dynamics, mechanics of materials, thermodynamics, and electricity and magnetism, with an extended problem selected from the student's major area of interest.

**PHYS 391. Dynamics.** (3-0-3); on demand. *Prerequisite: PHYS 221 or 231.* A study of motion of bodies. Kinematics and dynamics of particles and rigid bodies; work and energy; impulse and momentum.

**PHYS 399. Selected Topics.** (1 to 6 hrs.); on demand.

**PHYS 410. Solid State Physics.** (3-0-3); on demand. *Prerequisite: PHYS 353.* Lattice dynamics, electrons in metals, semi-conductors, and dielectric and magnetic properties of solids.

**PHYS 411. Thermodynamics.** (3-0-3); II. *Prerequisite: PHYS 231.* First and second laws of thermodynamics, power and refrigeration cycles, statistical thermodynamics, relations among properties, and equations of state.

**PHYS 412. Light and Physical Optics.** (3-0-3); on demand. *Prerequisite: PHYS 232.* Dualistic nature of light; interference, refraction, reflection, diffraction, polarization, laser action, and spectra.

**PHYS 439. Cooperative Education** (1-8 hrs.); I, II, III. Participation in supervised work experience in a professional environment. Departmental approval is required.

**PHYS 452. Nuclear Physics.** (3-0-3); on demand. *Prerequisite: PHYS 232.* Binding energies, nuclear forces, transmutation of nuclei; natural and artificial radioactivity.

**PHYS 476. Special Problems.** (1 to 6 hrs.); I, II, III. *Prerequisite: Consent of instructor.* Topic to be approved prior to registration.

**PHYS 481. Mathematics for Engineers and Scientists.** (3-0-3); on demand. *Prerequisite: MATH 276.* Fourier series, ordinary and partial differential equations, special functions, and integral transforms. (See MATH 481.)

**PHYS 493. Quantum Mechanics.** (3-0-3); on demand. *Prerequisite: PHYS 353 or consent of instructor.* The wave function; Hermitian operators and angular momentum; Schrodinger's equation, barriers, wells, harmonic oscillators, and the hydrogen atom.

**PHYS 499. Selected Topics.** (1 to 6 hrs.); on demand.

## Psychology

**PSY 154. Introduction to Psychology.** (3-0-3); I, II, III. Course concerning application of psychological theories and principles in area of personality, abnormal psychology, clinical psychology, psychodiagnostics, developmental psychology, psychotherapy and counseling; includes some understanding of methods used in personality and clinical research. *This course satisfies the area studies-social and behavioral sciences for general education.*

**PSY 156. Life-span Developmental Psychology.** (3-0-3); I, II, III. *Prerequisite: PSY 154.* Covers developmental theories, principles, and characteristics of individuals across the major developmental periods: prenatal, infancy and childhood, adolescence, and adulthood. *This course satisfies the area studies-social and behavioral sciences for general education.*

**PSY 157. Psychology of Adjustment.** (3-0-3); I, II. *Prerequisite: PSY 154 or consent of instructor.* Overview of processes and adaptation and personal adjustment in family, group, and work settings. Personality theories of Erikson, White, and others applied to process of developing for the individual a sense of competence and means of resolution of crises during life cycle.

**PSY 199. Workshop** (1 to 3 hrs.); I, II, III. Workshop for specifically designated task orientation in psychology. May be repeated in additional subject areas. Maximum of 6 sem. hrs. may be earned under this course number.

**PSY 276. Independent Study.** (1 to 3 hrs.); I, II, III. Professional problem in psychology.

**PSY 353. Industrial Psychology.** (3-0-3); II. *Prerequisite: PSY 154.* Applied experimental and engineering psychology. Surveys of basic engineering data with emphasis on experimental procedure, receptive and motor capacities, and their application to equipment design and other problems.

**PSY 354. Introduction to Social Psychology.** (3-0-3); I, II, III. *Prerequisite:* PSY 154. Scientific study of individual's relationship with social environment. Emphasis on attitudes, personality, prejudice, discrimination, dominance, role theory, social learning, social and interpersonal perception, and social movement.

**PSY 356. Cognitive Development of the Infant and Child.** (3-0-3); I, II. *Prerequisite:* PSY 154. Extensive examination of the cognitive and social cognitive development of the infant and child. Both the major theories of cognitive developmental psychology and the developmental processes of perception, memory, problem solving and other cognitive skills will be examined.

**PSY 358. Psychological Testing.** (3-0-3); II. *Prerequisite:* PSY 154. General introduction to psychological testing. Topics include interest inventories, measurement and evaluation of personality, measurement of proficiency, performance, attitudes, temperament, aptitude, capacity, and intelligence through use of group assessment instruments used in psychological research, guidance, education, social research, business, and industry.

**PSY 359. Behavior Modification.** (2-2-3); II, III. *Prerequisite:* PSY 154. Operant learning principles that govern human behavior applied to modification of behavior in clinical setting. Course is designed to give experience in dealing with behavioral problems in classroom and clinical settings. (Laboratory experiences are an integral part of course).

**PSY 381. Experimental Psychology I.** (2-2-3); I, II. *Prerequisites:* PSY 154, MATH 353 or MATH 354. Study of experimental methods and design related to sensation, perception, discrimination, learning, forgetting, and retention. (Laboratory experiences are an integral part of course.)

**PSY 389. Honors Seminar in Psychology.** (3-0-3). Study and discussion of current topics, issues, and problems in a particular area of the overall discipline. Topics will vary from semester to semester.

**PSY 390. Psychology of Personality.** (3-0-3); I, II. *Prerequisite:* PSY 154. Introduction to major approaches, methods, and findings in field of personality, including overview of basic theories, strategies, issues, and conclusions; attention to assessment and personality change.

**PSY 399. Workshop.** (1 to 3 hrs.); I, II, III. Workshop for specifically designated task orientation in psychology. May be repeated in additional subject areas. Maximum of six semester hours may be earned under this course number.

**PSY 421. Physiological Psychology.** (3-0-3); I, II. *Prerequisite:* PSY 154. Physiological mechanisms of normal human and animal behavior. Anatomy and physiology relevant to student of sensory and motor functions, emotion, motivation, and learning.

**PSY 422. Comparative Psychology.** (3-0-3); II. *Prerequisite:* PSY 154. Theory and application of field and laboratory techniques used in understanding behavior of animals. Areas include: instinct, learning, motivation, sensory discrimination, heredity, and perception.

**PSY 456. Introduction to Clinical Psychology.** (3-0-3); I. *Prerequisite:* PSY 154. Survey of basic theoretical issues and research in areas of assessments and psychotherapy. Consideration of ethical, legal, and other professional problems in clinical psychology. Emphasis on clinical aspects of school psychologist's functions in working with school age children.

**PSY 465. Introduction to Psychopharmacology.** (3-0-3); I, III. *Prerequisites:* PSY 154 and 421. An introduction to the biological and psychological principles involved in the study of

psychoactive drugs. Includes discussion of drug action, drug classification, and theories of chemical dependency.

**PSY 469. Counseling Psychology.** (3-0-3); II. *Prerequisite:* PSY 154. A survey and study of the major approaches and orientations to therapeutic intervention in mental health services. Will include coverage of supportive/crisis intervention, insight/relationship oriented therapies, and group and family therapies. Students will receive exposure to theoretical literature and practical application of the various interventions.

**PSY 470. Research Problems.** (1 to 3 hrs.); I, II, III. Independent research study of professional problem. Conferences with instructor by arrangement.

**PSY 471. Addiction Therapies.** (3-0-3); II, III. *Prerequisites:* PSY 154, 421, and 465. An introduction to the treatment of psychoactive substance use disorders and psychoactive substance-induced organic mental disorders. Includes discussion of the phases, stages, and progression of these disorders, treatment options and methods/process, maintenance procedures, and treatment outcome research findings.

**PSY 472. Practicum.** (3 to 6 hrs.); I, II, III. *Approval of instructor required.* Practical learning experiences in school, clinical, or organizational settings under qualified supervision by a licensed/certified psychologist. Minimum of 160 hours over a minimum of 8 weeks required for each 3 hours of credit.

**PSY 499C. Systems and Theories.** (3-0-3); I. *Prerequisites:* PSY 154 and MATH 353 or MATH 354 and senior standing. Intensive study of most influential historical systems of psychology including structuralism, functionalism, associationism, behaviorism, Gestalt psychology, and psychoanalysis, and a treatment of contemporary developments. *This course satisfies the integrative component for general education.*

**PSY 554. Seminar in Social Psychology.** (3-0-3); I, II. *Prerequisite:* PSY 154 or consent of instructor. Intensive examination of research methods and theory in modern social psychology.

**PSY 555. Environmental Psychology.** (3-0-3); II. *Prerequisite:* PSY 154. Study of ways in which social and physical environments affect human behavior. Direct effects of physical settings on behaviors, individual utilization of various physical settings, analysis of personal space utilization, and other non-verbal behaviors examined.

**PSY 575. Selected Topics.** (2-2-3 to 6 hours); I, II, III. *Prerequisite:* Consent of instructor. Various methods courses in instrumentation and data reduction, innovation and research design, directed study of special problems in psychology, various application courses and others.

**PSY 576. Seminar in Developmental Research.** (3-0-3); I. *Prerequisite:* PSY 156 or permission of instructor. Intensive examination of research and contemporary developmental psychology. Emphasis on reading and evaluating current journal articles and designing research projects.

**PSY 582. Experimental Psychology II.** (2-2-3); II. *Prerequisite:* PSY 381 or consent of instructor. A seminar course in experimental psychology emphasizing content areas of learning, motivation, perception, and physiological psychology. Course is designed to give student practice in critical thinking, evaluation of experimental design, and original research, and affords student an opportunity to present and debate his or her own ideas. (Laboratory experiences are an integral part of course.)

**PSY 583. Sensory Psychology.** (3-0-3); I. *Prerequisites:* **PSY 154 and MATH 353 or MATH 354.** Biological and physical bases of sensory experience. Presentation of psychophysical data and basic techniques for scaling of sensation. Coverage of all sensory systems with primary emphasis on vision and audition.

**PSY 584. Perception.** (2-2-3); III. *Prerequisite:* **PSY 154.** Examination of role of perception as an information extraction process. Includes constancies, space perception, illusions, and influence of learning and experience on development of perception. (Laboratory experiences are an integral part of course.)

**PSY 586. Motivation.** (2-2-3); II. *Prerequisite:* **PSY 154.** Consideration of bases of human and animal motivation in relation to other psychological processes. (Laboratory experiences are an integral part of course.)

**PSY 589. Psychology of Learning.** (3-0-3); I, III. *Prerequisite:* **PSY 154.** Fundamental principles of learning, including acquisition, retention, forgetting, problem solving, and symbol formation; experimental studies; application of principles to practical problems in habit formation, development skills, remembering, and logical thinking.

**PSY 590. Abnormal Psychology.** (3-0-3); I, II, III. *Prerequisite:* **PSY 154.** Psychology, behavior, and treatment of individuals with emotional, perceptual handicaps, and behavioral disorders; general methods used in therapy, and research in this area.

**PSY 599. Workshop.** (1 to 3 hrs.); I, II, III. Workshop for specifically designated task orientation in psychology. May be repeated in additional subject areas. Maximum of six semester hours may be taken.

## Radiologic Technology

**RAD 106. Patient Care Procedures.** (1-2-2); I. *Co-requisite:* **RAD 110, RAD 124, MATH 135 and BIOL 231.** Emphasis of the course is placed on the role and function of the radiologic technologist in relation to the care of patients at various stages of the life span and interpersonal relationship skills. Patient care includes such procedures and techniques as the performance of radiology admission procedures, isolation procedures, medical and surgical asepsis, and preparation and assisting in the administration of contrast media. Emphasis is also placed on the care of handicapped patients.

**RAD 110. Radiographic Anatomy and Positioning I.** (3-2-4); I. *Corequisites:* **RAD 106, RAD 124, MATH 135, and BIOL 231.** An introduction to radiographic anatomy and positioning which includes basic terminology related to the anatomical structures and systems of the human body and an explanation of radiologic positioning nomenclature. Emphasis is also placed on the radiologic technologist's role and function in the performance of chest, abdominal, upper extremity and shoulder girdle radiography for patients at any stage of lifespan. In addition, fluoroscopic procedures associated with the gastrointestinal tract and heart are discussed. Radiographic procedures are demonstrated and simulated in the Rad. Tech. campus lab.

**RAD 124. Imaging, Exposure, and Radiologic Technology Practice I.** (3-2-4). *Co-requisites:* **RAD 106, RAD 110, MATH 135 and BIOL 231.** An introduction to the field of radiologic technology (Rad Tech) including the program's organizing framework, learning process and radiation physics. The emphasis is on the role and function of the radiographer associated with radiographic imaging and processing equipment,

radiation exposure, radiation protection and mathematical formulas used in radiologic technology practice.

**RAD 130. Clinical Internship I.** (0-40-10); II. *Prerequisites:* **Successful completion of the fall semester of the first year of the Rad Tech program. Co-requisite:** **RAD 132.** Clinical experience in an affiliated health agency's radiology services division, specifically designed to introduce the student to the radiologic technologist's role and function in the practice of radiologic technology. Emphasis is on obtaining experience in manipulation of radiologic equipment; performance of radiologic patient care procedures; and radiologic examination procedures; preparation of contrast media for administration; critique of radiographs; adherence to radiation protection techniques; application of interpersonal skills; and adherence to legal and ethical principles of radiologic technology practice. The radiologic examination procedures may include chest, abdominal, digestive system, and urinary system radiography. If experience is available, students are rotated through special radiologic areas and other imaging modalities.

**RAD 132. Concepts in Radiologic Technology.** (Directed Study). (2-0-2); II. *Prerequisites:* **Successful completion of the fall semester of the first year of the Rad Tech program. Co-requisites:** **RAD 130.** This course is a conceptual approach to the history of radiologic technology, health agency structure, professional organizations, accrediting organizations, credentialing, ethics, legal issues, basic economics of radiology, specialization areas and professional development. Emphasis is on the role and function and scope of practice of the radiologic technologist.

**RAD 210. Radiographic Anatomy and Positioning II.** (2-2-3); III. *Prerequisites:* **Successful completion of the fall and spring semesters in the first year of the Rad Tech program.** A continuation of radiographic anatomy and positioning concepts and procedures presented in RAD 110. Emphasis is on the radiologic technologist's role and function in performance of radiography of the upper and lower extremities, shoulder girdle, bony thorax, hips, pelvic region and the basic examinations of the spine and skull for patients at any stage of the life span. Radiographic procedures are demonstrated and simulated in the Rad Tech campus lab.

**RAD 215. Radiation Biology and Protection.** (3-0-3), II. *Prerequisites:* **Successful completion of the first year and the fall semester of the second year of the Rad Tech Program. Co-requisites:** **RAD 305, RAD 311, RAD 315, and RAD 322** Study of the effects of radiation on the cells, tissues, organs, and the entire human body at all stages of the lifespan. Emphasis is also on radiation protection procedures and methods of monitoring radiation exposure. The role and function of the technologist is discussed in regards to legal responsibility for radiation protection of the patients, other health care personnel, and the public.

**RAD 230. Clinical Internship II.** (0-40-10); I. *Prerequisites:* **Successful completion of the first year RAD courses, NAHS 202, and BIOL 231. Co-requisites:** **RAD 232.** Clinical experience in an affiliated health agency's radiology services division, designed to continue to build on clinical experiences obtained in RAD 130. Emphasis of the clinical experience is on the role and function of the radiologic technologist in performance of radiographic procedures of upper and lower extremities, shoulder girdle, bony thorax, and pelvic region. Also, the application of principles and methods of radiation protection for patients, personnel, and public and radiographic

quality. If experience is available students are rotated through special radiologic areas and other imaging modalities.

**RAD 232. Imaging Sectional Anatomy. (Directed Study). (1-2-2); I. Prerequisites:** *Successful completion of the first year of the Rad Tech program.* An introduction to sectional anatomy as imaged with such modalities as Computer Tomography, Magnetic Resonance Imaging and Ultrasound. The sectional anatomy covered will include such areas as the human head, chest, abdomen and pelvis.

**RAD 305. Advanced Diagnostic Imaging. (2-2-3); II. Prerequisites:** *Successful completion of the first year and fall semester of the second year of the Rad Tech program. Co-requisites: RAD 215, RAD 311, RAD 315, and RAD 322.* An advanced study and practice of radiographic film processing and radiographic image formation. Emphasis is on the radiographer's role and function in relationship to quality assurance testing, equipment maintenance, radiographic image evaluation and computer applications in radiology. Such as Fluoroscopic Imaging, Computed Tomography, Magnetic Resonance Imaging, Nuclear Medicine, Ultrasonography, Radiation Therapy, Digital Radiography, tomography and other types of radiologic imaging modalities are discussed.

**RAD 311. Radiographic Anatomy and Positioning III. (3-2-4). Prerequisite:** *Successful completion of the first year and fall semester in the second year of the Rad Tech Program's curriculum. Co-requisites: Rad 215, RAD 305, RAD 315, and RAD 322.* An advanced course in anatomy and positioning which includes contrast studies and some specialized procedures. Emphasis is on the role and function of the radiographer associated with radiographic positioning, advanced studies and forensic radiography.

**RAD 315. Radiation Physics and Electronics. (2-0-2); II. Prerequisites:** *Successful completion of the first year and fall semester in the second year of the Rad Tech program's curriculum. Co-requisites: RAD 215, RAD 305, RAD 311, and RAD 322.* The study of physics and electronics necessary for the operation of an x-ray machine. Emphasis is on units of measurement, general concepts of energy, basic principles of chemistry, electrostatics, magnetism, electrodynamics, electromagnetism, rectification, and also concepts associated with radiation production and its interaction with matter. In addition, the radiologic technologist's function and role are studied in relation to x-ray tube safety and tube life.

**RAD 322. Radiologic Pathology. (2-0-2); II. Prerequisites:** *Successful completion of the first year and fall semester in the second year of the Rad Tech program's curriculum. Co-requisites: RAD 215, RAD 305, RAD 311, and RAD 315.* A systems approach to the study of disease and pathology for the cardiovascular, genitourinary, digestive and accessory organs, respiratory, nervous, and musculoskeletal systems. This includes the etiology, signs and symptoms, and the primary methods of diagnoses. An emphasis is on radiographic visualization of pathological conditions.

**RAD 330. Clinical Internship III. (0-40-4); III. Prerequisites:** *Successful completion of the first year and fall and spring semesters of the second year of the Rad Tech program's curriculum.* Clinical experience in an affiliated health agency's radiology services division, designed to continue to build on clinical experiences obtained in RAD 130 and RAD 230. Emphasis of the clinical experiences is on the role and function of the radiologic technologist in performance of radiographic procedures of vertebral column, cranium, facial bones, paranasal sinuses, eye, and special radiologic procedures. Also,

application of concepts and principles of radiologic pathology, radiation physics, and electronics.

**RAD 340. Clinical Internship IV. (0-40-3); IV. Prerequisites:** *Successful completion of the first year; fall, spring semester, and first summer session of the second year of the Rad Tech program's curriculum. Co-requisite: RAD 341.* This course is a continuance of RAD 330. Clinical experience in an affiliated health agency's radiology services division designed to prepare the students to assume the role and function of a new entry level radiologic technologist.

**RAD 341. Seminar in Radiologic Technology. (1-0-1); IV. Prerequisites:** *Successful completion of the first year, fall and spring semesters, and the first summer session of the second year of the Rad Tech Program's curriculum. Co-requisite: RAD 340.* This course is designed to assess the students' knowledge and application of radiologic technology. Based on the assessment results, the faculty will provide review, guidance, and learning experiences to assist the student in meeting identified learning needs.

## Real Estate

**REAL 105. Principles of Real Estate. (3-0-3); I, II. A** general introduction to real estate as a business and profession. Acquaints the student with a wide range of subjects necessary to the practice of real estate, including license law, ethics, listing and purchase agreements, brokerage, deeds, financing, appraisal, mortgages, and property management.

**REAL 200. Real and Personal Property Auctions. (3-0-3); II. Prerequisite:** *REAL 105 or consent of instructor.* Introduction to the current theory and practice of the marketing of real estate and personal property through the auction process. State laws, regulations, and ethical standards and practices which govern the profession will be covered in detail.

**REAL 303. Real Estate Market Analysis. (3-0-3); on demand. Prerequisite:** *REAL 320 or consent of instructor.* Designed to develop skills in analysis of real estate markets and to implement the results of this analysis in real estate sales and marketing management. Students should become proficient in the use of quantitative tools and interpretation of data output in real estate fields.

**REAL 309. Real Estate Land Planning and Development. (3-0-3); on demand. Prerequisite:** *REAL 105 or consent of instructor.* A comprehensive course on the specialized field of land planning and development, emphasizing the field of home construction. Neighborhood analysis, house design, mechanical systems, and blueprint reading are stressed. Provides important background for developers, appraisers, brokers, and property managers.

**REAL 310. Real Estate Law. (3-0-3); I. Prerequisite:** *REAL 105 or consent of instructor.* Overview of real estate law, focusing on legal fundamentals including contracts, concepts of title, title examination and licensing law.

