

Final Draft 5/4/15

College of Science and Technology

Program Review

I. Eliminate

Program demonstrates ongoing low productivity, based on headcount, degree production, credit hour production, graduation rates, and other key performance indicators.

Program elimination will be conducted in accordance with relevant policies and coordinated by the relevant academic deans.

Program	Recommended Action	Rationale	Update
<p>A15-0000</p> <p>AAS in Engineering Technology</p>	<p>ELIMINATE</p> <ul style="list-style-type: none"> • Assist MCTC in developing an ATMAE Accredited Associate Degree program in Engineering Technology. • Phase out our A15-0000 program and develop an MOU with MCTC whereby there is dual enrollment and seamless transition of MCTC students to our B15-0000 programs in Engineering Technology or B15-1501 program in Technology Management. 	<p>This program has low enrollment and it is unclear whether it would be necessary or desirable once a nearby MCTC program achieves accreditation. With the new Manufacturing Center building for the new Rowen MCTC campus being built in the next few years and with recent discussions with MCTC administration about partnerships, there is an opportunity to develop pathways from MCTC to MSU. This action would not result in any immediate cost savings. But will ultimately result in more robust enrollment in our BS programs and elevated AET programs at MSU. It will also support the elevation of MCTC's Associate degree program and strengthen our connection with MCTC.</p>	<p>Actions Taken: This program moved to the College of Business & Technology, Fall 2016.</p>

Program	Recommended Action	Rationale	Update																								
M42-0101 MS in Psychology - General	ELIMINATE Phase out existing MS in Psychology-General program. Explore the development of a new program in Applied Psychology	This program has had consistently low enrollment with Fall 2014 headcount of 7. The instruction costs for this program are included in the costs for the MS in Clinical Psychology. So there would be no cost savings by eliminating this program. However, there is an opportunity for a new program to be developed with a focus on recent MSU graduates looking to continue graduate course work to provide additional specific content and/or preparation for reapplication to professional schools. The program would be expected to have more robust enrollment.	<p>Actions Taken: The department eliminated the General Psychology M.S. degree and retained the Clinical Psychology Degree. They did not develop an Applied Psychology M.S. degree.</p> <p>3-Year Data Synopsis:</p> <table border="1" data-bbox="1626 370 2502 553"> <thead> <tr> <th></th> <th>2013 -14</th> <th>2014 -15</th> <th>2015 -16</th> <th>2016 -17</th> <th>2017 -18</th> </tr> </thead> <tbody> <tr> <td>Enrollment</td> <td></td> <td>7</td> <td>5</td> <td>0</td> <td>1</td> </tr> <tr> <td>Graduated</td> <td></td> <td>1</td> <td>6</td> <td>0</td> <td></td> </tr> <tr> <td>SCH/FTE</td> <td></td> <td>933</td> <td>930</td> <td>891</td> <td></td> </tr> </tbody> </table> <p>Review Narrative: Graduation numbers for the General M.S. degree reflect the elimination of the program. Is a M.S. degree in Applied Psychology still an option?</p> <p>Program Response: Without additional resources, a M.S. degree in Applied Psychology is not an option. The department did eliminate the General Psychology M.S. Program. Enrollment of 1 in the General Psychology program for 2017 cannot be correct, since the program was eliminated.</p>		2013 -14	2014 -15	2015 -16	2016 -17	2017 -18	Enrollment		7	5	0	1	Graduated		1	6	0		SCH/FTE		933	930	891	
	2013 -14	2014 -15	2015 -16	2016 -17	2017 -18																						
Enrollment		7	5	0	1																						
Graduated		1	6	0																							
SCH/FTE		933	930	891																							

II. Modify

Program demonstrates low productivity, based on headcount, degree production, credit hour production, graduation rates, and other key performance indicators. The program requires immediate and targeted action.