**REAL 320. Real Estate Marketing. (3-0-3); I. Prerequisite:** *REAL 105 or consent of instructor.* Designed to help real estate professionals with listing, prospecting, showing, negotiating, and closing. Furthermore, qualifying them, organizing, and promotional package design will be discussed. Marketing skill development is emphasized.

**REAL 325. Appraisal of Residential Property. (3-0-3); I. Prerequisite:** *REAL 105 or consent of instructor.* An introduction to the current theory and practice of real estate appraisal as

taught by the professional appraisal societies. Insight into the direction of appraisal and feasibility in the future.

**REAL 330. Real Estate Property Management. (3-0-3); on demand. Prerequisite: REAL 105 or consent of instructor.**

Introduction to basic organization, administrative operation, and management of residential and commercial projects of various sizes. The financial considerations, staffing, training, and evaluation of personnel, sales methods, and promotional techniques in property management.

**REAL 331. Real Estate Finance. (3-0-3); II. Prerequisite: REAL 105 or consent of instructor.** Introduction to the mechanisms of real estate finance, sources of funds, principles of mortgage risk analysis, governmental agency roles, and cash flows.

**REAL 335. Real Estate Investment. (3-0-3); on demand. Prerequisite: REAL 105 or consent of instructor.** Theory and practices of real estate investments and the wide range of topics in this area. Reasons for and against investing, homes and business properties, sale and lease-backs, and the real estate investor.

**REAL 339. Cooperative Education III. (1 to 8 hrs.); on demand.** Work experience with an in-depth exposure representative of the student's academic level and experience analogous to a junior level status. Not available for option credit.

**REAL 345. Appraisal of Income Property. (3-0-3); on demand. Prerequisite: REAL 325.** Introduction to current theory and practice of income property appraisal and appraisal techniques.

**REAL 365. Advanced Property Appraisal. (3-0-3); I. Prerequisite: REAL 325, REAL 345, or consent of instructor.** Introduction to writing a real property appraisal report that communicates each analysis, opinion, and conclusion in a manner that complies with the uniform standards of Professional Appraisal Practice. Introduction to computer applications in appraisal report writing.

**REAL 399. Selected Workshop Topics. (1 to 4 hrs.); on demand.** Workshops on various real estate topics will be presented periodically to supplement the basic course offerings in real estate. Credit toward degree programs must be approved by the student's advisor.

**REAL 400. Real Estate Brokerage. (3-0-3); on demand. Prerequisite: REAL 105 or consent of instructor.** An examination of the establishment and operation of a real estate broker's office; concentrating on the unique problems of staff recruitment and training, sales activities, marketing practices and policies, budget establishment, analysis and control, data handling, personnel policy, and professional ethics in such an agency.

**REAL 405. Uniform Standards of Professional Appraisal Practice and Appraisal Ethics. (1-0-1); .** Introduction to the ethics and competency provisions required for professional Appraisal Practice, including the Standards and Standard Rules of Real Property, Personal Property, and Business appraisal and reporting. Provides an introduction to the appraiser's responsibilities to his or her client, readers of the appraisal report and the general public.

**REAL 439. Cooperative Education IV. (1 to 8 hrs.); on demand.** Work experience with an in-depth exposure representative of the student's academic level and experience analogous to a senior level course. Not available for option credit.

**REAL 476. Special Problems in Real Estate. (1 to 3 hrs.); on demand. Prerequisites: Senior standing and prior consent of head of department.** Self-directed independent study on a

specific problem, based on written proposal and justification submitted by student prior to registration. Each request will be considered on its own merit in relation to the special needs, interest, and abilities of the student.

## Recreation

**REC 201. Outdoor Recreation. (3-0-3); I, II, III.** Scope and history of outdoor recreation. Development of camp craft skills.

**REC 285. Community Recreation. (2-0-2); I, II.** Emphasizes general aspects of community recreation, place of school and other social institutions in recreation.

**REC 286. Recreation Leadership. (2-0-2); I, II, III.** History, theory, and philosophy of recreation. Practical techniques of leadership for low organization activities.

**REC 288. Recreational Arts and Crafts. (1-2-2); I, II.** Methods and materials, techniques of producing all types of crafts suitable for playground, community centers, hospital, school, camp, and club programs.

**REC 290. Field Experience I. (1-1-1); I, II, III.** Designed to give students practical experience under guidance of qualified leadership. (Laboratory experiences are integral part of course.)

**REC 305. Social Recreation. (2-0-2); II.** Practical application of planning, demonstrating, and conducting activities and programs for various social events and gatherings.

**REC 310. Youth Organizations. (2-0-2); II.** History, principles, and purposes of major youth service organizations with emphasis on leadership techniques and programming.

**REC 375. Creative Dramatics. (3-0-3); II.** Analysis and application of principles of creative dramatics as applied to classroom teaching recreation activities. (Same as THEA 375.)

**REC 388. Community Centers and Playgrounds. (3-0-3); I, III.** Leadership techniques, programming, and operation related to planning and administration of community centers and playgrounds.

**REC 471. Seminar. (1-0-1); I, II.** Discussion and reporting of current issues and problems in recreation profession.

**REC 475. Therapeutic Recreation. (3-0-3); II, III.** Philosophy, objectives, and basic concepts of therapeutic recreation. Emphasis on rehabilitation needs within institutional and community settings.

**REC 477. Recreation Internship. (4 to 8 hrs.); III.** Planning, leadership, supervision, and program evaluation experience in community and recreation public agency program under qualified administrative leadership and University faculty supervision. (Laboratory experiences are integral part of course. Application made through Coordinator of Professional Laboratory Experiences.)

**REC 490. Field Experience II. (1-1-1); I, II, III.** Designed to give student practical experience under guidance of qualified leadership. (Laboratory experiences are integral part of course. Application made through Coordinator of Professional Laboratory Experiences.)

**REC 522. Park Management and Resource Operation. (3-0-3); I, III. Prerequisite: Senior standing.** Theory and current practices involved in effective management and operation of parks and recreation areas, with emphasis on management policies and procedures for efficient operation. Practical work with local, state, and federal park systems and personnel to apply theoretical knowledge in a practical situation.

**REC 526. Fiscal Management in Parks and Recreation. (3-0-3); II, III. Prerequisite: Senior standing.** Things peculiar to

recreation and park administration such as tax structures, budgets, budget preparation procedure, projecting financial aspects of recreation, and things necessary to handle properly the financial affairs in recreation and park field.

**REC 528. Camping Administration. (3-0-3); II.**

**Prerequisite:** *Senior standing.* Successful administration and organization of the camp.

**REC 576. Special Problems in Recreation. (1 to 3 hrs.); I, II. Prerequisite:** *Upper division or graduate classification.*

Designed to meet special needs of individual students. Intensive study of approved specific problems from area of recreation under direction of instructor.

**REC 580. Outdoor Interpretation. (2-2-3); I.** Procedures for conducting and supervising naturalist and outdoor interpretive programs.

**REC 585. Programs and Materials for Therapeutic Recreation. (0-2-3); II, III. Prerequisite:** *Senior standing.* In-depth study of programs and materials used in therapeutic recreation. Considers various devices, activities, and materials used in programs for individuals. Practical work with individuals in therapeutic situations is stressed.

**REC 588. Professional Development for Therapeutic Recreation. (3-0-3); I, II, III (alternate scheduling).**

Contemporary philosophy, principles and understandings in the delivery of therapeutic recreational service to special populations. (Required for N.C.T.R.C. Certification.)

**REC 599. Workshop. (1 to 3 hrs.); I, II, III.** Workshop for specifically designated task orientation in recreation. May be repeated in additional subject areas. Maximum of six semester hours may be earned under this course number.

## Religion

**NOTE:** Credit in philosophy is not given for any of the courses in religion.

**REL 221. World Religions I. (3-0-3). Prerequisite:** *PHIL 200 is recommended.* Origin, development, assumptions, values, beliefs, practices, great leaders, and principal events of Judaism, Christianity, Islam, and Zoroastrianism.

**REL 222. World Religions II. (3-0-3). Prerequisite:** *PHIL 200 is recommended.* Origin, development, assumptions, values, beliefs, practices, great leaders, and principal events of Hinduism, Buddhism, Confucianism, Taoism, Jainism, Sikhism, and Shintoism.

**REL 321. Early and Medieval Christian Thought. (3-0-3). Prerequisite:** *PHIL 200 is recommended.* Ideas concerning the nature of God, Jesus, the church, man, sin, salvation, the good life, and other issues presented by Jesus, Paul, John, and the early and medieval church fathers or leaders to the beginning of the Reformation.

**REL 322. Modern Christian Thought (1500 to 1900). (3-0-3). Prerequisites:** *REL 321 and/or PHIL 200 is recommended.* Ideas concerning the nature of God, Jesus, the church, man, sin, salvation, the good life, and other issues presented to theologians and religious leaders from the beginning of the Reformation to the twentieth century.

**REL 323. Twentieth-Century Christian Thought. (3-0-3). Prerequisite:** *REL 322 or PHIL 200 or consent of instructor.* Ideas concerning the nature of God, Jesus, the church, man, sin, salvation, the good life, and other ideas presented by major twentieth-century theologians such as Barth, Bultmann, Tillich, Niebuhr, Wieman, Hartshorne, A. T. Robertson, Karl Rahner, Karl Adam, Thomas Altizer, and Dietrich Bonhoeffer.

**REL 476. Special Problems. (1 to 3 hrs.). Prerequisite:** *12 hours in religious studies or consent of the Department of Philosophy.* The student selects an approved topic in religion on which to do a directed study.

## Robotics

**ROB 170. Fundamentals of Robotics. (3-0-3); I.** An introduction to the operations and applications of robots. Android and industrial robots; emphasis on the history, development, sociological implications, and future trends. A survey class appropriate for any college major.

**ROB 270. Robotics Systems Engineering. (2-2-3); I. Prerequisite:** *ROB 170.* Systems engineering for variable sequence, playback, numerical control, and intelligent industrial robots. Economic justification, application, safety, maintenance, and programming. Laboratory activities will include problem-solving assignments with robots.

**ROB 370. Robotics Interfacing Engineering. (2-2-3); II. Prerequisites:** *ROB 270 and EET 345.* Electronic, digital, and mechanical interfacing of robots in industrial manufacturing cells. Topics will include open and closed loop feedback control systems, various sensing devices, tactile sensing, vision systems, and voice synthesis.

**ROB 470. Robotics Applications Engineering. (0-6-3); I. Prerequisite:** *Consent of instructor.* Engineering design of a specific manufacturing problem and implementation in the laboratory. Emphasis on industrial engineering techniques, end-of-arm tooling, part orientation, and control devices for unmanned machine cells. An interdisciplinary approach will be used.

## Russian

**RUS 101. Beginning Russian I. (3-0-3).** An introduction to Russian grammar beginning with the learning of the Cyrillic alphabet and progressing through a brief introduction of conjugation of verb forms and declension of adjectives and nouns.

**RUS 102. Beginning Russian II. (3-0-3). Prerequisite:** *RUS 101 or one year of high school Russian.* A continuation of RUS 101. An analysis of Russian grammar with emphasis on writing and speaking.

**RUS 201. Intermediate Russian I. (3-0-3). Prerequisite:** *RUS 102.* A continuation of Russian grammar with emphasis on vocabulary building and language structure. Russian lecture and elementary translation exercises are introduced in this course.

**RUS 202. Intermediate Russian II. (3-0-3). Prerequisite:** *RUS 201.* A continuation of RUS 201 with additional emphasis on Russian literature, translation, conversation, and writing.

**RUS 301. Readings in Russian Literature. (3-0-3). Prerequisite:** *RUS 202.* Directed study in Russian literature. The short story, poetry, prose, and essays. Review of Russian grammar as necessary. Oral practice.

**RUS 302. Advanced Readings in Russian Literature. (3-0-3). Prerequisite:** *RUS 301.* Readings in Russian from Lermontov, Turgenev, Tolstoy, Gogol, Dostoyevski, and others. Assigned readings on Russian culture and history. Review of Russian grammar as necessary.

## Science

**SCI 103. Introduction to Physical Sciences. (3-0-3); I, II, III.** An interdisciplinary approach to the study of the physical sciences. Incorporates measurement, energy, states of matter,

and the nature and process of science as they relate to the disciplines of physics, chemistry, astronomy, and the earth sciences. *This course satisfies the area studies-natural and mathematical sciences for general education.*

**SCI 104. Modern Issues and Problems in the Physical Sciences. (3-0-3); I, II, III.** An interdisciplinary approach to study of the physical sciences. Emphasizes decision-making based on the interpretation of data and scientific arguments. Incorporates the study of scientific principles and concepts needed to understand current issues and problems related to modern science. *This course satisfies the area studies-natural and mathematical sciences for general education.*

**SCI 109. Physical Science for the Elementary Teacher. (2-2-3); I, II.** An introduction to the study of physical science: measurement, force and motion, structure of matter, astronomy and earth science. Not acceptable for majors or minors in other physical sciences. *This course satisfies the area studies-natural and mathematical sciences for general education.*

**SCI 199. Selected Topics. (1 to 6 hrs.); on demand.**

**SCI 299. Selected Topics. (1 to 6 hrs.); on demand.**

**SCI 360. Science of Aviation. (3-0-3); II.** A study of airplane systems, meteorology, navigational procedures, the medical aspects pertinent to flying, and the development of aviation. With the completion of the course, the student should be able to perform successfully on the FFA examination, one of the requirements for the private pilot's license.

**SCI 476. Special Problems. (1 to 6 hrs.); I, II, III.**  
*Prerequisite: Consent of instructor.* Topic to be approved prior to registration. Credit available in the sciences and mathematics.

**SCI 490. Science for the Elementary Teacher. (2-2-3); I, II, III.** *Prerequisite: Completion of the minimum general education requirements in sciences and mathematics and acceptance to the teacher education program.* This course focuses on the development of competencies in materials and methods for teaching science to elementary children. Emphasis is placed on writing curriculum, learning the elementary science theory base, questioning strategies, best practices, science process skills, cooperative learning, technology, and assessment. (Clinical and field experiences are an integral part of this course.)

**SCI 498. Senior Thesis I. (0-4-2); I, II.** *Prerequisites: Senior standing or junior standing and permission of instructor.* A directed research project will be designed, data will be collected and analyzed, in consultation with a faculty advisor. A primary literature search and research proposal will be completed using library facilities and current technology. This research project will culminate with a scientific paper and oral presentation in SCI 499C. *This course, combined with SCI 499C, satisfies the integrative component for general education.*

**SCI 499C. Senior Thesis II. (0-2-1); I, II.** *Prerequisite: SCI 498.* Completion of the directed research project begun in SCI 498. A formal report that includes the basic literature search and appropriate experimental work will be prepared in a form suitable for submission to a scientific journal. A scientific oral presentation of the research will be made to the faculty. In addition, an oral presentation at a state, regional, or national scientific meeting will be encouraged. *This course, combined with SCI 498, satisfies the integrative component for general education.*

**SCI 521. Chemistry in the Modern World. (3-0-3); on demand.** A survey of the modern chemical industry with emphasis on industrial processes and the uses of the commodities

produced as finished products. the relation of the chemical industry to society will be sketched.

**SCI 570. Earth Science. (3-0-3); on demand.** Selected topics from the geological sciences. (Especially designed for in-service and pre-service teachers.)

**SCI 580. History of Science. (3-0-3); on demand.** An interdisciplinary approach to the development of the scientific traditions, discoveries, and concepts from the time of ancient Egypt to the present. See BIOL 580.

**SCI 591. Science for the Middle School Teacher. (2-2-3); I.** *Prerequisite: Admission to Teacher Education Program.* Pedagogy, science content, and techniques applicable to the teaching of science to middle school and junior high children.

**SCI 592. Science for the Secondary Teacher. (2-2-3); II.** *Prerequisite: Admission to Teacher Education Program.* Concepts of teaching high school science with emphasis on laboratory techniques, test preparation, questioning, presentation methods, and care of equipment.

**SCI 599. Selected Topics. (1 to 6 hrs.); on demand.**

## Sociology

**SOC 101. General Sociology. (3-0-3); I, II, III.** The nature and dynamics of human society. Basic concepts include: culture, groups, personality, social institutions, social processes, and major social forces. *This course satisfies the area studies-social and behavioral sciences for general education.*

**SOC 170. Rural Sociology. (3-0-3); I.** The cultural and social organizations of rural and urban societies with emphasis on the impact of economic changes and population movements.

**SOC 201. Sociology of Criminology. (3-0-3); I, II.** (See CRIM 201.)

**SOC 203. Contemporary Social Problems. (3-0-3); I, II, III.** A systematic and objective interpretation of contemporary social problems such as crime, delinquency, poverty, race relations, and family problems, with emphasis on societal conditions under which deviance emerges and the alleviation of such deviant behavior. *This course satisfies the area studies-social and behavioral sciences for general education.*

**SOC 205. The Family. (3-0-3); I.** The family in cross-cultural and historical perspective; as a social institution; the impact of economic and social conditions on family values, structure, functions, and roles.

**SOC 210. The Sociology of Deviance. (3-0-3); I.** *Prerequisite: SOC 101 or consent of instructor.* Designed to introduce the student to the sociological perspective with respect to the definition, causes, and social consequences of deviance.

**SOC 302. Population Dynamics. (3-0-3); II.** *Prerequisites: Three hours sociology general education or consent of instructor.* The U. S. population; social and economic characteristics; migration, mortality, and fertility trends; influence of social factors on population processes; basic techniques of population analysis; survey of population theories; data on international migration.

**SOC 304. Social Change. (3-0-3); on demand.** *Prerequisites: Three hours sociology general education or consent of instructor.* Change theories from early to contemporary scholars. Antecedents and effects of change; function, structure, and ramifications of change; normality of change in modernization; social evolution contrasted with social revolution.

**SOC 305. Cultural Anthropology. (3-0-3); I, II.** A study of literate and nonliterate cultures using the ethnographic approach. Universal aspects of human experience, including the family,

economic, political and religious systems examined in cross-cultural perspective. *This course satisfies the area studies-social and behavioral sciences for general education.*

**SOC 306. Juvenile Delinquency. (3-0-3); I, II.**

*Prerequisites: Three hours sociology general education or consent of instructor.* The extent, ecological distribution, and theories of delinquency in contemporary American society, including a critical examination of trends and methods of treatment of delinquency.

**SOC 312. Sociology of Sports. (3-0-3); on demand.**

*Prerequisites: Three hours sociology general education or consent of instructor.* The role of sports and games in the shaping and maintaining of values in the American culture. An examination of sport as expressed in aggression displacement, human welfare, patriotism, religion, group cohesion, sex, competition, and leisure.

**SOC 323. Urban Sociology. (3-0-3); on demand. Prerequisites: Three hours sociology general education or consent of instructor.** The rise of modern cities; theoretical explanations of urbanization; and the analysis of modern urban problems.

**SOC 330. Applied Medical Sociology. (3-0-3); II. Prerequisites: Three hours sociology general education or consent of instructor.** An examination of social, cultural, and psychological factors which influence health behaviors; an overview of health care delivery systems and policies; and an analysis of the role of social workers and other health professionals.

**SOC 350. The Human Experience of Sex and Gender. (3-0-3); I, II. Prerequisites: Three hours sociology general education or consent of instructor.** Focus of course will be on meanings attached to sex and gender, theoretical explanations of those meanings, the institutions which influence perceptions and behaviors, and the impact of social definitions and practices on individuals, male and female.

**SOC 354. The Individual and Society. (3-0-3); I, II, III.** The influence of group processes on individual behavior. Topics covered include personality formation and change; small group behavior and leadership patterns. *This course satisfies the area studies-social and behavioral sciences for general education.*

**SOC 373. Introduction to Women's Studies. (3-0-3); I, II.**

*Prerequisites: Completion of the (9 hour) general education requirement in English and literature or consent of instructor.* A survey course designed to develop students' awareness of women's literature, poetry, contributions to science, and history, as well as an introduction to feminist theory. Women scholars of all nations and races will be highlighted.

**SOC 374. American Minority Relations. (3-0-3); I, III.**

*Prerequisites: Three hours sociology general education or consent of instructor.* Examines various processes of social and cultural contact between peoples; theories dealing with the sources of prejudice and discrimination; basic processes of intergroup relations; the reactions of minorities to their disadvantaged status; and means by which prejudice and discrimination may be combated.

**SOC 376. Industrial Sociology. (3-0-3); on demand.**

Modern industrialization as social behavior. Social conditions in the rise of industrialism and effects on the worker; collective bargaining and industrial conflict; the industrial community, social classes, and the industrial order.

**SOC 399. Selected Topics. (1 to 3 hrs.); on demand.**

*Prerequisites: Three hours sociology general education or consent of instructor.* Unique topics and learning experiences that supplement regular course offering. May be repeated in additional subject areas.

**SOC 401. Criminology. (3-0-3); on demand. Prerequisites: SOC/CRIM 210 and three additional hours of CRIM; or consent of instructor.** Cause, treatment, and prevention of crime.

**SOC 405. Sociological Theory. (3-0-3); I, II, III.**

*Prerequisites: Three hours sociology general education or consent of instructor.* An introduction to basic theoretical approaches to the study of society and a survey of contributions to the field by major theorists.

**SOC 420. Seminar in Criminal Behavior. (3-0-3); II.**

*Prerequisites: SOC/CRIM 401 or consent of instructor.* (See CRIM 420).

**SOC 439. Cooperative Education. (1 to 8 hrs.); I, II, III.**

Participation in supervised work experience in a professional environment. Department approval is required.

**SOC 450. Research Methodology. (3-0-3); I, II, III.**

*Prerequisites: Three hours sociology general education and six additional hours of SOC/CRIM; or consent of instructor.* Fundamental assumptions underlying sociological research; some practical experience in research design, data collection, techniques, and data analysis.

**SOC 451. Social Science Data Analysis. (3-0-3); I, II.**

*Prerequisites: SOC/CRIM 450 or consent of instructor.* This course deals with the logic of data preparation and computer assisted analysis. Appropriate methods of evaluating and applying standard social science data analysis techniques are discussed and experience in utilizing these methods is provided. In addition, the course covers the basic skills required to evaluate and write research reports.

**SOC 460. Senior Seminar. (3-0-3); II.** This course is required for all sociology majors (not required for those majoring in sociology with an emphasis in Criminology.)

**SOC 476. Special Problems. (1 to 3 hrs.); I, II, III.**

*Prerequisite: Three hours sociology general education and nine additional hours of SOC/CRIM; or consent of instructor.* Arranged with the department to study some particular aspect of the field of sociology.

**SOC 499C. Senior Seminar. (3-0-3); I. Prerequisite: Senior standing and majoring in sociology.** Capstone course which synthesizes various themes in sociology, examines issues and debates in the field, and explores career possibilities. *This course satisfies the integrative component for general education.*

**SOC 515. Family Dynamics. (3-0-3); II.** An intensive analysis of the family in its social context. Emphases are placed upon social interaction within the family, socio-cultural and socio-economic factors which bear influence upon it, and the relationship of the family to the total social system.

**SOC 525. The Community. (3-0-3); I.** The general character of community relations in society, the structure and function of the community as a social system, the processes of balancing community needs and resources, and planned and unplanned social change.

**SOC 540. Gerontology. (3-0-3); II.** An analysis of aging designed to provide the student with a knowledge of the special factors involved in the aging process as well as the social work techniques designed to aid such individuals to cope with the changes inherent in the aging process.

**SOC 545. Death and Dying. (3-0-3); I.** The analysis of death and dying as social processes and problems; strategies for working with dying persons.

**SOC 560. Appalachian Culture. (3-0-3); I, II.** Study of the Appalachian culture in juxtaposition to concept of cultural dynamics. Analysis of the relationship between culture, society, and personality in Appalachia.

## Spanish

**SPA 101. Spanish Language and Culture I. (3-0-3); I, II.** Study of listening, speaking, reading, and writing basic Spanish with emphasis on the appreciation of the culture of Spain and other Hispanic cultures. *This course satisfies the area studies-humanities for general education.*

**SPA 102. Spanish Language and Culture II. (3-0-3); I, II.** *Prerequisite: SPA 101 or consent of the instructor.* Continued study of listening, speaking, reading, and writing basic Spanish with emphasis on the appreciation of the culture of Latin America and other Hispanic cultures. *This course satisfies the area studies-humanities for general education.*

**SPA 201. Intermediate Spanish I. (3-0-3). Prerequisite: SPA 102 or consent of the instructor.** Reading of moderately difficult Spanish texts; thorough review of minimum essentials of Spanish grammar; conversational practice.

**SPA 202. Intermediate Spanish II. (3-0-3). Prerequisite: SPA 201 or consent of the instructor.** A continuation of SPA 201. Reading of more difficult texts.

**SPA 300. Grammar and Composition. (3-0-3). Prerequisite: SPA 202 or consent of the instructor.** Review of difficult concepts of Spanish grammar. Study and analysis of writing styles. Emphasis on written composition.

**SPA 301. Survey of Peninsular Spanish Literature from 1700. (3-0-3). Prerequisite: SPA 300.** A survey of Spanish peninsular literature from 1700 to the present with readings from the most significant works in each literary period. Lectures, oral discussions, reports.

**SPA 302. Survey of Spanish American Literature from Colonial Times to 1880. (3-0-3). Prerequisite: SPA 300.** A survey of Spanish American literature from colonial times to 1880 with readings from the most significant works in each literary period. Lectures, oral discussions, reports.

**SPA 305. Conversation. (3-0-3). Prerequisite: SPA 202 or consent of the instructor.** Conversation on daily subjects of current interest pertaining to the Hispanic world; acquisition of new vocabulary through reading of current material and usage in oral work.

**SPA 320. Hispanic Culture and Civilization. (3-0-3). Prerequisite: SPA 202 or consent of instructor.** Study of the history, art, culture, and everyday life of the Hispanic world.

**SPA 399. Special Courses. (1 to 3 hrs.). Prerequisites: Variable.** These courses are usually specialized offerings in Spanish for undergraduate students. The purpose of these course is to enhance the existing Spanish program.

**SPA 401. Masterpieces of Spanish Literature. (3-0-3). Prerequisite: SPA 300.** Reading, analysis, and discussion of literary masterpieces in Spanish. Emphasis on the Middle Ages and the Golden Age.

**SPA 402. Masterpieces of Spanish American Literature. (3-0-3). Prerequisite: SPA 300.** Reading, analysis, and discussion of literary masterpieces in Spanish. Emphasis on modernism and contemporary literature.

**SPA 403. Spanish Stylistics. (3-0-3). Prerequisite: SPA 300.** Reading and analysis of different writing styles. Study of Spanish rhetorical devices. Translations and compositions in Spanish.

**SPA 405. Linguistics and Language Teaching. (3-0-3). Prerequisite: SPA 300. Admission to Teacher Education Program.** The application of linguistics to the methodology of teaching Spanish.

**SPA 432. Contemporary Spanish and Spanish American Literature. (3-0-3). Prerequisite: SPA 300.** A survey of significant characteristics of twentieth century Hispanic literature, including the novel, the short story, the drama, the essay, and poetry.

**SPA 440. Seminar in Hispanic Literature. (3-0-3). Prerequisite: SPA 300.** Group instruction and practice in research methods peculiar to Hispanic literature.

**SPA 476. Directed Studies. (1 to 3 sem. hrs.). Prerequisite: Consent of instructor and the department chair.** This course is a directed study for the undergraduate Spanish major. Each request for the course will be considered on its own merits in relation to the special needs of the student.

**SPA 499C. Senior Seminar in Spanish. (3-0-3); on demand. Prerequisites: Senior standing, fifteen hours of upper level Spanish courses, and/or consent of the Spanish faculty.** An integrative capstone course in Spanish. A review of key components of Spanish grammar, culture, literature and of issues related to proficiency in Spanish (speaking, listening, reading, and writing) and to career opportunities for Spanish majors. *This course satisfies the integrative component for general education.*

**SPA 576. Directed Studies. (1 to 3 sem. hrs.). Prerequisite: Consent of the instructor and the department chair.** This course is a directed study for the advanced undergraduate and the graduate student in Spanish. Each request for the course will be considered on its own merits in relation to the special needs of the student.

**SPA 599. Special Courses. (1 to 3 sem. hrs.). Prerequisites: Variable.** These courses are usually specialized offerings in Spanish for the advanced undergraduate and the graduate student. The purpose of these courses is to enhance the existing program in Spanish.

## Speech Communication

**SPCH 100. Voice and Articulation. (3-0-3); I, II.** Essentials of distinct utterance, phonetic transcription, and uses of the vocal mechanism.

**SPCH 108. Fundamentals of Speech Communication. (3-0-3); I, II, III.** Practice and study of speech communication fundamentals, including: interpersonal skills; critical listening; small group problem-solving; information-gathering; preparation and delivery of a variety of informal presentations. *This course satisfies the required core-oral communications for general education.*

**SPCH 200. Oral Interpretation. (3-0-3); I.** Communicating the meanings of prose, poetry, and dramatic literature through the use of body and voice.

**SPCH 210. Listening. (3-0-3); I, II.** The study and practice of skills in both retentive and empathic listening.

**SPCH 220. Introduction to Communication Theory. (3-0-3); II.** A survey of communication theory with emphasis on the interpersonal aspects.

**SPCH 300. Oral Communications. (3-0-3); I. Prerequisite: SPCH 108.** Development of appropriate classroom voice through study, exercise, practice in reading, describing, and motivating. Designed for elementary teaching majors.

**SPCH 301. Advanced Voice and Articulation. (3-0-3); I (on demand). Prerequisite: SPCH 100.** Advanced training in voice production. Students may be assessed a fee for material distributed in class.

**SPCH 305. Readers Theatre. (3-0-3); II (odd years).**

**Prerequisite:** *SPCH 200 or permission of the instructor.*

Applying the theories of oral interpretation to an audience-oriented production.

**SPCH 309. Public Speaking. (3-0-3); II.** Study and practice of speech preparation, composition, research, delivery, analysis, and criticism. Public-setting speeches will be given, including speeches to teach, persuade, and entertain, using various delivery styles including manuscript, impromptu, extemporaneous, and recitation.

**SPCH 310. Interpersonal Communication. (3-0-3); I, II.** Conceptual elements and dynamics of informal person-to-person communication.

**SPCH 318. Nonverbal Communication. (3-0-3); II (even years).** Components of nonverbal communication.

**SPCH 320. Introduction to Corrective Speech. (3-0-3); on demand.** Speech correction for the classroom teacher. Same as EDSP 320.

**SPCH 350. Communication, Culture, and Diversity. (3-0-3); I, II, III.** **Prerequisite:** *SPCH 108.* An examination of speech communication theory and skills useful under conditions of cultural diversity with a focus on the improvement of communication across cultural and group verbal and nonverbal language systems. *This course satisfies the area studies-humanities for general education.*

**SPCH 370. Business and Professional Speech. (3-0-3); I, II, III.** **Prerequisite:** *Sophomore standing or above (at least 30 semester hours of previously completed course work).* Study and practice in techniques of group problem solving, interviewing, and other forms of speech required in business and the professions.

**SPCH 382. Argumentation and Debate. (3-0-3); II (odd years).** Making rational decisions through the debate process. Analysis, evidence, briefing, and refutation.

**SPCH 383. Small Group Communication. (3-0-3); I, II.** Study and development of communication skills required for effective participation in small task-oriented groups. Students will learn about and practice participating, leading, managing meetings, dealing with conflict, solving problems, making decisions and assessing performance in the small group context. *This course satisfies the area studies-humanities for general education.*

**SPCH 385. Persuasion. (3-0-3); II (even years).** Nature and methods of persuasion for influencing group opinion and action. Recommended for business majors.

**SPCH 388. Speech Practicum. (1-2-2); I, II.** **Prerequisite:** *Approval of the instructor.* Independent guided study in specific areas of speech through participation in the Intercollegiate Individual Events program. May be repeated up to a maximum of 6 hours credit.

**SPCH 390. Conflict and Communication. (3-0-3); II.** Theory and practice concerning the treatment of interpersonal conflict. Conflict will be defined and examined from practical and philosophical perspectives. Students will study and demonstrate specific strategies for addressing conflicts typical to everyday life at home, at work, and in the communities. *This course satisfies the area studies-humanities for general education.*

**SPCH 400. Interviewing. (3-0-3); II.** A detailed study of the various interview types, coupled with role playing experiences. Includes media, employment, and health care interviews.

**SPCH 401. Capstone Senior Seminar in Speech. (2-0-2); II.** Students will be tested for conceptual and practical abilities in

speech communication and will be given a profile of current strengths and weaknesses. Resumes will be developed and evaluated.

**SPCH 495. Administering the Communications Program. (3-0-3); I (even years).** Development and Management of communication programs, including co-curricular activities. (Lab fees will be assessed for each student).

**SPCH 499C. Senior Seminar Speech. (3-0-3); II.** **Prerequisites:** *Completion of a minimum of 18 hours toward a major in speech, or permission of the Department Chair.* This course is designed for students majoring in speech. It will entail individualized and group instruction, assessment and career preparation focused on disciplinary competencies and general life skills with an emphasis on the integration of knowledge and skills acquired in the program. *This course satisfies the integrative component for general education.*

**SPCH 510. Advanced Public Speaking. (3-0-3); on demand.** The study, preparation, and delivery of complex speeches.

**SPCH 521. Classical Rhetorical Theory. (3-0-3); on demand.** Study of the rhetorical theories of Plato, Aristotle, Cicero, and other writers of the Greek and Roman periods.

**SPCH 522. Contemporary Rhetorical Theory. (3-0-3); on demand.** **Prerequisite:** *SPCH 521 or permission of the instructor.* The study of rhetorical theory from the Renaissance to the present.

**SPCH 523. Rhetorical Criticism. (3-0-3); on demand.** Application of classical and modern rhetorical theory; analysis and criticism of selected speeches.

**SPCH 527. American Public Address. (3-0-3); on demand.** Major speeches, speakers, and movements in America from the Colonial Period to the New Deal.

**SPCH 530. Contemporary Public Address. (3-0-3); on demand.** Major speeches, speakers, and movements from the 1930s to the present.

**SPCH 567. Organizational Communication. (3-0-3); I.** Study of the functions of communication within organizations and related professional environments.

**SPCH 583. Advanced Small Group Communication. (3-0-3); on demand.** **Prerequisite:** *SPCH 383 or permission of instructor.* Study of current theory and concepts pertaining to the discussion process.

## Social Work

**SWK 205. The Family. (3-0-3); I.** (See SOC 205).

**SWK 210. Orientation to Social Work. (3-1-4); I, II.** **Prerequisites:** *Completion of 24 hrs. of general education requirements, or permission of the instructor.* Introduction to contemporary fields of social work practice in both primary and secondary settings. The principal focus of the course is familiarization of students to the breadth and scope of professional social work intervention into contemporary societal problems.

**SWK 230. Social Welfare History and Ethics. (3-0-3); I, II.** **Prerequisites:** *Completion of SWK 210, or permission of the instructor.* Dominant values of American society that influence both social welfare policy and social work practice will be explored through a study of the historical evolution of the institution of social welfare from the Colonial period to the present in this country.

**SWK 310. Field Experience in Social Work. (1-2-3); I, II, III.** **Prerequisites:** *Junior or senior year social work majors or minors. SWK 210 and SWK 333 or SWK 360.* Observation and

work experience in a social work agency under the supervision of a professional.

**SWK 315. Child Welfare Services. (3-0-3); I, II.** Local, state, and national policies and programs designed to provide for the care, protection, and support of children.

**SWK 322. Human Behavior in the Social Environment. (3-0-3); I, II.** *Prerequisites:* Completion of SWK 230, BIOL 105, PSY 154, SOC 101, or permission of the instructor. *Co-requisites:* SWK 450. A study of the development of human behavior in the context of social systems. Primary emphasis will be placed on an exploration of needs and tasks of individuals, groups, families, organizations, and communities during various life-stages of growth and development. Environmental concerns affecting women, minorities and other special populations will be examined.

**SWK 325. Social Work Theory and Method. (3-0-3); I, II.** *Prerequisites:* PHIL 200 or 303, SWK 322, 450 and formal program screen-in. *Co-requisites:* SWK 451. A theoretical and conceptual exposure to a social work method involving a six-stage problem-solving process based upon a general systems perspective. The evolution of this method; the relationship of knowledge, values and theory to it; and its application within a bureaucratic structure are addressed.

**SWK 330. Applied Medical Sociology. (3-0-3); II.** (See SOC 330).

**SWK 333. Beginning Skills for Human Service Professionals. (3-0-3); I, II, III.** This course provides students with knowledge and beginning helping skills that can be applied to assist individuals who are having social/emotional problems.

**SWK 340. Community Mental Health. (3-0-3); on demand.** This course provides a microscopic perspective of the institutions and programs that have evolved in response to understanding a class of persons traditionally dependent upon medicine and social programs. Emphasis will be placed upon review of the values, knowledge, and skills characteristic of the entry-level social worker in the community mental health agency.

**SWK 345. Law and Social Work. (3-0-3); on demand.** This course will focus upon legal and legislative processes involving licensing and certification of the profession; rights of clients and special populations; access to legal and social services; testifying before judicial and legislative bodies; and other legal issues and concerns facing social work practitioners.

**SWK 350. The Human Experience of Sex and Gender. (3-0-3); I, II.** Focus of course will be on meanings attached to sex and gender, theoretical explanations of those meanings, the institutions which influence perceptions and behaviors, and the impact of social definition and practices on individuals, male and female. (See SOC 350.)

**SWK 360. Crisis Intervention. (3-0-3); I, II.** Overview of strategies for addressing critical situations requiring immediate intervention. Subjects include threatened suicide, rape trauma, domestic violence, violent episodes of mental illness, and physical assaults.

**SWK 370. Substance Abuse Counseling. (3-0-3); on demand.** Causes of alcoholism and other substance abuse will be addressed as well as an overview of policy and practice issues for providing effective treatment of those afflicted. The course will include a comparison of existing treatment techniques and programs commonly used.

**SWK 380. Social Work Practice in Health Care. (3-0-3); I, II.** This course examines the practice of social work in health care settings. The roles and tasks of social workers in hospital, long-term care, hospice, and home health care settings will be

discussed and analyzed. Special emphasis will be placed on rural issues that impact practice delivery in these settings.

**SWK 399. Selected Topics. (1 to 3 hrs.); on demand.** Unique topics and learning experiences that supplement regular course offerings. May be repeated in additional subject areas.

**SWK 410. Practicum in Social Work. (4 to 8 hrs.); I, II.** *Prerequisites:* SWK 424, SWK 426, SWK 430 and formal program screen-in. *Co-requisites:* SWK 498 and 499C. Integration of theory and method to actual case situations assigned within a 512 hour professionally supervised field experience within a selected human service organization.

**SWK 424. Social Work Practice Skills I. (3-0-3); I, II.** *Prerequisites:* SWK 325, SWK 451 and formal program screen-in. *Co-requisites:* SWK 426 and SWK 430. The development of skills related to interviewing, data collection, assessment, goal development, interventive strategy formulation, contracting, interventive counseling, and monitoring/evaluation design as they relate to the application of the social work method to micro-level individual client systems.

**SWK 426. Social Work Practice Skills II. (3-0-3); I, II.** *Prerequisites:* SWK 325, SWK 451 and formal program screen-in. *Co-requisites:* SWK 424 and SWK 430. Continuation of the development of skills associated with the application of the social work method to mezzo-level therapeutic groups, task-centered groups, marital and family client systems.

**SWK 430. Social Policy and Planning. (3-0-3); I, II.** *Prerequisites:* SWK 325, SWK 451, ECON 201, GOVT 242, and formal program screen-in. *Co-requisites:* SWK 424 and SWK 426. The application of a framework of analysis to a variety of social welfare policies. This course provides an exposure to social-economical-political-legal issues affecting social welfare policy formulation, selection of delivery systems, and program funding.

**SWK 450. Research Methodology. (3-0-3); I, II, III.** *Prerequisites:* Math requirement and SWK 230. *Co-requisites:* SWK 322. An examination into the premises and practices of social science research. When addressing quantitative and qualitative approaches, students will explore the issues of research designs, data collection, and data analysis. In the end, students will be able to determine ways in which empirical studies can enhance their subsequent careers in the field of human services.

**SWK 451. Social Science Data Analysis. (3-0-3); I, II.** *Prerequisites:* Completion of all general education requirements, SWK 322, 450 and formal program screen-in. *Co-requisites:* SWK 325. (See SOC 451).

**SWK 497. Practicum in Social Work. (0-8-8); I, II.** *Prerequisites:* SWK 325 and SWK 451, and formal program screen-in. *Co-requisite:* SWK 498 and SWK 499C. Integration of theory and method to actual case situations assigned within a 512 hour professionally supervised field experience within a selected human service organization. This course along with SWK 498 and SWK 499C satisfies the integrative component for general education.

**SWK 498. Social Work Practice Skills III. (3-0-3); I, II.** *Prerequisites:* SWK 424, SWK 426, SWK 430 and formal program screen-in. *Co-requisites:* SWK 497 and 499C. Continuation of the skills associated with the application of the social work method to macro-level organizational, neighborhood and community client systems. This course along with SWK 497 and SWK 499C satisfies the integrative component for general education.

**SWK 499C. Senior Seminar.** (1-0-1); I, II. *Prerequisites:* SWK 424, SWK 426, SWK 430 and formal program screen-in. *Capstone Semester. Co-requisites:* SWK 497 and SWK 498. Preparation for applying and interviewing for prospective professional employment, taking state merit examinations, taking licensing and certification tests, and enrolling within graduate programs of social work. Discussions also focus upon issues at the workplace. *This course along with SWK 497 and SWK 498 satisfies the integrative component for general education.*

**SWK 500. Special Problems.** (1 to 3 hrs.); I, II, III. *Prerequisite:* Consent of instructor. Arranged with department to study a particular topic in the social work field.

**SWK 515. Correctional Counseling.** (3-0-3); II. *Prerequisites:* SOC/CRIM 210, social work major, or consent of instructor. (See CRIM 515.)

**SWK 520. Social Work Administration and Management.** (3-0-3); on demand. The history, nature, organizational structure, and philosophy of the administration of public programs of income maintenance and other welfare services; consideration of the role of voluntary agencies.

**SWK 535. Group Dynamics.** (3-0-3); on demand. This course is designed to give the student an understanding of group methods and the theories underlying the use of groups in the helping process. Special emphasis will be given to the processes that affect the development and functioning of all types of groups.