Program	Recommended Action	Rationale	Update																														
<p>M13-1399</p> <p>MS-CTE</p> <p>Joint program in AET and AS</p>	<p>MODIFY</p> <ul style="list-style-type: none"> • Move the Graduate courses in the MS-CTE to the summer sessions. • Use the 10th month + 3 hours of assigned time during the AY to meet the grant buyout obligation. • Distribute the faculty members' remaining 21 workload hours to support the AG-Educ; AET-Educ; and AET program courses. 	<p>The program is one of two such programs in the Commonwealth. It is supported by one full-time 10-month faculty member. MSU has a grant to maintain a program here at MSU that supports 44 days of a faculty member's salary, to serve the program that includes visits to schools and state meetings. The graduate program has continued low enrollment with fall headcount of 14 and there no significant future growth prospects. Moving it to a summer program allows the students to be served, and better uses the faculty member to serve the undergraduate programs in AS and AET where there is student demand, and allow a reduction of adjunct usage in AET.</p>	<p>Actions Taken: The GRE application requirement was removed. The graduate courses in MS-CTE were not moved to summer. Faculty workloads were not shifted. Currently, among the MS CTE-IET, MS CTE-AGR, and MS CTE-Principalship there are 30 active students. Three students finished Fall 2017 and 4 will finish Spring 2018.</p> <p>3-Year Data Synopsis:</p> <table border="1" data-bbox="1626 776 2502 959"> <thead> <tr> <th></th> <th>2013</th> <th>2014</th> <th>2015</th> <th>2016</th> <th>2017</th> </tr> </thead> <tbody> <tr> <td></td> <td>-14</td> <td>-15</td> <td>-16</td> <td>-17</td> <td>-18</td> </tr> <tr> <td>Enrollment</td> <td>5</td> <td>9</td> <td>9</td> <td>10</td> <td>8</td> </tr> <tr> <td>Graduated</td> <td></td> <td>4</td> <td>8</td> <td>2</td> <td></td> </tr> <tr> <td>SCH/FTE</td> <td></td> <td>494</td> <td>512</td> <td>811</td> <td></td> </tr> </tbody> </table> <p>Review Narrative: It is not clear why faculty workloads were not shifted as requested. Graduation rates are low and variable.</p> <p>Program Response: The GRE application requirements was removed. Changes were not made to move the courses to summer because students served in this program are not likely to be able to take many courses during the summer, soloing progression and possibly resulting in an enrollment decline. The degree attracts both teachers in Kentucky and Extension Agents. The program has an ongoing recruitment process.</p> <p>See Appendix A</p>		2013	2014	2015	2016	2017		-14	-15	-16	-17	-18	Enrollment	5	9	9	10	8	Graduated		4	8	2		SCH/FTE		494	512	811	
	2013	2014	2015	2016	2017																												
	-14	-15	-16	-17	-18																												
Enrollment	5	9	9	10	8																												
Graduated		4	8	2																													
SCH/FTE		494	512	811																													