**SWK 540. Gerontology.** (3-0-3); II. (See SOC 540).

**SWK 545. Death and Dying.** (3-0-3); I, II. (See SOC 545).

## Theatre

**THEA 100. Fundamentals of the Theatre.** (2-2-3); I. An introduction to the theatre as an art form, its historic and organizational structure. For theatre majors and minors.

**THEA 110. Introduction to the Theatre.** (3-0-3); I, II. An introduction to the theatre as an art form, its historic and organizational structure. *This course satisfies the area studies-humanities for general education.*

**THEA 200. Introduction to Dramatic Literature.** (3-0-3); I. Representative dramatic literature from Greek antiquity to the present.

**THEA 208. Beginning Ballet.** (1-4-3); on demand. A study and application of basic ballet techniques.

**THEA 210. Technical Production.** (1-4-3); II. A study of the technical elements in theatrical production; set construction, lighting, and sound.

**THEA 284. Acting Techniques.** (3-0-3); I. A study of acting from both the aesthetic and the practical viewpoints; exercises in pantomime and vocal techniques.

**THEA 308. Intermediate Ballet.** (1-4-3); on demand. *Prerequisite:* THEA 208 or permission of instructor. A further study of ballet techniques and profiles of famous dancers.

**THEA 309. Tap Dancing.** (1-4-3); on demand. A study and application of tap dance techniques.

**THEA 310. Stage Movement.** (2-0-2); on demand. The study and practice of stage fighting and movement in various historical periods.

**THEA 311. Theatre Practicum I.** (1 to 3 hrs.); on demand. May be repeated. *Prerequisite:* THEA 100 or approval of instructor. To provide independent guided study for the development of specialization in specific areas of the theatre.

**THEA 312. Theatre Practicum II.** (1 to 3 hrs.); on demand. May be repeated. *Prerequisite:* THEA 311.

**THEA 313. Theatre Practicum III.** (1 to 3 hrs.); on demand. May be repeated. *Prerequisite:* THEA 312.

**THEA 315. Stage Make-up.** (2-2-3); on demand. Study and application of make-up and techniques for the stage.

**THEA 316. Stage Properties.** (2-2-3); on demand. The study and practice of stage properties, their construction, acquiring, and repair; the study of furniture history.

**THEA 317. Scene Painting.** (2-2-3); on demand. The study and practice of paints and painting techniques as they apply to the scenic artist.

**THEA 320. Sceneographic and Drawing Techniques.** (2-2-3); I. *Prerequisite:* THEA 210 or consent of instructor. The study and practice of basic drawing techniques which uniquely apply to theatrical design and mechanical working drawing for stage scenery.

**THEA 321. Stage Lighting.** (2-2-3); on demand. *Prerequisite:* THEA 210 and 320. The mechanical and artistic approach to stage lighting; study of electrical theory and instrument utilization.

**THEA 322. Scene Design.** (2-2-3); II. *Prerequisite:* THEA 210 and 320. The study of design theories with the creation and development of scene design projects and rendering techniques.

**THEA 325. Stage Costume and History I.** (1-4-3); on demand. Creation of costume design with emphasis on the principles of design and rendering techniques related to historic design.

**THEA 326. Stage Costume and History II.** (1-4-3); on demand. Creation of costume design with emphasis on the principles of design and rendering techniques related to historic design.

**THEA 327. Creative Sewing for the Theatre I.** (1-4-3); I. A course in creating original patterns for stage costumes and construction techniques.

**THEA 328. Creative Sewing for the Theatre II.** (1-4-3); II. An advanced course in creating original patterns for stage costumes.

**THEA 354. Theatre History.** (3-0-3); on demand. A study of the origins and development of theatre.

**THEA 375. Creative Dramatics.** (3-0-3); I, II. An analysis and application of principles of creative dramatics as applied to classroom curricular activities.

**THEA 380. Play Directing.** (3-0-3); II. *Prerequisite:* THEA 100, THEA 210, and THEA 284 or permission of instructor. Theories and principles of directing; director's interpretation; casting; planning action and making the prompt-book.

**THEA 408. Advanced Ballet.** (1-4-3); on demand. *Prerequisite:* THEA 308 or permission of the instructor. Advanced study of ballet techniques and profiles of historical dances.

**THEA 484. Styles of Acting.** (3-0-3); on demand. A study of techniques for creating characters from various dramatic styles and historical periods through research and performance.

**THEA 499C. Senior Seminar Theatre.** (3-0-3); II. *Prerequisites:* Senior standing required. Completion of a minimum of 18 hours toward a major in Theatre, or permission of the Department Chair. This course is designed for students majoring in Theatre. It will entail individualized and group instruction, assessment and career preparation focused on disciplinary competencies and general life skills with an emphasis on the integration of knowledge and skills acquired in the program. *This course satisfies the integrative component for general education.*

**THEA 512. Playwriting.** (3-0-3); on demand. *Prerequisite:* THEA 200 and 100 or permission of instructor. An analysis of the structure of plays and the writing of original scripts.

**THEA 513. Advanced Play Direction.** (3-0-3); on demand. *Prerequisite:* THEA 380. To develop greater proficiency in techniques of directing as related to specific productions and staging problems.

**THEA 530. Summer Theatre III.** (4-0-4); III. *Prerequisite:* THEA 300 and acceptance into summer theatre company. Advanced assignments in set and costume design or advanced acting and directing. (May be repeated.)

**THEA 552. Early Dramatic Literature.** (3-0-3). A detailed study of representative plays from the Greeks to mid-nineteenth century.

**THEA 553. Modern Dramatic Literature.** (3-0-3); II. A detailed study of the drama from the growth of realism to the present day.

**THEA 555. Dramatic Criticism.** (3-0-3); on demand. *Prerequisite:* THEA 100, THEA 200, THEA 354, or permission of instructor. Dramatic theory and criticism as developed through Aristotle, Horace, the middle ages, the Renaissance, and the twentieth century.

**THEA 562. Advanced Acting.** (3-0-3); on demand. *Prerequisite:* THEA 284 or permission of instructor. Advanced study of acting, including analysis and development of characters in acting situations.

**THEA 563. Advanced Costuming.** (2-2-3); on demand. *Prerequisite:* THEA 326 or permission of instructor. Designing costumes for theatrical production, making patterns, and the fabrication of garments for the stage.

**THEA 564. Advanced Scene Design.** (2-2-3); on demand. *Prerequisites:* THEA 210, 320, and 322 or permission of instructor. To develop greater proficiency in the skills of scenic design as applied to specific problems and theatrical productions.

**THEA 565. Advanced Stage Lighting.** (2-2-3); on demand. *Prerequisite:* THEA 210, THEA 320, and THEA 322 or permission of instructor. To develop proficiency in the skills of lighting specific productions; to research topics and special problems pertaining to stage lighting.

**THEA 570. Children's Theatre.** (3-0-3); on demand. *Prerequisite:* THEA 100. A concentrated study of the problems involved in organization and production of plays for and with children.

## Veterinary Technology

**VET 108. Veterinary Clinical Anatomy.** (2-2-3); I. *Prerequisite:* Admission to Veterinary Technology Program. A basic comparative anatomy of domestic animals with an emphasis on the structure and function of the major organ systems. The laboratory will include identification of anatomical structures.

**VET 110. Animal Care Techniques I.** (2-4-2); I (first nine weeks). *Prerequisite:* Admission to Veterinary Technology Program. Basic animal care and management of the canine and feline species encountered in veterinary practice. The laboratory will include essential tasks related to the handling, restraint, treatment, and routine care of animals.

**VET 111. Animal Care Techniques II.** (2-4-2); I (second nine weeks). *Prerequisite:* "C" or better in VET 110. Basic animal care and management of the equine and avian species encountered in veterinary practice. The laboratory will include

tasks related to the handling, restraint, treatment, and routine care of animals.

**VET 211. Animal Care Techniques III.** (3-2-2); II (first nine weeks). *Prerequisite:* "C" or better in VET 111. Basic animal care and management of common laboratory animal species. The laboratory will include essential tasks related to the handling, restraint, treatment, and routine care of laboratory animals.

**VET 212. Veterinary Surgical Nursing.** (3-2-2); II (second nine weeks). *Prerequisite:* "C" or better in VET 211. Basic veterinary surgical nursing techniques, personnel, instrumentation, equipment, and facilities with emphasis on identification, preparation, and maintenance.

**VET 216. Veterinary Clinical pathology I.** (3-2-2); II (first nine weeks). *Prerequisite:* "C" or better in VET 108 and VET 111. An introduction to basic clinical pathology concepts and techniques common to veterinary practice. Includes comparative hematology, laboratory safety, equipment maintenance, quality control, and record keeping.

**VET 217. Veterinary Clinical Pathology II.** (3-2-2); II (second nine weeks). *Prerequisite:* "C" or better in VET 216. An introduction to basic clinical pathology concepts and techniques common to veterinary practice. Includes introductory parasitology, laboratory safety, equipment maintenance, quality control, and record keeping.

**VET 233. Veterinary Physiology and Pharmacology I.** (3-2-2); II (first nine weeks). *Prerequisite:* MATH 135 or higher, and "C" or better in VET 108 and VET 111. An integrated study of the physiology and pharmacology of vital organ systems of animals with emphasis on providing essential life-support through monitoring, evaluation, and intervention. Laboratory will include pharmacological calculations and electrocardiogram procedures.

**VET 234. Veterinary Physiology and Pharmacology II.** (3-2-2); II (second nine weeks). *Prerequisite:* "C" or better in VET 233. An integrated study of the physiology and pharmacology of the nervous system of animals with special emphasis on anesthetics. Laboratory will include pharmacological calculations and anesthetic procedures.

**VET 255. Large Animal Clinics I.** (6-12-6); I. *Prerequisite:* "C" or better in VET 212, VET 217, and VET 234. A study of clinical procedures, techniques, and preventive medicine principles related to assisting the practicing veterinarian with clinical cases, hospital management, and client education related to food animal and equine practice. Some evening and weekend duties are required.

**VET 256. Small Animal Clinics I.** (6-12-6); I. *Prerequisite:* "C" or better in VET 212, VET 217, and VET 234. A study of clinical procedures, techniques, and preventive medicine principles related to assisting the practicing veterinarian with clinical cases, hospital management, and client education related to companion animal practice. Some evening and weekend duties are required.

**VET 355. Large Animal Clinics II.** (6-12-6); II. *Prerequisite:* "C" or better in VET 255. A continuation of VET 255. A study of clinical procedures, techniques, and preventive medicine principles related to assisting the practicing veterinarian with clinical cases, hospital management, and client education related to food animal and equine practice. Some evening and weekend duties are required.

**VET 356. Small Animal Clinics II.** (6-12-6); II. *Prerequisite:* "C" or better in VET 256. A continuation of VET 256. A study of clinical procedures, techniques, and preventive

medicine principles related to assisting the practicing veterinarian with clinical cases, hospital management, and client education related to companion animal practice. Some evening and weekend duties are required.

**VET 363. Veterinary Preceptorship. (0-40-1); I, II, III.**

**Prerequisite:** "C" or better in VET 355 and VET 356. An external practicum in which the student makes the transition from school to the workplace. Emphasis is placed upon proper utilization of the knowledge and techniques learned in the academic program and on continued learning. A weekly journal of activities and case reports are required. Consists of a minimum of four weeks at forty hours per week at an approved veterinary facility.

## Vocational Education

**VOC 207. Foundations of Vocational Education. (3-0-3); II.**

Orientation for students enrolled in vocational teaching program in agricultural education, industrial technology education, and family and consumer science education. Course will provide a historical overview of vocational education legislation.

## Welding Technology

**WEL 307. Automated Welding Technology. (0-6-3); II.**

**Prerequisite:** WEL 386 or consent of instructor. Metal inert gas welding techniques adapted to robots and other automated welding systems. Suitable for both welding technology students and other students involved with the robotics engineering technology option.

**WEL 386. Welding I. (2-2-3); I, II.** Pressure, non-pressure, and brazing processes for material fabrication. Arc, oxyacetylene, inert gas, and special welding techniques. Coupon analysis required for destructive and nondestructive testing.

## Women's Studies

**WST 273. Introduction to Women's Studies. (3-0-3); I, II.**

**Prerequisites:** ENG 100 or equivalent. An interdisciplinary course designed to introduce students to educational, historical, aesthetic, sociological, and political conceptions of gender as defined and experienced by women. *This course satisfies either the area studies-social and behavioral sciences for general education.*

**WST 490. Integrative Capstone in Women's Studies. (3-0-3); II.** This course is designed to integrate knowledge and understanding of Women's Studies issues through a mastery of research strategies and creative expressions as applied to the students' professional goals.

## Administrative Directory

### Board of Regents

Lois Baker, Whitesburg  
 Gene Caudill, Staff  
 James A. Finch, Maysville  
 Buckner Hinkle, Jr., Lexington  
 Erin Hughey, Student  
 L. M. (Sonny) Jones, Frankfort  
 Bruce Mattingly, Faculty  
 Helen Pennington, West Liberty  
 Charles M. Rhodes, Ashland  
 John M. Rosenberg, Prestonsburg  
 William R. Seaton, Ashland

### Officers of the Board

L. M. Jones, Chairperson  
 Buckner Hinkle, Vice Chairperson  
 W. Porter Dailey, Treasurer  
 Carol Johnson, Secretary

### Office of the President

Ronald G. Eaglin, President  
 Carol Johnson, Assistant to the President  
 John M. Seelig, Special Assistant to the President

### Academic Affairs

Michael R. Moore, Executive Vice President for Academic Affairs  
 and Dean of Faculty  
 Marc D. Glasser, Associate Vice President for Academic Affairs and  
 Dean of Graduate and Undergraduate Programs  
 Beverly McCormick, Assistant Vice President for  
 Enrollment Management  
 Larry Besant, Director of Libraries  
 Dan Connell, Associate Dean for Academic Support and  
 Extended Campus Programs  
 George M. Luckey, Honors Program Director  
 Carole Morella, Director of Research, Grants and Contracts  
 Gene Ranvier, Registrar  
 Margaret Lewis, Director, MSU Big Sandy Extended Campus Center  
 Jonell Tobin, Director, MSU Licking Valley Extended Campus Center  
 H. Jack Webb, Director, MSU Ashland Area Extended Campus Center  
 Tim Young, Interim Director, Distance Education

### Business, College of

Robert Albert, Interim Dean  
 Green Miller, Chair, Department of Accounting and Economics  
 Elizabeth Regan, Chair, Department of Information Systems  
 M. Peggy Osborne, Chair, Department of Management and Marketing  
 Shirley Hamilton, Director of Community Development

### Education and Behavioral Sciences, College of

Harold Harty, Dean  
 Cathy Barlow, Chair, Department of Elementary,  
 Reading and Special Education  
 Jack C. Sheltmire, Chair, Department of Health, Physical Education  
 and Recreation  
 Vacant, Chair, Department of Leadership and  
 Secondary Education  
 Brian Crotts, Chair, Department of Military Sciences  
 Bruce Mattingly, Chair, Department of Psychology  
 David R. Rudy, Chair, Department of Sociology,  
 Social Work, and Criminology  
 Shirley Blair, Director, Student Teaching/Clinical  
 Ralph Shoaf, Coordinator, Kentucky Teacher Internship Program/  
 Teacher Education Admissions

Rosemarie Gold, Director, Clearinghouse and School  
 Services/Certification

### Humanities, Caudill College of

Lemuel Berry, Jr., Dean  
 Robert Franzini, Chair, Department of Art  
 Janet Kenney, Chair, Department of Communications  
 Mark G. Minor, Chair, Department of English,  
 Foreign Languages, and Philosophy  
 Ric Caric, Chair, Department of Geography,  
 Government, and History  
 Christopher Gallaher, Chair, Department of Music

### Science and Technology, College of

Gerald DeMoss, Dean  
 R. Lane Cowser, Chair, Department of Agricultural Sciences  
 Joe E. Winstead, Chair, Department of Biological  
 and Environmental Sciences  
 Marilyn Y. Sampley, Chair, Department of Human Sciences  
 Robert Hayes, Chair, Department of Industrial  
 Education and Technology  
 Rodger Hammons, Chair, Department of Mathematical Sciences  
 Betty Porter, Chair, Department of Nursing and Allied  
 Health Sciences  
 Charles J. Whidden, Chair, Department of Physical Sciences

### Administration and Fiscal Services

Porter Dailey, Vice President for Administration  
 and Fiscal Services  
 Michael R. Walters, Associate Vice President for Fiscal Services  
 Kathy Cox, Administrative Assistant II  
 Joe Planck, Director of Physical Plant  
 Angela Martin, Director of Budgets and Management Information  
 Francene Botts-Butler, Director of Human Resources  
 James Fluty, Director of Accounting and Budgetary Control  
 Charlotte Dowdy, Director of Support Services  
 Beverly Hatfield, Internal Auditor  
 Teresa Brown, Director of University Bookstore  
 Beth Patrick, Assistant Vice President for Information Technology  
 Jo Brewer, Director of Payroll  
 Elaine Parish, Postmaster  
 Michael Ray, Director of Food Services  
 Garry Barker, Director of Folk Art Center

### Student Life

D. Michael Mincey, Vice President for Student Life  
 and Director of Athletics  
 Myron Doan, Dean of Students  
 Jeanie Scruggs, Administrative Assistant II  
 Larry Stephenson, Director of Student Activities  
 Jerry Gore, Minority Student Affairs Director  
 Tim Rhodes, Director of Financial Aid  
 Madonna Weathers, Director of Student Development  
 Kenny White, Director of Student Housing  
 Richard Green, Manager of Public Safety  
 Kathleen Worthington, Associate Director of Athletics

### University Relations

Keith Kappes, Vice President for University Relations and  
 Chief Executive Officer, MSU Foundation, Inc.  
 Brigitte Combs, Director of Institutional Marketing  
 James M. Gifford, Executive Director, The Jesse Stuart Foundation, Inc.  
 Gordon Nichols, Interim WMKY Station Manager  
 Linda Simpson, Administrative Assistant II  
 Jeffrey Spradling, Director of Marketing Support  
 Pauline Young, Director of University Communications

*The date in parentheses after the name is that of first appointment to a position on the faculty of this University.*

## College of Business

### Department of Accounting, Economics and Finance

Ali Ahmadi, assistant professor (1995), Ph.D., University of Oklahoma  
 Robert Albert, associate professor (1995), Ph.D.,  
 University of Cincinnati  
 Roland Buck, professor (1983), Ph.D., Texas A&M University  
 Rosemary Carlson, professor (1983), DBA, University of Kentucky  
 Thomas Creahan, assistant professor (1996), Ph.D.,  
 University of Cincinnati  
 Terry Elliott, assistant professor (1988), M.S.A., Marshall University  
 Marcus Gaddis, assistant professor (1995, Ph.D., University of Kentucky  
 Ishappa Hullur, associate professor (1989), Ph.D.,  
 University of Kentucky  
 Green Miller, professor (1979), Ph.D., University of Kentucky  
 John Osborne, assistant professor (1977), M.B.A.,  
 Eastern Kentucky University  
 Martha Sale, assistant professor (1998), Ph.D.,  
 Louisiana Tech University  
 Sharon Walters, associate professor (1987), M.B.A.,  
 Morehead State University  
 L. K. Williams, professor (1988), DBA, University of Kentucky  
 Mesghena Yasin, associate professor (1986), Ph.D.,  
 University of Cincinnati

### Department of Information Systems

Bonnie Bailey, assistant professor (1979), M.B.A.,  
 Morehead State University  
 Donna Everett, assistant professor (1996), Ed.D., University of Houston  
 Jack Henson, assistant professor (1970), M.S.E.,  
 Arkansas State University  
 Steven Hunt, associate professor (1997), Ph.D., University of Georgia  
 Hilary Iwu, associate professor (1988), Ph.D., University of Nebraska  
 Grover Kearns, assistant professor (1996), ABD, University of Kentucky  
 Randy McCoy, assistant professor (1997), Ed.D., University of Georgia  
 Elizabeth Regan, associate professor (1998), Ph.D.,  
 University of Connecticut  
 Deborah Tesch, associate professor (1993), Ph.D.,  
 Louisiana Tech University  
 Robert Tesch, associate professor (1993), Ph.D., Utah State University

### Department of Management and Marketing

Jim Bogert, assistant professor (1997), Ph.D., Texas A & M  
 C. Dale Caudill, assistant professor (1980), M.B.A.,  
 Morehead State University  
 Lary Cowart, assistant professor (1997), Ph.D., University of Georgia  
 Wilson Grier, assistant professor (1993), M.B.A.,  
 Morehead State University  
 Michael Harford, associate professor (1988), J.D.,  
 Wake Forest University  
 Robert Hatfield, assistant professor (1997), Ph.D., Indiana University  
 Betty Hoge, assistant professor (1996), ABD, University of Kentucky  
 Ancil Lewis, instructor (1997), M.B.A., Morehead State University  
 Robert Lorentz, associate professor (1994), DBA,  
 Mississippi State University  
 Mary Peggy Osborne, associate professor (1979), M.B.A.,  
 Morehead State University  
 Jack Peters, associate professor (1979), Ph.D.,  
 University of North Dakota  
 Stacy Vollmers, assistant professor (1996), Ph.D.,  
 Florida State University

## College of Education and Behavioral Sciences

### Department of Elementary, Reading and Special Education

Cathy Barlow, professor (1994), Ed.D., University of Tulsa  
 Shirley Blair, associate professor (1970), A.M.,  
 Morehead State University  
 Diane Cox, assistant professor (1978), Ed.S., Morehead State University  
 Rita Egan, assistant professor (1997), Ph.D., University of Alberta  
 Kent Freeland, professor (1977), Ph.D., University of Iowa  
 Daniel Grace, associate professor (1986), Ph.D., University of Oregon  
 Colleta Grindstaff, assistant professor (1969), A.M.,  
 East Tennessee State University  
 Karen Hammons, assistant professor (1972), M.A.,  
 Morehead State University  
 James Knoll, associate professor (1994), Ph.D., Syracuse University  
 Karen Lafferty, assistant professor (1997), Ed.D.,  
 Indiana University of Pennsylvania  
 Colleen Larson, assistant professor (1997), Ed.D.,  
 Oregon State University  
 Paul R. McGhee, professor (1983), Ph.D., Syracuse University  
 Timothy Miller, associate professor (1988), Ed.D., Ball State University  
 Adele Moriarty, assistant professor (1996), Ed.D.,  
 University of Alabama  
 Barbara Niemeyer, associate professor (1983), Ed.D.,  
 Arizona State University  
 Faye Newsome, assistant professor (1995), M.A.,  
 Morehead State University  
 Phyllis Oakes, associate professor (1988), Ph.D.,  
 Indiana State University  
 Sunday Obi, assistant professor (1994), Ed.D.,  
 Universidad Inca Garcilaso De La Vega, Lima, Peru  
 David Peterson, associate professor (1991), Ed.D.,  
 East Tennessee State University  
 Mary Anne Pollock, associate professor (1977), Ed.D.,  
 University of Kentucky  
 Dreama Price, assistant professor (1974), A.M.,  
 Morehead State University  
 Edna Schack, associate professor (1987), Ed.D., Illinois State University  
 Markham Schack, professor (1987), Ed.D., Oklahoma State University  
 Melinda Willis, assistant professor (1996), Ed.D.,  
 University of Kentucky  
 Wayne Willis, associate professor (1988), Ph.D.,  
 University of Oklahoma  
 Alice Young, assistant professor (1995), Ph.D.,  
 University of Southern Illinois

### Department of Leadership and Secondary Education

Joseph Armstrong, assistant professor (1998), ABD,  
 University of Tennessee  
 Thomas Diamantes, associate professor (1994), Ed.D.,  
 University of Cincinnati  
 Daniel Fasko, Jr., professor (1987), Ph.D., Florida State University  
 Deborah Grubb, assistant professor (1991), Ph.D.,  
 Indiana State University  
 Edie Hall, assistant professor (1997), Ph.D., West Virginia University  
 Leisa Lennex, assistant professor (1996), Ed.D., University of Tennessee  
 Dean Owen, professor (1977), Ph.D., University of Florida  
 Sharon Pullen, assistant professor (1994), Ph.D., University of Nebraska  
 Wanda L. Staley, associate professor (1992), Ph.D.,  
 Kent State University  
 William J. Weikel, professor (1975), Ph.D., University of Florida

## Department of Health, Physical Education, and Recreation

- Palmer Adkins, assistant professor (1979), Ed.D., Middle Tennessee State University
- Dayna Brown, associate professor (1989), Ed.D., University of Kentucky
- Laradean Brown, assistant professor (1972), M.A., Morehead State University
- Buford Crager, assistant professor (1967), M.H.E., Morehead State University
- Lynne Elizabeth Fitzgerald, associate professor (1986), Ed.D., Temple University
- Robert Grueninger, professor (1989), Ph.D., University of Oregon
- Teresa Hardman, assistant professor (1995), Ph.D., Southern Illinois University
- Monica A. Magner, assistant professor (1991), Ed.D., West Virginia University
- Reginald Overton, assistant professor (1996), Ed.D., Temple University
- Jack C. Sheltmire, professor (1993), Ph.D., College of Environmental Science and Forestry, Syracuse
- Youmasu Siewe, assistant professor (1997), Ph.D., Southern Illinois University

## Department of Military Science

- Brian Crofts, Lieutenant Colonel, professor (1996), M.S., University of Arkansas
- Scott Erdo, Major, assistant professor (1996), B.S., The Citadel
- Reginald Daniel, Master Sergeant, chief instructor (1996)
- Ernest High, Sergeant, assistant chief instructor (1997)

## Department of Psychology

- Christi C. Bruening, assistant professor (1996), Ph.D., University of Southern Mississippi
- Desirre Budd, assistant professor (1997), M.A., Washington State University
- Laurie L. Couch, assistant professor (1997), Ph.D., University of Tennessee
- Lynn Haller, associate professor (1992), Ph.D., Miami University
- Bruce A. Mattingly, professor (1980), Ph.D., University of Kentucky
- Charles Morgan, associate professor (1979), Ph.D., University of Florida
- David R. Olson, associate professor (1990), Ph.D., Oklahoma State University

## Department of Sociology, Social Work, and Criminology

- Paul Becker, assistant professor (1996), Ph.D., Bowling Green State University
- Robert Blair, assistant professor (1997), Ph.D., University of Utah
- Edward Breschel, assistant professor (1994), Ph.D., Duke University
- Robert A. Bylund, professor (1979), Ph.D., Pennsylvania State University
- Constance L. Hardesty, associate professor (1994), Ph.D., University of Kentucky
- Becky Katz, assistant professor (1995), Ph.D., University of Oklahoma
- John Lott, III, assistant professor (1997), M.S.W., University of Kentucky
- Ted A. Marshall, professor (1977), M.S.W., University of Kentucky
- William Martin, assistant professor (1997), Ph.D., Ohio State University
- Edward Reeves, professor (1984), Ph.D., University of Kentucky
- Susanne Rolland, assistant professor (1994), Ph.D., Emory University
- David R. Rudy, professor (1980), Ph.D., Syracuse University
- Stuart Scharf, assistant professor (1996), DSW, Columbia University
- Yolanda Scott, assistant professor (1997), ABD, University of Kentucky
- J. Michael Seelig, professor (1983), J.D., Capital University
- Judith A. Stafford, associate professor (1989), Ph.D., Ohio State University

- Erik Swank, assistant professor (1996), Ph.D., Ohio State University
- Suzanne Tallichet, associate professor (1993), Ph.D., Pennsylvania State University
- Alban L. Wheeler, professor (1972), Ph.D., Mississippi State University

## Caudill College of Humanities

### Department of Art

- David Bartlett, associate professor (1980), M.F.A., University of Michigan
- Dixon Ferrell, associate professor (1980), M.F.A., University of Mississippi
- Robert Franzini, professor (1980), M.F.A., University of Iowa
- Deno Golding, assistant professor (1994), M.F.A., Savannah College of Art and Design
- Joy Gritton, assistant professor (1997), Ph.D., U. C. L. A.
- Elizabeth Mesa-Gaido, assistant professor (1994), M.F.A., Ohio University
- Gary Mesa-Gaido, assistant professor (1994), M.F.A., Ohio University
- Stephen Tirone, associate professor (1982), M.F.A., University of Wisconsin

### Department of Communications

- Lawrence S. Albert, professor (1986), Ph.D., Pennsylvania State University
- Timothy Ashmore, assistant professor (1998), Ph.D., University of Utah
- Joan Atkins, assistant professor (1992), M.A., Morehead State University
- Michael Biel, professor (1978), Ph.D., Northwestern University
- David Collins, assistant professor (1981), M.A., Marshall University
- Elizabeth Noel Earl, assistant professor (1991), Ph.D., Ohio University
- Robert Frank, assistant professor (1997), Ph.D., University of Georgia
- Dale Greer, assistant professor (1982), M.A., Morehead State University
- Serjit Kasior, associate professor (1992), Ph.D., Bowling Green State University
- Janet Kenney, associate professor (1994), Ph.D., University of Oregon
- Gary LaFleur, associate professor (1994), Ph.D., University of Massachusetts at Amherst
- William J. Layne, professor (1987), Ph.D., Northwestern University
- Calvin O. Lindell, assistant professor (1985), M.A., Abilene Christian University
- Travis Lockhart, professor (1982), Ph.D., University of Texas
- Mark Mallett, assistant professor (1996), ABD, University of Maryland
- John V. Modaff, associate professor (1987), Ph.D., Southern Illinois University
- Larry Netherton, assistant professor (1968), M.A., Morehead State University
- Deborah L. Plum, assistant professor (1989), Ph.D., Ohio University
- Kenneth Sexton, assistant professor (1993), Ph.D., University of Georgia
- Cathy Thomas, associate professor (1994), Ph.D., Ohio University
- Thomas L. Yancy, associate professor (1977), M.A., Morehead State University

### Department of English, Foreign Languages, and Philosophy

- Ann M. Adams, assistant professor (1998), Ph.D., Bowling Green State University
- Vincente Cano, professor (1985), Ph.D., University of Georgia
- C. Glen Colburn, associate professor (1991), Ph.D., University of Texas at Austin
- Scott A. Davison, assistant professor (1995), Ph.D., University of Notre Dame
- George Eklund, associate professor (1989), M.F.A., University of Iowa
- Claire Foley, assistant professor (1996), Ph.D., Cornell University

Marc D. Glasser, professor (1972), Ph.D., Indiana University  
 Eugene B. Hastings, professor (1989), Ph.D., University of Texas  
 Frances L. Helphinstine, professor (1966), Ph.D., Indiana University  
 Sylvia Henneberg, assistant professor (1998), Ph.D.,  
 University of Georgia  
 Terry L. Irons, assistant professor (1993), Ph.D., University of Missouri  
 Robert Lockhart, assistant professor (198), Ph.D.,  
 Virginia Polytechnic Institute and State University  
 George M. Luckey, professor (1961), Ph.D., Southern Illinois University  
 Jennings R. Mace, associate professor (1989), Ph.D.,  
 University of North Carolina  
 George A. Mays, assistant professor (1969), M.H.E.,  
 Morehead State University  
 Kathryn C. Mincey, assistant professor (1990), M.A.,  
 Morehead State University  
 Mark G. Minor, professor (1993), Ph.D., Ohio State University  
 Ronald D. Morrison, associate professor (1988), Ph.D.,  
 University of Kansas  
 Sarah Morrison, associate professor (1988), Ph.D.,  
 University of Kansas  
 Mary M. Netherton, associate professor (1964), M.A.,  
 University of Kentucky  
 L. Layne Neeper, assistant professor (1993), Ph.D.,  
 Pennsylvania State University  
 Wendell O'Brien, associate professor (1992), Ph.D.,  
 Johns Hopkins University  
 Betty H. Peters, assistant professor (1975), Ed.S.,  
 Morehead State University  
 Nancy Peterson, assistant professor (1992), Ph.D.,  
 University of Texas at Austin  
 Robert Royar, assistant professor (1994), Ph.D., University of Louisville  
 John R. Secor, associate professor (1988), Ph.D.,  
 University of North Carolina  
 Lynne Taetzsch, assistant professor (1995), Ph.D.,  
 Florida State University  
 Jack L. Weir, professor (1990), Ph.D.,  
 Southwestern Theological Seminary

## Department of Geography, Government, and History

### Geography

Andrew Curtis, assistant professor (1995), Ph.D., S.U.N.Y. at Buffalo  
 Suzanne Hartley, assistant professor (1997), Ph.D., University of Denver  
 Ronald Mitchelson, professor (1992), Ph.D., Ohio State University  
 Steven Parkansky, assistant professor (1997), ABD, S.U.N.Y. at Buffalo  
 Timothy C. Pitts, assistant professor (1993), Ph.D., S.U.N.Y. at Buffalo

### Government and Paralegal Studies

Lindsey R. Back, professor (1974), Ph.D., University of Tennessee  
 Ric Caric, associate professor (1990), Ph.D.,  
 University of North Carolina  
 Gregory T. Goldey, assistant professor (1997), ABD,  
 University of Oklahoma  
 William Green, professor (1984), Ph.D.,  
 State University of New York at Buffalo  
 Stephen Herzog, assistant professor (1996), J.D., Chase College of Law  
 Xiaobo Hu, assistant professor (1994), Ph.D., Duke University  
 Marilyn Mote-Yale, associate professor (1992), Ph.D.,  
 University of Houston  
 Dianna Murphy, assistant professor (1996), J.D., University of Kentucky

### History

Yvonne Baldwin, associate professor (1992), Ph.D.,  
 University of Kentucky  
 Alana Cain, assistant professor (1995), ABD, Florida State University  
 Susan Eacker, assistant professor (1996), Ph.D., Miami University  
 John Ernst, assistant professor (1995), Ph.D., University of Kentucky  
 John Hennen, assistant professor (1996), Ph.D.,  
 West Virginia University

Charles MacKay, assistant professor (1995), Ph.D.,  
 Florida State University

## Department of Music

Michael Acord, assistant professor (1989), M.M.,  
 Michigan State University  
 Stacy Baker, assistant professor (1996), M.M., University of Michigan  
 Lemuel Berry, Jr., professor (1995), Ph.D., University of Iowa  
 Suanne Blair, assistant professor (1969), M.M.,  
 University of Southern California  
 Jon W. Burgess, associate professor (1988), D.M.A.,  
 Arizona State University  
 Andrew Carlson, assistant professor (1998), M.M.,  
 University of Georgia  
 Susan Creasap, assistant professor (1996), D.A., Ball State University  
 Greg Detweiler, assistant professor (1998), D.M.A.,  
 University of Illinois at Urbana-Champaign  
 R. Jay Flippin, associate professor (1969), M.M.,  
 Morehead State University  
 Christopher S. Gallaher, professor (1972), Ph.D., Indiana University  
 Andrew Glendening, associate professor (1993), D.M.,  
 Indiana University  
 Larry Curtis Hammond, assistant professor (1993), D.M.A.,  
 Florida State University  
 Larry W. Keenan, professor (1967), M.M., Indiana University  
 Ricky R. Little, assistant professor (1995), D.M.A.,  
 Ohio State University  
 Richard Miles, professor (1985), Ph.D., Florida State University  
 Eugene C. Norden, assistant professor (1968), M.M.,  
 Morehead State University  
 Frank Oddis, associate professor (1977), M.M., East Carolina University  
 Roma Prindle, associate professor (1993), D.M.A.,  
 Hartt School of Music  
 Robert D. Pritchard II, associate professor (1972), Mus. A.D.,  
 Boston University  
 Raymond Ross Jr., assistant professor (1978), M.M.,  
 University of North Texas  
 Paul Taylor, associate professor (1990), D.M.A.,  
 University of Wisconsin-Madison  
 Gordon Towell, assistant professor (1995), D.M.E.,  
 University of Cincinnati College-Conservatory of Music  
 John Viton, associate professor (1988), D.M.A., Yale University

## College of Science and Technology

### Department of Agricultural Sciences

Donald Lyn Applegate, associate professor (1984), D.V.M.,  
 Auburn University  
 Vivian Barnes, assistant professor (1984), M.S.,  
 Morehead State University  
 Robert Lane Cowsert, professor (1994), Ph.D.,  
 University of Tennessee at Knoxville  
 Debby A. Johnson, associate professor (1988), Ph.D.,  
 University of Kentucky  
 Barbara Lewis, assistant professor (1981), M.A., C.V.T.,  
 Morehead State University  
 Michael D. McDermott, assistant professor (1995), Ph.D.,  
 Iowa State University  
 Phillip E. Prater, assistant professor (1998), D.V.M.,  
 Ohio State University  
 Charles Brent Rogers, associate professor (1984), Ph.D.,  
 University of Arkansas  
 Scott W. Rundell, associate professor (1984), D.V.M.,  
 Michigan State University  
 Judith G. Willard, associate professor (1977), Ph.D.,  
 University of Kentucky

Robert H. Wolfe, associate professor (1967), M.S.,  
Virginia Polytechnic Institute and State University  
Edward T. Lundergan, farm manager (1982), M.A.,  
Morehead State University  
Joseph C. Fraley, assistant farm manager (1997), B.S.,  
Morehead State University

## Department of Biological and Environmental Sciences

Gerald L. DeMoss, professor (1968), Ph.D., University of Tennessee  
David J. Eisenhour, assistant professor (1997), Ph.D.,  
Southern Illinois University  
Geoffrey Gearner, associate professor (1990), Ph.D.,  
Texas A&M University  
David T. Magrane, professor (1976), Ph.D., University of Arizona  
Leslie E. Meade, professor (1971), Ph.D.,  
University of Southern Mississippi  
Ted Pass II, professor (1972), Ph.D.,  
Virginia Polytechnic Institute and State University  
Brian C. Reeder, professor (1989), Ph.D., Ohio State University  
Allen C. Risk, associate professor (1996), Ph.D.,  
University of Tennessee  
David J. Saxon, professor (1967), Ph.D.,  
Southern Illinois University  
David P. Smith, assistant professor (1997), Ph.D.,  
University of North Texas  
Craig A. Tuerk, assistant professor (1993), Ph.D.,  
University of Colorado  
Joe E. Winstead, professor (1996), Ph.D., University of Texas  
Carol L. Wymer, assistant professor (1998), Ph.D.,  
Pennsylvania State University

## Clinical Faculty

Christopher Baraczak (1983), M.T. (ASCP), B.S.,  
Northern Kentucky University (St. Elizabeth Hospital)  
Lisa Cecil (1981), M.T. (ASCP), B.S., Brescia College  
(Owensboro - Daviess County Hospital)  
James A. Denna (1967), M.D., Medical University of South University  
(Methodist Hospital of Kentucky)  
Jackson Pemberton (1978), M.D., University of Tennessee  
(St. Elizabeth Hospital)  
Marie Keeling (1982), M.D., University of Louisville  
(University of Louisville)  
Betty Martin (1986), M.T. (ASCP), B.S., Pikeville College  
(Methodist Hospital of Kentucky)  
Susan Miller (1982), Ph.D., Catholic University of America  
(University of Louisville)  
C. Omar Wilson, Jr. (1965), M.D., University of Kentucky  
(Owensboro--Daviess County Hospital)  
Madelon Zady (1976), M.T., M.A.T., University of Louisville  
(University of Louisville)

## Department of Human Sciences

Carolyn N. Cogswell, assistant professor (1998), Ph.D.,  
University of Tennessee  
Jane C. Ellington, C.F.C.S., associate professor (1981), M.S.,  
University of Kentucky  
Nancy Graham, R.D., assistant professor (1975), M.S.,  
Morehead State University  
Michelle Kunz, C. C.F.C.S., assistant professor (1988), Ph.D.,  
University of Tennessee  
Brenda Malinauskas, R.D., assistant professor (1997), Ph.D.,  
Auburn University  
Marilyn Y. Sampley, R.D., professor (1987), Ph.D.,  
Texas Women's University  
Pete Stevens, assistant professor (1997), Ph.D.,  
Michigan State University

## Department of Industrial Education and Technology

William R. Grise, assistant professor (1994), Ph.D.,  
University of Texas  
Robert T. Hayes, associate professor (1974), M.A.,  
Eastern Kentucky University  
Dennis Karwatka, professor (1970), M.S., Indiana State University  
Wayne A. Morella, professor (1971), Ph.D., Southern Illinois University  
Edward G. Nass, associate professor (1963), M.S.Ed.,  
Northwestern State College of Louisiana  
W. Charles Patrick, associate professor (1985), Ph.D.,  
Virginia Polytechnic Institute and State University  
James E. Smallwood, associate professor (1988), Ph.D.,  
Indiana State University  
Ronald Spangler, associate professor (1987), Ph.D.,  
University of Kentucky  
Rodney B. Stanley, associate professor (1986), Ed.D.,  
University of Kentucky  
Ronald Tucker, professor (1968), Ed.D., Oklahoma State University  
Ahmad Zargari, assistant professor (1994), Ph.D.,  
Bowling Green State University

## Department of Mathematical Sciences

Dora Cardenas Ahmadi, assistant professor (1995), Ph.D.,  
University of Oklahoma  
Vivian Flora Cyrus, assistant professor (1994), Ph.D.,  
University of Kentucky  
Charles Rodger Hammons, professor (1971), Ph.D.,  
University of Kentucky  
Lloyd R. Jaisingh, professor (1985), Ph.D., Texas Tech University  
Thomas J. Klein, associate professor (1992), Ed.D.,  
Vanderbilt University  
Tabitha Mingus, assistant professor (1997), Ph.D.,  
University of Northern Colorado  
Gordon Nolen, associate professor (1967), M.S., University of Kentucky  
Ted M. Pack, instructor (1980), AMED, Morehead State University  
Randy K. Ross, associate professor (1986), M.A., Marshall University  
Joyce Saxon, assistant professor (1964), M.A.,  
Morehead State University  
Daniel L. Seth, associate professor (1991), Ph.D.,  
Texas Tech University  
Donald E. Spickler, Jr., assistant professor (1997), Ph.D.,  
University of Virginia  
Jamie Summerville, assistant professor (1997), Ph.D.,  
University of Mississippi

## Department of Nursing and Allied Health Sciences

Alta Blair, associate professor (1984), M.S.N., University of Tennessee  
Mattie Burton, assistant professor (1996), M.S.N.,  
University of Kentucky  
Cheryl Clevenger, assistant professor (1990), M.S.N.,  
University of Kentucky  
Marcia J. Cooper, assistant professor (1994), M.S.R.T. (R)(M) ARRT,  
RDMS, Midwestern State University  
Donna Corley, assistant professor (1992), M.S.N.,  
University of Kentucky  
Jacklynn K. Darling, associate professor (1979), M.S., R.T. (R) ARRT  
Morehead State University  
Yan Duan, assistant professor (1997), M.S.N., University of Manitoba  
Barbara L. Dehner, associate professor (1992), M.S.R.T. (R) ARRT  
Midwestern State University  
Cynthia Gibbs, associate professor (1990), M.A.R.T. (R) ARRT,  
Morehead State University  
Denise Goldy, assistant professor (1990), M.S.N.,  
University of Kentucky

Wretha Goodpaster, assistant professor (1998), M.S.R.T., (R) ARRT,  
Midwestern State University  
Janet Gross, professor (1983), D.S.N.,  
University of Alabama at Birmingham  
Freda Kilburn, professor (1985), D.S.N.,  
University of Alabama at Birmingham  
Marsha Clay Lewis, assistant professor (1990), M.S.N.,  
University of Kentucky  
Barbara McKinney, assistant professor (1998), M.S.N.,  
University of Kentucky  
Linda McNabb, assistant professor (1989), B.S.N.,  
University of Kentucky  
Lucille Mays, assistant professor (1990), M.S.N.,  
University of Kentucky  
Betty M. Porter, professor (1971), Ed.D., University of Kentucky  
Shelby Shires, assistant professor (1993), M.S.N., Bellarmine College  
Brenda Wilburn, assistant professor (1992), M.S.N., Marshall University

### Clinical Faculty

Steve Brashear, R.T. (R) ARRT, (Methodist Hospital of Kentucky)  
Markey Carpenter, R.T. (R) AART, (Fleming County Hospital)  
Matthew Caudill, R.T. (R) ARRT, (Highlands Regional Medical Center)  
Melissa Cornett, R.T. (R) ARRT, (Mary Chiles Hospital)  
Bobby Cox, R.T. (R) ARRT, (ARH Regional Medical Center)  
Emma Esker, R.T. (R) ARRT, (Pattie A. Clay Hospital)  
Jeff Fannin, R.T. (R) ARRT, (St. Claire Medical Center)  
Jamie Williams, R.T. (R) ARRT, (ARH Regional Medical Center)  
Ruth Guilbault, R.T. (R) ARRT, (Pattie A. Clay Hospital)  
David Leach, R.T. (R) ARRT (Morgan County ARH)  
Melissa K. Malone, R.T.(R) ARRT  
(Meadowview Regional Medical Center)  
John Meade, R.T.(R) ARRT, (Highlands Regional Medical Center)  
Jackie Cummins, R.T. (R) ARRT,  
(Lake Cumberland Regional Medical Center)  
Rayette Potter, R.T. (R) ARRT, (St. Claire Medical Center)  
Stephanie Estep, R.T.(R) ARRT, (Frankfort Regional Medical Center)  
Leslie Wellman, R.T. (R) ARRT, (Three Rivers Hospital)

## Department of Physical Sciences

### Chemistry

Zexia K. Barnes, associate professor (1988), Ph.D.,  
Michigan State University  
H. Wade Cain, associate professor (1982), Ph.D., Auburn University  
Herbert C. Hedgecock Jr., assistant professor (1980), Ph.D.,  
University of Tennessee  
Richard L. Hunt, associate professor (1980), Ph.D.,  
University of Chicago

### Geosciences

Marshall Chapman, assistant professor (1997), Ph.D.,  
University of Massachusetts  
Charles E. Mason, assistant professor (1983), M.S.,  
George Washington University  
Steven K. Reid, associate professor, (1992), Ph.D.,  
Texas A&M University

### Physics

David R. Cutts, professor (1968), Ph.D., University of Tennessee  
Brian W. Raichle, assistant professor (1998), Ph.D.,  
North Carolina State University  
Charles J. Whidden, professor (1968), Ph.D.,  
Virginia Polytechnic Institute and State University  
Capp D. Yess, assistant professor (1997), Ph.D., University of Kansas

### Science Education

Robert D. Boram, assistant professor (1991), Ph.D.,  
University of Oklahoma  
Ronald L. Fiel, professor (1972), Ed.D., Indiana University  
Benjamin K. Malphrus, associate professor (1990), Ed.D.,  
West Virginia University  
Joan M. Whitworth, assistant professor (1995), Ph.D.,  
University of Colorado

## Athletics

### Coaches

Rex Chaney, golf coach (1961), R.Ed., Indiana University  
Robert Meadows, women's tennis coach (1997), Ph.D.,  
Kent State University  
Jace Nathanson, men's tennis coach (1984), J.D., Syracuse University  
Kyle Macy, head men's basketball coach (1997), BBA,  
University of Kentucky  
Wayne Breeden, assistant men's basketball coach (1997), M.S.,  
University of Kentucky  
Darrin Horn, assistant men's basketball coach (1997), B.A.,  
Western Kentucky University  
Dan Lindsey, track/cross country coach (1987), M.A.,  
Morehead State University  
Matt Ballard, head football coach (1994), M.A., Georgetown College  
Miles Brandon, assistant football coach (1995), B.S., Urbana University  
Jeff Durden, assistant football coach (1995), M.A.,  
West Georgia College  
John Gilliam, assistant football coach (1994), M.A.,  
Morehead State University  
David Trosper, assistant football coach (1997),  
Laura Litter, head women's basketball coach (1997), M.A.,  
Morehead State University  
Corbett Grigsby, assistant women's basketball coach (1997), B.A.,  
Morehead State University  
James Black, assistant women's basketball coach (1997), M.S.,  
Tusculum College  
Jennifer VanSickle, women's softball coach (1993), M.A.,  
Morehead State University  
John Jarnagin, head baseball coach (1995), M.S.,  
Middle Tennessee State University  
Leslie Faber, women's soccer coach (1998), B.S.,  
East Texas State University  
John DoRosario, assistant athletic trainer (1995), M.S.,  
University of Louisville  
Walter Rybka, head rifle coach (1996), M.A.,  
Eastern Michigan University  
Michael Swan, women's volleyball coach (1998), B.S.,  
Manchester College  
Ryan Kling, athletic trainer (1993), M.A., University of Tulsa

## Camden-Carroll Library

Larry X. Besant, Director of Libraries (1985), M.S.L.S.,  
University of Illinois  
Gary Austin, librarian I (1996), M.L.I.S., University of Hawaii  
William DeBord, librarian II (1989), M.S.L.S., University of Kentucky  
Gary Flanagan, librarian II (1990), M.S.L.S., University of Kentucky  
Juanita J. Hall, librarian IV, assistant professor of curriculum and  
instruction (1966), M.L.S., University of Kentucky  
Clara Keyes, librarian IV (1987), M.S.L.S., University of Kentucky  
Thomas P. Kmetz, librarian I (1997), M.S.L.S., University of Illinois  
Julia Lewis, librarian I (1994), M.S.L.S., University of Kentucky  
Linda Lowe, librarian II (1979), M.S.L.S., University of Kentucky  
Alton B. Malone, librarian III (1976), M.S.L.S., University of Illinois  
Carol Nutter, librarian IV, (1978), M.S.L.S., University of Kentucky  
Elsie Pritchard, librarian IV, (1982), M.L.S., University of Pittsburgh  
Helen Williams, librarian IV, instructor of information sciences (1978),  
M.S.L.S., University of Kentucky  
Betty Jean Wilson, librarian IV (1976), M.S.L.S.,  
University of Kentucky

## Faculty Emeriti

- John Alcorn, associate professor of accounting  
 David L. Anderson, associate professor of music  
 Mary T. Anderson, assistant professor of education, supervising teacher  
 Reedus Back, professor of education  
 Mabel Barber, assistant professor of psychology  
 Woodrow W. Barber, associate professor of biology  
 Anne T. Beane, instructor of music  
 James Beane, associate professor of music  
 Joe F. Bendixen, professor of agriculture  
 Earl Bentley, professor of health, physical education and recreation  
 Ray Bernardi, professor of business education  
 M. Adele Berrian, professor of psychology  
 William M. Bigham, professor of music  
 Jack E. Bizzel, professor of government  
 Harold Leo Blair, associate professor of music  
 Bill Booth, professor of art  
 James Bragg, associate professor of music  
 Russell M. Brengelman, professor of physics  
 W. Michael Brown, associate professor of health, physical education and recreation  
 David M. Brumagen, professor of biology  
 Janice Brumagen, associate professor of nursing  
 Roland Burns, professor of geography  
 Fred M. Busroe, associate professor of biology  
 Glenna Campbell, associate professor of English  
 Rodger Carlson, professor of marketing  
 Rex Chaney, associate professor of health, physical education and recreation  
 Betty M. Clarke, assistant professor of English  
 William Clark, professor of geography  
 L. Bradley Clough, professor of psychology  
 Dorothy Conley, assistant professor of elementary education  
 Gary C. Cox, professor of geography  
 Lola Crosthwaite, associate professor of social work  
 Larry Dales, assistant professor of journalism  
 Richard Daniel, professor of education  
 Bernard Davis, Kilpatrick professor of banking  
 Paul Ford Davis, professor of education  
 Anna Lee Demaree, professor of psychology  
 Charles Derrickson, professor of agriculture  
 G. Ronald Dobler, professor of English  
 Adron Doran, president emeritus  
 Mignon Doran, director emeritus of Personal Development Institute  
 Gretta Duncan, assistant professor of education  
 John R. Duncan, professor of education  
 Johnson E. Duncan, professor of music  
 Maurice E. Esham, professor of science  
 Thelma B. Evans, assistant professor of education  
 Carolyn Flatt, assistant professor of PDI  
 Donald Flatt, professor of history  
 Ben Flora, professor of mathematics  
 Jerry Franklin, assistant professor of education  
 Johnnie G. Fryman, associate professor of mathematics  
 E. Glenn Fulbright, professor of music  
 Carol Ann Georges, assistant professor of education  
 Shirley Gish, professor of speech  
 James Gotsick, professor of psychology  
 Robert Gould, professor of geography  
 John Graham, assistant professor of accounting  
 Oval Hall, assistant professor of education  
 Bernard G. Hamilton, assistant professor of German  
 Coleene Hampton, instructor of education  
 Katherine Herzog, associate professor of education  
 Charles Hicks, professor of education  
 Edmund Hicks, professor of history  
 Charles Holt, professor of history  
 Ryan Howard, professor of art  
 Victor Howard, professor of history  
 Bernice Howell, instructor of education  
 Jerry F. Howell, Jr., professor of biology  
 David K. Hylbert, professor of geoscience  
 Broadus Jackson, professor of history  
 Glenn Johnston, professor of mathematics  
 Charlie L. Jones, associate professor of mathematics  
 Roger Jones, professor of art  
 John Kleber, professor of history  
 Allen Lake, associate professor of biology  
 Joyce Lemaster, associate professor of English  
 Perry E. LeRoy, professor of history  
 Robert J. Lindahl, professor of mathematics  
 Noah Logan, associate professor of education  
 Earle Louder, professor of music  
 Sue Luckey, professor of business education  
 Louis Magda, professor of economics  
 Hildreth Maggard, instructor of English  
 Nell Mahaney, assistant professor of mathematics  
 Frank M. Mangrum, professor of philosophy  
 James D. Mann, associate professor of mathematics  
 Jose M. Maortua, professor of art  
 James C. Martin, associate professor of agriculture  
 Elizabeth E. Mayo, associate professor of mathematics  
 Robert Meadows, professor of management  
 Rodney Don Miller, professor of education  
 Dixie M. Moore, assistant professor of mathematics  
 Ethel J. Moore, assistant professor of Latin  
 Thomas Morrison, professor of economics  
 Edward Morrow, assistant professor of English  
 Olga Mourino, professor of Spanish  
 Frederick A. Mueller, professor of music  
 Elizabeth Nesbitt, assistant professor of health, physical education, and recreation  
 Howard Nesbitt, professor of health, physical education, and recreation  
 Hazel Nollau, assistant professor of education  
 Helen Northcutt, assistant professor of business education  
 John W. Oakley, assistant professor of sociology  
 Rose Orlich, professor of English  
 Francis Osborne, professor of psychology  
 Gretta Gaye Osborne, assistant professor of health, physical education and recreation  
 James Osborne, assistant professor of health, physical education and recreation  
 Gail Ousley, assistant professor of business education  
 Margaret Patton, associate professor of sociology  
 Charles A. Payne, professor of chemistry  
 John W. Payne, professor of education  
 Essie C. Payne, assistant professor of English  
 Lamar B. Payne, professor of chemistry  
 Charles J. Pelfrey, professor of English  
 Robert E. Peters, associate professor of education  
 John C. Philley, professor of geoscience  
 Tony C. Phillips, associate professor of chemistry  
 Bill B. Pierce, professor of marketing  
 Roscoe H. Playforth, professor of sociology and dean of the School of Social Sciences  
 Sibbie Playforth, assistant librarian  
 James Powell, professor of education  
 Mary Powell, professor of education  
 Madison E. Pryor, professor of biology  
 James Quisenberry, professor of speech  
 Paul A. Raines, professor of health, physical education, and recreation  
 C. Victor Ramey, associate professor of science  
 Diane Ris, professor of education  
 Meade Roberts, professor of industrial education  
 James R. Robinson, assistant professor of geography  
 Harold Rose, professor of education  
 Adolfo E. Ruez, associate professor of Spanish  
 Layla Sabie, professor of education

Mohammed Sabie, professor of health, physical education and recreation  
George Sadler, associate professor of health, physical education, and recreation  
Joe D. Sartor, associate professor of art  
Howard L. Setser, professor of biology  
Violet Cavell Severy, assistant professor of music  
Stuart Sprague, professor of history  
John K. Stetler, associate professor of music  
Lucretia M. Stetler, associate professor of music  
Lawrence R. Stewart, professor of education  
Stellarose M. Stewart, instructor of education  
Harry Sweeney, associate professor of health, physical education and recreation  
George Tapp, professor of psychology  
Carolyn Taylor, associate professor of human sciences  
Stephen S. Taylor, professor of education  
Dan S. Thomas, professor of education  
M. K. Thomas, professor of English  
Charles Thompson, professor of health, physical education, and recreation  
Pepper Tyree, assistant professor of industrial education and technology  
Vasile Venettozzi, professor of music  
Randall Wells, professor of education  
Sue Wells, assistant professor of education  
Mont Whitson, professor of sociology  
Patsy Whitson, associate professor of social work  
Clarica Williams, associate professor of library science  
Mariam Williams, associate professor of education  
Jack Wilson, professor of speech  
Clark D. Wotherspoon, professor of education  
Don B. Young, assistant professor of art  
Stephen Young, professor of education

### 13KAR 2:045. Determination of residency status for admission and tuition assessment purposes.

RELATES TO: KRS Chapter 13B, 164.020, 164.030, 164A.330(9)

STATUTORY AUTHORITY: KRS 164.020(8)

**NECESSITY, FUNCTION, AND CONFORMITY:** KRS 164.020(8) requires the Council on Postsecondary Education to determine tuition and approve the minimum qualifications for admission to the public institutions of higher education and authorizes the Council to set different tuition amounts for residents and nonresidents of Kentucky. This administrative regulation establishes the procedure and guidelines for determining the residency status of a student who is seeking admission to, or who is enrolled at, a public institution of higher education and for each student residency determination.

**Section 1. Definitions.** (1) "Academic term" means a division of the school year during which a course of studies is offered, and includes a semester, quarter, or summer term as defined by the institution.

(2) "Continuous enrollment" means enrollment in a state-supported college or university at the same degree level for consecutive terms, excluding summer term, since the beginning of the period for which continuous enrollment is claimed unless a sequence of continuous enrollment is broken due to extenuating circumstances beyond the student's control, including serious personal illness or injury, or illness or death of a parent.

(3) "Degree level" means enrollment in a course or program which could result in the award of a: (a) Baccalaureate degree or lower including enrollment in a course by a nondegree seeking postbaccalaureate student;

(b) Graduate degree or graduate certification other than a first-professional degree in law, medicine, dentistry or "Pharm.D"; or

(c) Professional degree in law, medicine, dentistry, or "Pharm.D".

(4) "Demonstration of Kentucky domicile and residency" means the presentation of documented information and evidence sufficient to prove by preponderance of the evidence that a person is domiciled in Kentucky and is a resident of Kentucky.

(5) "Dependent person" means a person who cannot demonstrate financial independence from parents or persons other than a spouse and who does not meet the criteria established in Section 5 of this administrative regulation.

(6) "Determination of residency status" means the decision of a college or university and a subsequent decision by the Council on Postsecondary Education including an administrative hearing, if appropriate, that results in the classification of a person as a Kentucky resident or as a nonresident for admission and tuition assessment purposes.

(7) "Domicile" means a person's true, fixed, and permanent home and is the place where the person intends to remain, and to which the person expects to return if absent without intending to establish a new domicile elsewhere.

(8) "Full-time employment" means employment for at least forty-eight (48) weeks at an average of at least thirty (30) hours per week.

(9) "Independent person" means a person who demonstrates financial independence from parents or persons other than a spouse and who can meet the criteria established in Section 5 of this administrative regulation.

(10) "Institution", "institution of higher education", or "college" means all entities offering instruction and conferring degrees or diplomas beyond the secondary school level, including four (4) year colleges or universities, two (2) year institutions including community colleges, and postsecondary vocational-technical schools, if the type of institution is not expressly stated.

(11) "Kentucky residency" or "Kentucky resident" means the result of a determination by an institution that a person is a resident of Kentucky for the purpose of tuition assessment and for the purpose of admission to the institution, if applicable.

(12) "Nonresident" means a person who is domiciled outside of Kentucky or who currently maintains legal residence outside Kentucky or who has not met the criteria for Kentucky residency established in this administrative regulation.

(13) "Preponderance of the evidence" means the greater weight of evidence, or evidence which is more credible and convincing to the mind.

(14) "Parent" means one (1) of the following: (a) A person's father or mother; or

(b) A court-appointed legal guardian recognized by an appropriate court within the United States if there was a relinquishment of the rights of the parents independent of a guardianship established primarily to confer Kentucky residency on the person.

(15) "Residence" or "residency" means the place of abode of a person and the place where the person is physically present most of the time for a noneducational purpose in accordance with Section 3 of this administrative regulation.

(16) "Sustenance" means living expenses including room, board, maintenance, transportation, and educational expenses including tuition, fees, books, and supplies.

**Section 2. Scope.** (1) Public institutions of higher education were established and are maintained by the Commonwealth of Kentucky primarily for the benefit of qualified residents of Kentucky. The substantial commitment of public resources to higher education is predicated on the proposition that the state benefits significantly from the existence of an educated citizenry. As a matter of policy, access to higher education shall be provided so far as feasible at reasonable cost to bona fide residents of the state.

(2) The Council on Postsecondary Education requires a student who is neither domiciled in nor a resident of Kentucky to meet higher admission standards and to pay a higher level of tuition than resident students.

(3) This administrative regulation applies to all student residency determinations regardless of circumstances, including the Southern Regional Education Board contract spaces and academic common market programs.

### Section 3. Determination of Residency Status; General Rules.

(1) A determination of residency shall include: (a) An initial determination of residency status by a college or university at the time of admission for a specific academic term;

(b) Each administrative and residency review committee determination made by an institution;

(c) A reconsideration of a determination of residency status by the institution based upon a changed circumstance;

(d) An intermediate review by the Appeals Officer of the Council on Postsecondary Education if requested by the students; and

(e) An administrative hearing conducted in accordance with the provisions of KRS Chapter 13B and 13 KAR 2:070, if requested by the student.

(2) (a) An initial determination of residency status shall be based upon the facts in existence when the credentials established by an institution for admission for a specific academic term have been received and during the period of review by the institution;

(b) An initial determination of residency status shall be based on:

1. Information derived from admissions materials;
2. Other materials required by an institution and which are consistent with this administrative regulation; or
3. Other information available to the institution.

(3) An individual seeking a determination of Kentucky residency status shall demonstrate that status by a preponderance of the evidence.

(4) A determination of residency status shall be based upon verifiable circumstances or actions.

(5) Evidence and information cited as the basis for Kentucky domicile and residency shall accompany the application for a determination of residency status.

(6) A student classified as a nonresident shall retain that status until the student is officially reclassified by the institution or the Council on Postsecondary Education, as appropriate.

(7) A student may apply for a review of a determination of residency status once for each academic term.

(8) If an institution has information that a student's residency status may be incorrect, the institution shall review and determine the student's correct residency status.

(9) If the Council on Postsecondary Education has information that an institution's determination of residency status for a student may be incorrect, it may require the institution to review the circumstances and report the results of that review.

(10) An institution shall impose a penalty or sanction against a student who give incorrect or misleading information to an institutional official, including: (a) Criminal prosecution;

(b) Student discipline by the institution through a policy written and disseminated to students; or

(c) Payment of nonresident tuition for each academic term for which resident tuition was assessed based on an improper determination of residency status.

**Section 4. Presumptions Regarding Residency Status.** (1) In making a determination of residency status, it shall be presumed that a person is a nonresident if: (a) A person is, or seeks to be, an undergraduate student and whose admissions records show the student to be a graduate of an out-of-state high school;

(b) A person's admission records indicate the student's residence to be outside of Kentucky at the time of application for admission;

(c) A person moves to Kentucky primarily for the purpose of enrollment in an institution of higher education;

(d) A person moves to Kentucky and within twelve (12) months enrolls in an institution of higher education more than half time; or

(e) A person has a continuous absence of one (1) year from the state.

(2) A presumption arising from subsection (1) of this section shall be overcome by a demonstration of Kentucky domicile and residency.

**Section 5. Determination of Whether a Student is a Dependent or Independent.** (1) In a determination of residency status, an institution shall first determine whether a student is dependent or independent.

(2) In determining the dependent or independent status of a person, the following information shall be considered as well as other relevant information available at the time the determination is made: (a) That the person has not been claimed as a dependent on the federal or state tax returns of a parent or other person for the year preceding the date of application for a determination of residency status; or

(b)1. That the person is no longer claimed by a parent or other person as a dependent or as an exemption for federal and state tax purposes; and

2. That the person has financial earnings and resources independent of both parents or a person other than a spouse necessary to provide for the person's own sustenance.

(3) An individual who enrolls in college immediately following graduation from high school and remains enrolled shall be presumed to be a dependent person unless the contrary is evident from the information submitted.

(4) Domicile may be inferred from the student's permanent address, parent's mailing address, or location of high school of graduation.

(5) Marriage to a person domiciled in and who is a resident of Kentucky shall be a factor considered by an institution in determining whether a student is dependent or independent.

**Section 6. Effect of a Determination of Dependent or Independent Status on a Determination of Residency Status.** (1) The effect of a determination that a person is dependent shall be as follows:

(a) The domicile and residency of a dependent person shall be the same as either parent. The domicile and residency of the parent shall be determined in the same manner as the domicile and residency of an independent person.

(b) The domicile and residency of a dependent person whose parents are divorced, separated, or otherwise living apart shall be a resident of Kentucky if either parent is domiciled in and is a resident of Kentucky regardless of which parent has legal custody or is entitled to claim that person as a dependent pursuant to Kentucky income tax provisions.

(c)1. If the parent or parents of a dependent person are Kentucky residents and are domiciled in Kentucky but subsequently move from the state, the dependent person shall be considered a resident of Kentucky

while in continuous enrollment at the degree level in which currently enrolled.

2. If continuous enrollment is broken or the current degree level is completed, the dependent person's residency status shall be reassessed when the circumstances detailed in subparagraph 1 of this paragraph are present.

(2) If an independent person, the sole parent, or both parents of a dependent person moves out of state, Kentucky domicile and residency, having been previously established, shall be retained until steps are taken to establish domicile and residency elsewhere.

**Section 7. Member of Armed Forces of the United States, Spouse and Dependents; Effect on a Determination of Residency Status.** (1) A member, spouse, or dependent of a member whose domicile and residency was Kentucky at the time of induction into the Armed Forces of the United States, and who maintains Kentucky as home of record and permanent address, shall be entitled to Kentucky residency status: (a) During the time of active service; and

(b) If the member, spouse, or dependent returns to this state within six (6) months of the date of the member's discharge from active duty.

(2) (a) A member, spouse or dependent of a member of the Armed Forces of the United States stationed in Kentucky on active military orders shall be considered a Kentucky Resident while the member is on active duty in this state pursuant to those orders if the member is not:

1. Stationed in Kentucky for the purpose of enrollment at an institution of higher education; or

2. On temporary assignment of less than one (1) year.

(b) A member, spouse or dependent of a member, shall not lose Kentucky residency status if the member is thereafter transferred on military orders while the member, spouse or dependent requesting the status is in continuous enrollment at the degree level in which currently enrolled.

(3) A person's residency status established pursuant to this section shall be reassessed if the qualifying condition is terminated.

**Section 8. Status of Nonresident Aliens; Visas and Immigration.** (1) (a) A person holding a permanent residency visa or classified as a political refugee shall establish domicile and residency in the same manner as another person.

(b) Time spent in Kentucky and progress made in fulfilling the conditions of domicile and residency prior to obtaining permanent status shall be considered in establishing Kentucky domicile and residency.

(2) A person holding a nonimmigrant visa with designation A, E, G, H, I, L, N, O, P, R, S, TD or TN shall establish domicile and residency the same as another person.

(3) (a) A person holding a nonimmigrant visa with designations B, C, D, F, J, K, M, or Q shall not be classified as a Kentucky resident, because that person does not have the capacity to remain in Kentucky indefinitely.

(b) A person holding a visa as described in paragraph (a) of this subsection, but who is a dependent of a parent holding a visa as described in subsection (2) of this section, shall be considered as holding the visa of the parent.

**Section 9. Beneficiaries of a Kentucky Educational Savings Plan Trust.** A beneficiary of a Kentucky Educational Savings Plan Trust shall be granted residency status if the beneficiary meets the requirements of KRS 164A.330(9).

**Section 10. Criteria Used in a Determination of Residency Status.** (1) A determination of Kentucky domicile and residency shall be based upon verifiable circumstances or actions. A single fact shall not be paramount, and each situation shall be evaluated to identify those facts which are essential to the determination of domicile and residency.

(2) The following facts, although not conclusive, shall have probative value in their entirety and shall be individually weighted, appropriate to the facts and circumstances in each determination of residency: (a) Acceptance of an offer of full-time employment or transfer to an employer in Kentucky or contiguous area while maintaining domicile in Kentucky;

(b) Continuous physical presence in Kentucky while in a nonstudent status for the twelve (12) months immediately preceding

commencement of the academic term for which a classification of Kentucky residency is sought;

(c) Filing of Kentucky resident income tax return for the calendar year preceding the date of application for a change in residency status or payment of Kentucky withholding taxes while employed during the calendar year for which a change in classification is sought;

(d) Full-time employment of at least one (1) year while living in Kentucky;

(e) Attendance as a full-time, nonresident student at an out-of-state institution of higher education based on a determination by that school that the person is a resident of Kentucky;

(f) Abandonment of a former domicile or residence and establishing domicile and residency in Kentucky with attendance at an institution of higher education following and incidental to the change in domicile and residency;

(g) Obtaining licensing or certification for a professional and occupational purpose in Kentucky;

(h) Payment of real property taxes in Kentucky;

(i) Ownership of real property in Kentucky, if the property was used by the student as a residence preceding the date of application for a determination of residency status;

(j) Long-term lease of at least twelve (12) consecutive months of noncollegiate housing;

(k) Marriage of an independent student to a Kentucky resident;

(l) Kentucky automobile registration;

(m) Kentucky driver's license;

(n) Continued presence as a resident in Kentucky during academic breaks; and

(o) Registration as a Kentucky voter.

(3) Kentucky residency status shall not be conferred by the performance of an act which is incidental to fulfilling an educational purpose or by an act which is performed as a matter of convenience. Mere physical presence in Kentucky, including living with a relative or friend, shall not be sufficient evidence of domicile and residency.

**Section 11. Effect of a Change in Circumstances on Residency Status.** (1) If a person becomes independent or if the status of a parent or parents of a dependent person changes, the institution shall reassess residency either upon a request by the student or a review initiated by an institution.

(2) Upon transfer to, or matriculation from, a Kentucky public institution of higher education, a student's residency status shall be reassessed by the receiving institution.

(3) A reconsideration of a determination of residency status for a dependent person shall be subject to the provisions for continuous enrollment.

**Section 12. Institutional Requirements: Designation of Office and Officer and Publication of the Administrative Regulation.** (1)

Each institution shall designate: (a) A person or office at the institution with responsibility for a determination of residency status at that institution; and

(b) An administrative office or person with delegated day-to-day responsibility for administration of this administrative regulation.

(2) The designation of an administrative office or person pursuant to subsection (1) of this section shall be in writing setting forth the duties and responsibilities. A copy shall be provided to the Council on Postsecondary Education.

(3) Each institution shall establish an operational policy for the determination of residency status which shall be filed with the Council on Postsecondary Education and which shall include: (a) Procedures describing the steps in the initial determination of residency status;

(b) Designated responsibilities of each institutional official;

(c) Responsibilities of a person requesting admission to the institution or a change in residency status;

(d) Procedures for the operation of a residency review committee created pursuant to Section 13 of this administrative regulation;

(e) Timetables and deadlines for student and institutional responses to a request for a review of an institutional determination of residency status;

(f) Training of institutional officials responsible for a determination of residency status; and

(g) The role of the residency review committee.

(4) The administrative regulation shall be published in its entirety in all of each institution's catalogs and disseminated to each student.

(5) Copies of the administrative regulation shall be maintained in the office designated pursuant to subsection (1) of this section and shall be made available to each student requesting Council on Postsecondary Education review of an institution's initial determination, review or reconsideration of residency status.

**Section 13. Establishment of a Residency Review Committee by an Institution.** (1) Each institution shall establish a residency review committee, which shall be a standing committee, to review, evaluate, and act upon: (a) A student appeal related to an initial determination of residency status;

(b) A recommendation of the administrative office or person designated pursuant to Section 12 of the administrative regulation, that the residency review committee review, evaluate, and act upon an initial determination of residency status; and

(c) A student request for a reconsideration of a residency classification because of a changed circumstance.

(2) Membership on the residency review committee shall include at least one (1) faculty and one (1) student member.

(3) The policies and procedures of an institution's residency review committee shall be in writing and published for student use.

(4) A copy of the document authorizing and creating an institution's residency review committee, and a copy of the operating policies and procedures of the residency review committee shall be provided to the Council on Postsecondary Education.

**Section 14. Student Responsibilities.** (1) A student shall register under the proper residency classification which includes the following actions: (a) Raising a question in a timely manner concerning residency classification;

(b) Making application for change of residency classification in a timely manner with the designated office or person at the institution; and

(c) Notifying the designated office of person at the institution immediately upon a change in residency.

(2) If a student fails to notify an institutional official of a change in residency, an institutional official may investigate and evaluate the student's current residency status.

(3) (a) If a student fails to provide, in a timely manner, information required by an institution in a determination of residency status or by the Council on Postsecondary Education in an appeal of a determination of residency status, the student shall be notified by the institution or by the Council on Postsecondary Education, as appropriate, that the review has been canceled and that a determination has been made.

(b) Notification shall be made by registered mail, return receipt requested.

(c) Notification shall be made within ten (10) calendar days after the deadline for receipt of materials has passed.

(4) A student shall not appeal a determination of residency status made by an institution or by the Council on Postsecondary Education for a failure to meet published deadlines for the submission of information as set forth in subsection (3) of this section. A student may request a review of a determination of residency status in a subsequent academic term.

**Section 15. Procedures for an Initial Determination of Residency Status, an Institutional Review of Residency Status and for a Reconsideration of a Determination of Residency Status.** (1) Application for a review of a determination of residency status shall be made to the administrative office or person designated by the institution pursuant to Section 12 of this administrative regulation.

(2) The application, with supporting documentation, shall be made by the student within thirty (30) calendar days after the first day of classes of the academic term for which a review of a determination of residency status is sought.

(3) An application shall consist of: (a) An affidavit authorized by the Council on Postsecondary Education and submitted by the student or the parent of a dependent student asserting the claim for a determination

of residency status and asserting that the documentation and information are accurate and true; and

(b) Information and documentation required by an institution and consistent with this administrative regulation which is necessary to substantiate a request for a change in a determination of residency status.

(4) (a) An application shall be first reviewed by the office or person designated by the institution pursuant to Section 12 of this administrative regulation.

(b) If a student asks, in writing and in a manner set forth by the institution consistent with this administrative regulation, to appeal the decision of the designated office or person, the residency review committee shall review, evaluate, and act upon that appeal.

(c) An application for a review of residency status which is not submitted in a timely manner, shall result in a determination of residency status consistent with an initial determination of residency status.

(5) The decision of the designated office or person, or of the residency review Committee shall include: (a) Findings of fact;

(b) Determination of whether the applicant is deemed to be a "dependent person" or "independent person"; and

(c) Whether the applicant is a resident or nonresident, and the reasons consistent with institutional policy and this administrative regulation.

(6) The student shall be notified in writing, by registered or certified mail, of the decision of the administrative officer designated by the institution or the residence review committee, as appropriate, within forty-five (45) calendar days after receipt of a person's application for a change.

(7) A change in a determination of residency shall not be made retroactive beyond the academic term in which the request for a change is made.

(8) A student shall have the right to appeal a decision of the residency review committee to the Council on Postsecondary Education pursuant to Sections 16, 17, and 18 of this administrative regulation.

(9) An institution shall, by written policy, establish deadlines for the submission of written documentation by a person seeking an initial determination of residency status and shall not consider an appeal which does not conform to the timetable requirement for documentation and process established in the institution's policy.

**Section 16. Procedure for Appeal to the Council on Postsecondary Education and Intermediate Review by the Council on Postsecondary Education Appeals Officer.** (1) The President of the Council on Postsecondary Education shall designate a person on the staff of the Council on Postsecondary Education to serve as an appeals officer.

(2) The appeals officer's review of an institutional determination of residency status shall be to determine whether the residency committee's written decision was supported by a preponderance of evidence and conformed to this administrative regulation.

(3) Upon receipt of notice from the residency review committee of the decision by certified or registered mail, the student shall have fourteen (14) calendar days to appeal that decision to the Council on Postsecondary Education by giving notice in writing to the office of person designated by the institution to administer this administrative regulation.

(4) An appeal filed more than fourteen (14) calendar days after receipt of the decision of the residency review committee shall be dismissed and the decision of the residency review committee shall be final.

(5) The office or person designated by the institution pursuant to Section 12 of this administrative regulation shall be responsible for forwarding to the Council on Postsecondary Education a complete copy of the student's file within fourteen (14) calendar days of the receipt of a notice of appeal. The student may review the content of the file before it is forwarded to the Council on Postsecondary Education.

**Section 17. Determination of the Council on Postsecondary Education Appeals Officer.** (1) The appeals officer shall make a determination, based solely on the written record submitted, to affirm or reverse the residency review committee's decision.

(2) The appeals officer may order the appeal remanded to the residency review committee for further proceedings before the appeals

officer renders a final determination if the appeals officer determines that the residency review committee: (a) Failed to consider all information and evidence submitted; or

(b) Failed to follow institutional policies and procedures.

(3) (a) New information provided by the student that was not available to the institution at the time of the institution's determination of residency status shall result in a decision by the appeals officer to remand the case to the residency review committee for further action.

(b) A remand by the appeals officer because of information not available at the time of the determination of residency status shall require the residency review committee to reconsider the determination of residency status in light of the new information.

(c) The residency review committee shall consider the new information or evidence and shall forward a written recommendation to the appeals officer within twenty-one (21) calendar days after receipt of the notice of remand.

(d) A copy of the residency review committee recommendation shall be provided to the student.

(e) A remand shall be part of the appeal to the Council on Postsecondary Education and shall not constitute a determination by the appeals officer.

(4) The determination of the appeals officer shall be in writing and shall state the reason for the decision.

(5) (a) Except as provided in paragraph (b) of this subsection, within twenty-one (21) calendar days after receipt of the student's file, the recommendation of the appeals officer shall be forwarded to the student by certified or registered mail with a copy to the office of person designated by the institution to administer this administrative regulation.

(b) If the appeals officer remands an appeal under subsection (2) of this section, the twenty-one (21) days shall not include the time the order was made until the time the residency review committee's written recommendation was received by the appeals officer.

(6) The student shall have ten (10) calendar days after receipt of the appeals officer's recommendation to file a written appeal by registered or certified mail with the Council on Postsecondary Education requesting a formal adjudicatory hearing pursuant to KRS Chapter 13B and 13 KAR 2:070.

**Section 18. Administrative Hearing to be Held If Requested by Student.** (1) An administrative hearing on a request for a change in a determination shall be held in accordance with the provisions of KRS Chapter 13B and 13 KAR 2:070/

(2) The recommended order shall be received by the President of the Council on Postsecondary Education who shall issue a final decision on the appeal: (a) The decision of the president shall be in writing and in accordance with KRS 13B.120.

(b) The decision of the president shall be provided to the student and the institution within twenty-one (21) calendar days after receipt of the hearing officer's decision.

(3) Upon receipt of the notification of the final decision of the president, the student shall have the right to appeal the decision to the appropriate court in accordance with KRS 13B.140.

**Section 19. Charges to Institutions for Administrative Hearings.** The Council on Postsecondary Education, upon receipt of a bill for the conduct of an administrative hearing on an appeal of the determination of residency status, shall assign one-half (1/2) of the cost of the administrative hearing to the institution from which the appeal is taken. The institution shall provide payment to the Council on Postsecondary Education or to the office or administrative entity so designated by the Council on Postsecondary Education within thirty (30) calendar days of receipt of the notice of payment. (17 Ky.R.2557; eff. 4-5-91; Am.22 Ky.R.1656; 1988; eff. 5-16-96; 23 Ky.R.3380; 3797; 4099; eff. 6-16-97.)

- Abbreviations  
     Course prefixes . . . . . 6  
     Degree . . . . . 17  
 Absence . . . . . 24  
 Academic Advising, Center for . . . . . 30  
 Academic Bankruptcy . . . . . 26  
 Academic Grievance . . . . . 27  
 Academic and Honor Organizations . . . . . 36  
 Academic Opportunities  
     Cooperative Education . . . . . 35  
     Correspondence Courses . . . . . 36  
     Government Symposia Leadership . . . . . 35  
     Honors Program . . . . . 36  
     Telecourses . . . . . 35  
 Academic Programs and Requirements  
     for Graduation . . . . . 17  
 Academic Regulations and Procedures . . . . . 23  
 Academic Success, Center for . . . . . 31  
 Academic Support Services . . . . . 30  
     Academic Advisement . . . . . 30  
     Advisor Assignment . . . . . 30  
     Advisor Contacts . . . . . 30  
 Academic Services . . . . . 30  
     Academic Advising, Center for . . . . . 30  
     Career Planning Classes . . . . . 31/34  
     Center for Academic Success . . . . . 31  
     Provisional Studies . . . . . 18/31  
     Readmitted/Academic Probation  
       Student Programs . . . . . 31  
     Services for Physical or Learning  
       Disabilities . . . . . 31  
     Student Support Services . . . . . 31  
     Study Skills Classes . . . . . 31  
     Tutoring Services/Learning Lab . . . . . 31  
     Writing Center . . . . . 31  
 Accounting (Program) . . . . . 40  
     Courses . . . . . 144  
 Accreditation and Memberships . . . . . i  
 Administrative Directory . . . . . 214  
 Admissions . . . . . 8  
     Auditors . . . . . 10  
     Freshman . . . . . 8  
     GED Recipients . . . . . 9  
     High School Students . . . . . 10  
     International Students . . . . . 9  
     Returning Students . . . . . 9  
     Special Students . . . . . 10  
     Transfer Students . . . . . 9  
     Visiting Student . . . . . 10  
 Admission Index . . . . . 16  
 Advanced Placement Program . . . . . 33  
 Advertising-Public Relations Emphasis  
     (Communications) . . . . . 78  
 Advisor Assignment . . . . . 30  
 Advisor Contacts . . . . . 30  
 Agribusiness Option . . . . . 98/101  
 Agriculture Courses . . . . . 145  
 Agriculture Economics Option . . . . . 98  
 Agricultural Education . . . . . 97  
 Agricultural Production Option . . . . . 101  
 Agricultural Sciences, Dept. of . . . . . 97  
 Agricultural Science (Programs) . . . . . 97  
     Agribusiness Option . . . . . 98/101  
     Agriculture Economics Option . . . . . 98  
     Agronomy Option . . . . . 99  
     Animal Science Option . . . . . 99  
     General Agriculture Option . . . . . 99  
     Golf Course Management Option . . . . . 99  
     Horticulture Option . . . . . 100  
     Major . . . . . 100  
     Minor . . . . . 100  
     Agricultural Technology . . . . . 100  
     Agribusiness Option . . . . . 101  
     Agricultural Production Option . . . . . 101  
     Equine Technology Option . . . . . 101  
     Ornamental Horticultural Option . . . . . 101  
 Agriculture-General Option . . . . . 99  
 Agronomy Option . . . . . 99  
 Alumni Association . . . . . 34  
 Animal Science Option . . . . . 99  
 Appendix . . . . . 220  
 Area, Definition of . . . . . 17  
 Art (Program) . . . . . 77  
     Courses . . . . . 148  
 Assessment . . . . . 22  
 Associate Degree . . . . . 17  
 Associate of Applied Business  
     Options . . . . . 47  
     Business Information Systems . . . . . 47  
 Athletics (Coaches) . . . . . 219  
 Athletic Training Program . . . . . 63  
 Attendance, Class . . . . . 24  
 Auditing Courses . . . . . 24  
 Bachelor of Business Administration . . . . . 39  
 Bachelor's Degree, Definition . . . . . 17  
 Bachelor's Degree Requirements . . . . . 19  
 Bankruptcy, Academic . . . . . 26  
 Biological and Environmental Sciences, Dept. of . . . . . 104  
 Biological Science Teaching . . . . . 106  
 Biology (Major) . . . . . 105  
     Courses . . . . . 150  
 Business, College of . . . . . 37  
     Accounting, Economics, and Finance  
       Dept. of . . . . . 40  
     Faculty . . . . . 215  
     Information Systems, Dept. of . . . . . 42  
     Management and Marketing, Dept. of . . . . . 48  
     National Advisory Board . . . . . 38  
 Business Information Systems (Programs)  
     Associate Degree . . . . . 47  
     Courses . . . . . 152  
 Business and Marketing Education . . . . . 43  
 Career Planning and Placement . . . . . 34  
 Catalog Validity . . . . . i  
 Certification, Teacher . . . . . 54  
 Change in Schedule . . . . . 23  
 Check Sheets . . . . . 19  
 Chemistry (Program) . . . . . 137  
     Courses . . . . . 153  
 Child Development Option . . . . . 115/118  
 Classification of Residence for Admission and Tuition  
     Assessment Purposes . . . . . 11  
 Classification, Student . . . . . 24  
 Coaching (Minor) . . . . . 63

|                                                    |     |                                                 |     |
|----------------------------------------------------|-----|-------------------------------------------------|-----|
| Communications, Department of                      | 78  | Sociology, Social Work, and                     |     |
| Courses                                            | 154 | Criminology, Dept. of                           | 71  |
| Minors                                             | 79  | Education Courses                               |     |
| Programs                                           | 78  | Adult and Higher                                | 161 |
| Computer Information Systems (Programs)            | 42  | Early Childhood                                 | 161 |
| Courses                                            | 157 | Elementary                                      | 162 |
| Option (Associate Degree)                          | 47  | Elementary and Middle Grades                    | 162 |
| Computer Resources                                 | 32  | Elementary (P-5)                                | 161 |
| Construction/Mining Technology                     |     | Elementary (5-9)                                | 162 |
| AAS Option                                         | 119 | Foundations                                     | 163 |
| BS Option                                          | 120 | Guidance and Counseling                         | 163 |
| Courses                                            | 159 | Professional                                    | 165 |
| Cooperative Education                              | 35  | Secondary                                       | 163 |
| Correspondence Courses                             | 36  | Special                                         | 163 |
| Counseling (also see Advising)                     | 30  | Electrical/Electronics Technology               |     |
| Courses (also see subject listings)                |     | AAS Option                                      | 119 |
| Abbreviations                                      | 6   | BS Option                                       | 120 |
| Absences                                           | 24  | Courses                                         | 165 |
| Attendance                                         | 24  | Electronic Media News Emphasis (Communications) | 79  |
| Auditing                                           | 24  | Electronic Media Production & Management        |     |
| Descriptions                                       | 143 | Emphasis (Communications)                       | 78  |
| Fees                                               | 11  | Elementary Education                            | 55  |
| Final Examinations                                 | 25  | Courses                                         | 162 |
| Grades                                             | 25  | Programs:                                       |     |
| Load                                               | 23  | Early Childhood Endorsement                     | 55  |
| Marking System                                     | 25  | Kindergarten Education Certification            | 55  |
| Numbering                                          | 24  | Early Elementary (P-5)                          | 56  |
| Pass-Fail                                          | 25  | Middle Grades (5-9)                             | 56  |
| Repeating                                          | 24  | English (Programs)                              | 81  |
| Schedule Change                                    | 23  | Courses                                         | 166 |
| Withdrawals                                        | 25  | English, Foreign Languages, and Philosophy,     |     |
| Criminology (Emphasis)                             | 73  | Dept. of                                        | 81  |
| Minor                                              | 73  | Entitlements                                    | 17  |
| Courses                                            | 159 | Environmental Science (Area)                    | 107 |
| Data Processing (see Computer Information Systems) |     | Minor                                           | 107 |
| Dean's List                                        | 26  | Equine Technology Option                        | 101 |
| Degrees (also see individual course listings)      |     | Exercise Science Option                         | 67  |
| Abbreviations                                      | 17  | Extended Campus and Distance Education Programs | 18  |
| Listing                                            | 1   | Distance Education                              | 18  |
| Requirements                                       | 19  | Extended Campus Centers                         | 18  |
| Second                                             | 22  | Regional Sites                                  | 18  |
| Dietetics Option                                   | 115 | Extended Campus Centers                         | 18  |
| Directories (Administrative/Faculty)               | 214 | Faculty Directory                               | 215 |
| Distance Education                                 | 18  | Faculty Emeriti                                 | 220 |
| Dual Degree (Three-Two Program)                    | 140 | Family Housing                                  | 11  |
| Early Childhood Education                          |     | Fashion Merchandising (Option)                  | 118 |
| Courses                                            | 161 | Minor                                           | 116 |
| Endorsement                                        | 55  | Fees                                            | 11  |
| Economics (Programs)                               | 41  | Housing                                         | 10  |
| Courses                                            | 160 | Registration Billings                           | 12  |
| Education and Behavioral Sciences,                 |     | Refunds                                         | 12  |
| College of                                         | 49  | Student Health Service                          | 12  |
| Elementary, Reading and Special                    |     | Tuition                                         | 12  |
| Education, Dept. of                                | 55  | Final Examinations                              | 25  |
| Faculty                                            | 215 | Finance (Programs)                              | 41  |
| Health, Physical Education, and                    |     | Courses                                         | 168 |
| Recreation, Dept. of                               | 63  | Financing Your Education                        | 13  |
| Leadership and Secondary Education,                |     | Financial Aid                                   | 16  |
| Dept. of                                           | 62  | Entitlements                                    | 17  |
| Military Science, Dept. of                         | 68  | Grants                                          | 16  |
| Programs                                           | 68  | Loans                                           | 16  |
| Psychology, Dept. of                               | 69  | Policies and Procedures                         | 14  |
|                                                    |     | Procedures for Appeal                           | 14  |

- Reinstatement . . . . . 14
- Satisfactory Academic Progress Requirements . . . . . 13
- Scholarships and Awards . . . . . 14
- Selective Service Registration Requirement . . . . . 13
- Work-study . . . . . 16
- Fine Arts Courses . . . . . 169
- Food Service Management Option . . . . . 118
- Foreign Languages (Programs)
  - French . . . . . 84
  - German . . . . . 85
  - Italian . . . . . 85
  - Latin . . . . . 85
  - Russian . . . . . 85
  - Spanish . . . . . 85
- Foreign Languages (Courses)
  - French . . . . . 169
  - German . . . . . 172
  - Italian . . . . . 184
  - Latin . . . . . 184
  - Russian . . . . . 205
  - Spanish . . . . . 208
- Foundations (Education) . . . . . 163
- French (Program) . . . . . 84
  - Courses . . . . . 169
- Full-time Students (Tuition) . . . . . 12
- GED Recipients . . . . . 9
- General Education Requirements
  - Associate Degree . . . . . 21
  - Bachelor's Degree . . . . . 19
- Geography (Programs) . . . . . 86
  - Courses . . . . . 170
- Geography, Government, and History,
  - Dept. of . . . . . 86
- Geology (Programs) . . . . . 138
- Geoscience Courses . . . . . 171
- German Courses . . . . . 172
- Golf Course Management Option . . . . . 99
- Government (Programs) . . . . . 87
  - Courses . . . . . 172
- Government Symposia and Internships . . . . . 35
- Grades . . . . . 25
  - Honors . . . . . 26
  - Marking System . . . . . 25
  - Pass-Fail . . . . . 25
  - Reports . . . . . 26
  - Scholastic Standing . . . . . 26
  - Transcripts . . . . . 26
- Graduation
  - Applying for Graduation . . . . . 23
  - Check Sheets . . . . . 19
  - Requirements for Degrees . . . . . 18
  - Requirements for Gen. Ed. Courses . . . . . 21
  - With Honors . . . . . 26
- Grants . . . . . 16
- Graphic Communications Technology
  - AAS Option . . . . . 119
  - BS Option . . . . . 121
  - Courses . . . . . 174
- Grievance Procedures, Academic . . . . . 27
- Guidance and Counseling Courses . . . . . 163
- Gulf Coast Research Laboratory . . . . . 112
- Health (Programs) . . . . . 63
  - Courses . . . . . 175
- Health, Physical Education, and Recreation,
  - Dept. of . . . . . 63
- Health Fee . . . . . 12
- Historical Preservation Option
  - (Human Sciences) . . . . . 118
  - (Human Sciences - Minor) . . . . . 118
  - (Industrial Technology) . . . . . 119
- History (Programs) . . . . . 88
  - Courses . . . . . 176
- Honors Courses . . . . . 177
- Honors Program . . . . . 36
- Horsemanship (Minor) . . . . . 102
- Horticulture Option . . . . . 100
- Hotel, Restaurant, and Institutional
  - Management Option . . . . . 116
- Housing . . . . . 10
  - Family Housing . . . . . 11
  - Residence Halls . . . . . 11
- Human Sciences, Dept. of . . . . . 112
  - Associate of Applied Science . . . . . 116
  - Bachelor of Science . . . . . 114
  - Child Development Option . . . . . 115/118
  - Courses . . . . . 178
  - Dietetics Option . . . . . 115
  - Fashion Merchandising Option . . . . . 118
  - Fashion Merchandising (Minor) . . . . . 116
  - Food Service Management Option . . . . . 118
  - Historical Preservation Option . . . . . 118
  - Historical Preservation (Minor) . . . . . 118
  - Hotel, Restaurant, and Institutional
    - Management Option . . . . . 116
  - Interdisciplinary Early Childhood Development . . . . . 112
  - Personal Development Institute . . . . . 118
  - Retail Merchandising and Design Option . . . . . 116
  - Vocational Family and Consumer Sciences . . . . . 113
- Humanities, Caudill College of . . . . . 75
  - Art, Dept. of . . . . . 77
  - Communications, Dept. of . . . . . 78
  - English, Foreign Languages, and
    - Philosophy, Dept. of . . . . . 81
- Faculty . . . . . 216
- Geography, Government, and
  - History, Dept. of . . . . . 86
- Music, Dept. of . . . . . 91
  - Programs . . . . . 76
- Industrial Education (Programs) . . . . . 118
  - Courses . . . . . 181
- Industrial Education and
  - Technology, Dept. of . . . . . 118
- Industrial Education
  - Orientation Exploration Option . . . . . 123
  - Preparation Level . . . . . 123
- Industrial Technology Programs . . . . . 118
  - Associate of Applied Science . . . . . 119
  - Bachelor of Science . . . . . 120
  - Construction/Mining Option . . . . . 119/120
  - Electrical/Electronics Option . . . . . 119/120
  - Graphic Communications Option . . . . . 119/121
  - Historical Preservation Option . . . . . 119
  - Major . . . . . 121
  - Manufacturing/Robotics Option . . . . . 119/121
- Information Sciences, Dept. of . . . . . 42
- Integrated Science Minor . . . . . 139

|                                                               |     |                                                               |     |
|---------------------------------------------------------------|-----|---------------------------------------------------------------|-----|
| Interdisciplinary Early Childhood Development . . . . .       | 112 | Paralegal Studies (Program) . . . . .                         | 89  |
| Interdisciplinary Early Childhood Education Courses . . . . . | 181 | Courses . . . . .                                             | 196 |
| Interdisciplinary Women's Studies . . . . .                   | 22  | Part-Time Students (Tuition) . . . . .                        | 12  |
| International Student Services . . . . .                      | 34  | Pass-Fail . . . . .                                           | 25  |
| Italian Courses . . . . .                                     | 184 | Peer Advising . . . . .                                       | 31  |
| Journalism Emphasis (Communications) . . . . .                | 79  | Personal Development Institute . . . . .                      | 118 |
| Kindergarten Education . . . . .                              | 55  | Courses . . . . .                                             | 196 |
| Latin Courses . . . . .                                       | 184 | Philosophy (Program) . . . . .                                | 86  |
| Learning and Behavior Disorders . . . . .                     | 57  | Courses . . . . .                                             | 198 |
| Learning Laboratory . . . . .                                 | 31  | Physical Education (Program) . . . . .                        | 65  |
| Library, Camden-Carroll . . . . .                             | 34  | Courses . . . . .                                             | 197 |
| Librarians . . . . .                                          | 219 | Physical or Learning Disabilities                             |     |
| Library Science and Instructional                             |     | Services for Students with . . . . .                          | 31  |
| Media Courses . . . . .                                       | 184 | Physical Sciences, Dept. of . . . . .                         | 137 |
| Load, Student Course . . . . .                                | 23  | Physical Science Teaching . . . . .                           | 141 |
| Loans . . . . .                                               | 16  | Physics (Programs) . . . . .                                  | 139 |
| Major, Definition . . . . .                                   | 16  | Courses . . . . .                                             | 199 |
| Management (Programs) . . . . .                               | 45  | Placement Services (see Career Planning and Placement)        |     |
| Courses . . . . .                                             | 184 | Pre-Chiropractic . . . . .                                    | 110 |
| Manufacturing/Robotics Technology                             |     | Pre-Dentistry . . . . .                                       | 110 |
| AAS Option . . . . .                                          | 119 | Pre-Engineering . . . . .                                     | 140 |
| BS Option . . . . .                                           | 121 | Pre-Forestry . . . . .                                        | 102 |
| Manufacturing Technology Courses . . . . .                    | 185 | Pre-Law . . . . .                                             | 89  |
| Marketing (Programs) . . . . .                                | 45  | Pre-Medicine . . . . .                                        | 111 |
| Courses . . . . .                                             | 185 | Pre-Optometry . . . . .                                       | 140 |
| Marking System (Grades) . . . . .                             | 25  | Pre-Pharmacy . . . . .                                        | 111 |
| Mathematics, Dept. of . . . . .                               | 124 | Pre-Physician Assistant . . . . .                             | 111 |
| Mathematics (Programs) . . . . .                              | 124 | Pre-Physical Therapy . . . . .                                | 111 |
| Courses . . . . .                                             | 186 | Pre-Professional and Introductory Training Programs . . . . . | 110 |
| Mathematics and Computing . . . . .                           | 125 | Pre-Veterinary Medicine . . . . .                             | 102 |
| Medical Technology . . . . .                                  | 108 | Professional Education Courses . . . . .                      | 165 |
| Military Science, Dept. of . . . . .                          | 68  | Professional Experiences . . . . .                            | 51  |
| Courses . . . . .                                             | 188 | Programs of Study . . . . .                                   | 1   |
| Minor . . . . .                                               | 69  | Degrees . . . . .                                             | 1   |
| ROTC . . . . .                                                | 68  | Teacher Certification Program . . . . .                       | 54  |
| Mining Courses . . . . .                                      | 190 | Provisional Studies . . . . .                                 | 18  |
| Minor, Definition . . . . .                                   | 17  | Psychology, Dept. of . . . . .                                | 69  |
| Minority Retention/Gusto . . . . .                            | 31  | Courses . . . . .                                             | 200 |
| Minority Students . . . . .                                   | 34  | Programs . . . . .                                            | 69  |
| Minority Teacher Education Program . . . . .                  | 31  | Radiologic Technology (Two-year Program) . . . . .            | 134 |
| Moderate and Severe Disabilities . . . . .                    | 59  | Courses . . . . .                                             | 202 |
| MSU University Studies Courses . . . . .                      | 190 | Real Estate (Program) . . . . .                               | 46  |
| MSU Mission Statement . . . . .                               | 7   | Courses . . . . .                                             | 203 |
| Music, Dept. of . . . . .                                     | 91  | Option (Associate Degree)                                     |     |
| Applied . . . . .                                             | 91  | Records, Students . . . . .                                   | 26  |
| Certification Program . . . . .                               | 94  | Recreation (Programs) . . . . .                               | 67  |
| Courses . . . . .                                             | 191 | Courses . . . . .                                             | 204 |
| Fees . . . . .                                                | 91  | Refunds . . . . .                                             | 12  |
| General Requirements . . . . .                                | 91  | Regents, Board of . . . . .                                   | 214 |
| Music (Bachelor's Degree) . . . . .                           | 93  | Regional Sites, Extended Campus . . . . .                     | 18  |
| Music Education . . . . .                                     | 92  | Registration . . . . .                                        | 23  |
| National Advisory Board, College of Business . . . . .        | 38  | Advance-Registration . . . . .                                | 23  |
| Non-Traditional and Commuter Student Counseling . . . . .     | 31  | Change in Schedule . . . . .                                  | 23  |
| Numbering, Courses . . . . .                                  | 24  | Classification . . . . .                                      | 24  |
| Nursing                                                       |     | Course Load . . . . .                                         | 23  |
| Courses . . . . .                                             | 193 | Course Numbering . . . . .                                    | 24  |
| Two-Year Program . . . . .                                    | 125 | Early Registration and Orientation . . . . .                  | 23  |
| Four-Year Program . . . . .                                   | 128 | Graduate Credit . . . . .                                     | 23  |
| MSU/UK RN/BSN/MSN Primary Care Nurse . . . . .                | 131 | Late Registration . . . . .                                   | 23  |
| Nursing and Allied Health Sciences, Dept. of . . . . .        | 125 | Regulations, Academic . . . . .                               | 23  |
| Courses . . . . .                                             | 195 | Religion Courses . . . . .                                    | 205 |
| Organizations, Academic and Honor . . . . .                   | 36  | Religious Studies . . . . .                                   | 86  |
| Ornamental Horticulture Option . . . . .                      | 01  | Residency for Fee Assessment . . . . .                        | 11  |

|                                                   |     |                                          |       |
|---------------------------------------------------|-----|------------------------------------------|-------|
| Retail Merchandising and Design Option            | 116 | Special Education                        | 51    |
| Retention/Office of Enrollment Management         | 31  | Professional Semester                    | 53    |
| Peer Advising                                     | 31  | Secondary Education                      | 51/54 |
| Minority Retention/Gusto                          | 31  | Television Courses                       | 35    |
| Minority Teacher Education Program                | 31  | Test of English as a                     |       |
| Non-Traditional and Commuter Student Counseling   | 31  | Foreign Language (TOEFL)                 | 9     |
| Returning Students                                | 9   | Testing Center                           | 32    |
| Robotics Courses                                  | 205 | Theatre (Programs)                       | 81    |
| ROTC, Army                                        | 68  | Courses                                  | 211   |
| Russian Courses                                   | 205 | Three-Two Program (Dual Degree)          | 140   |
| Schedule Change                                   | 23  | Transcripts                              | 26    |
| Scholarships and Awards                           | 14  | Transfer Index                           | 16    |
| Scholastic Points                                 | 25  | Transfer Students                        | 9     |
| Scholastic Standing                               | 26  | Tuition                                  | 12    |
| Science                                           |     | Tutoring                                 | 31    |
| Courses                                           | 205 | University Counseling Center             | 34    |
| Integrated                                        | 139 | Groups and Workshops                     | 34    |
| Physical                                          | 141 | Substance Abuse Education                | 34    |
| Science and Technology, College of                | 95  | Student Wellness Office                  | 34    |
| Agricultural Sciences, Dept. of                   | 97  | University Studies                       | 21    |
| Biological and Environmental Sciences, Dept. of   | 104 | Veterans Administration                  | 17    |
| Faculty                                           | 217 | Veterinary Technology (Two-year Program) | 103   |
| Human Sciences, Dept. of                          | 112 | Courses                                  | 212   |
| Industrial Education and Technology, Dept. of     | 118 | Vocational Education Courses             | 213   |
| Mathematics, Dept. of                             | 124 | Vocational Rehabilitation                | 17    |
| Nursing and Allied Health Sciences, Dept. of      | 125 | Welding Technology Courses               | 213   |
| Physical Sciences, Dept. of                       | 137 | Who to See                               | 4     |
| Programs                                          | 96  | Withdrawal from the University           | 25    |
| Second Degree                                     | 22  | Women's Studies (Minor)                  | 22    |
| Secondary Education                               |     | Courses                                  | 213   |
| Certification                                     | 62  | Work-Study Programs                      | 16    |
| Courses                                           | 163 | Writing Center                           | 31    |
| Selective Service Registration                    | 13  |                                          |       |
| Service Member's Opportunity College              | 10  |                                          |       |
| Sexual Harassment Policy                          | 27  |                                          |       |
| Social Studies (Programs)                         | 90  |                                          |       |
| Social Work (Programs)                            | 71  |                                          |       |
| Courses                                           | 209 |                                          |       |
| Sociology (Programs)                              | 73  |                                          |       |
| Courses                                           | 206 |                                          |       |
| Sociology, Social Work, and Criminology, Dept. of | 71  |                                          |       |
| Spanish (Programs)                                | 85  |                                          |       |
| Courses                                           | 208 |                                          |       |
| Special Education                                 | 57  |                                          |       |
| Courses                                           | 163 |                                          |       |
| Programs:                                         |     |                                          |       |
| Learning and Behavior Disorders                   | 57  |                                          |       |
| Moderate and Sever Disabilities                   | 59  |                                          |       |
| Non-Teaching Major and Minor                      | 62  |                                          |       |
| Special Students                                  | 10  |                                          |       |
| Speech (Programs)                                 | 80  |                                          |       |
| Courses                                           | 208 |                                          |       |
| Statistics Minor                                  | 124 |                                          |       |
| Student Records, (Rights to Privacy/Access)       | 26  |                                          |       |
| Student Support Services                          | 31  |                                          |       |
| Student Trip Insurance                            | 32  |                                          |       |
| Teacher Certification                             | 54  |                                          |       |
| Teacher Education Program                         | 51  |                                          |       |
| Admission to Teacher Education                    | 51  |                                          |       |
| Admission Procedures                              | 51  |                                          |       |
| Certification                                     | 54  |                                          |       |
| Teacher Education Courses                         | 53  |                                          |       |
| Elem., Middle Grades, and                         |     |                                          |       |