Program	Recommended Action	Rationale	Update																								
M26-0101 MS in Biology	MODIFY <ul style="list-style-type: none"> • Add to the existing MS in Biology program, 4+1 program tracks that attract current Biology and Biomedical Sciences graduates. • Develop online versions of face-to-face courses that run alongside the face-to-face courses in the given term to access a market of place bound students. Consider the potential of a modular format for the courses to provide increase flexibility for students. 	Changed from original draft: ELIMINATE to MODIFY This program has continued low enrollment with Fall 2014 headcount of 9. There is an opportunity for a new program to be developed with a focus on recent MSU graduates looking to continue graduate course work to provide additional biomedical or other specific trainings and/or preparation for reapplication to professional schools.	<p>Actions Taken: A new M.S. in Biology was developed under the suggested 4+1 format. The inaugural year is 2017-2018. Two new online courses were developed: BIOL 478, Animal Behavior and BIOL 610, Advanced Evolution. Enrollments for these courses are: BIOL 478: Fall 2016, 20; Fall 2017, 16. BIOL 610: Fall 2016, 16.</p> <p>3-Year Data Synopsis: The 4+1 M.S. degree's inaugural year is 2017-2018. No trend data are available. The general M.S. in biology has 7 students in Fall 2017.</p> <table border="1" data-bbox="1626 509 2502 695"> <thead> <tr> <th></th> <th>2013 -14</th> <th>2014 -15</th> <th>2015 -16</th> <th>2016 -17</th> <th>2017 -18</th> </tr> </thead> <tbody> <tr> <td>Enrollment</td> <td>12</td> <td>9</td> <td>8</td> <td>11</td> <td>7</td> </tr> <tr> <td>Graduated</td> <td></td> <td>4</td> <td>8</td> <td>2</td> <td></td> </tr> <tr> <td>SCH/FTE</td> <td></td> <td>494</td> <td>512</td> <td>811</td> <td></td> </tr> </tbody> </table> <p>Review Narrative: The department accomplished what was asked. Current graduation rates are low and variable.</p> <p>Program Response: It would have been impossible for new students to begin during the inaugural year for the program due to students having to sign up their junior year for the program, which would have been 2016-2017, when the program did not yet exist. We hope now that the program is advertised online and by faculty advisors to recruit students to the 4+1 program during 2017-2018.</p>		2013 -14	2014 -15	2015 -16	2016 -17	2017 -18	Enrollment	12	9	8	11	7	Graduated		4	8	2		SCH/FTE		494	512	811	
	2013 -14	2014 -15	2015 -16	2016 -17	2017 -18																						
Enrollment	12	9	8	11	7																						
Graduated		4	8	2																							
SCH/FTE		494	512	811																							

Program	Recommended Action	Rationale	Update																														
B40-0601 BS in Earth Systems	MODIFY <ul style="list-style-type: none"> • Perform Market analysis of the viability of a GST Track in the ESS program and depending on the outcome proceed with the approval process. • Based on the results of the market analysis and approval of the GST track, reallocation of faculty resources within the ESS program may be necessary. 	<p>The program has continued low enrollment with fall 2014 headcount of 33, but has good retention and graduate rates for its students, and graduates find high paying jobs. With 5 tenured faculty members in the program, there are more faculty than is needed to maintain the program and its current enrollment. A new Geo-Spatial Technologies (GST) program track has been developed that would be expected to attract new and additional majors, and aligns with the Space Science program and space technologies being developed at MSU. However, we would need 1-2 faculty members with different expertise to implement the GST program and we immediately need a Space Systems Engineer (expertise in Digital Signal Processing) to support the MSSE program. The new GST faculty member could also teach general education courses in the Earth System area to assist the productivity of the ESS program. This new SSE faculty member would also support the GST program when implemented.</p>	<p>Actions Taken: A market analysis was done. The GST track was implemented for the 2017-2018 year. No additional full-time faculty members have been hired to start the program. An adjunct will be hired to help with the program 2018-2019, when the full sequence of courses comes onboard. Earth Systems also added a teacher education track as part of the MSUTeach program.</p> <p>3-Year Data Synopsis: Year 2017-2018 is the inaugural year. Data shown are for the degree program prior to the additional degree track.</p> <table border="1" data-bbox="1626 521 2502 704"> <thead> <tr> <th></th> <th>2013</th> <th>2014</th> <th>2015</th> <th>2016</th> <th>2017</th> </tr> </thead> <tbody> <tr> <td></td> <td>-14</td> <td>-15</td> <td>-16</td> <td>-17</td> <td>-18</td> </tr> <tr> <td>Enrollment</td> <td>35</td> <td>33</td> <td>38</td> <td>23</td> <td>27</td> </tr> <tr> <td>Graduated</td> <td></td> <td>3</td> <td>15</td> <td>6</td> <td></td> </tr> <tr> <td>SCH/FTE</td> <td></td> <td>556</td> <td>498</td> <td>478</td> <td></td> </tr> </tbody> </table> <p>Review Narrative: Enrollment is decreasing in Earth Systems. However, the department has initiated the GST track as requested. Latest graduation number is low.</p> <p>Program Response: The current number of majors listed for ESS is 31 if we tally all the majors for the various faculty, so the decrease is minimal. A faculty member from the School of Engineering Technology & Management has been engaged to teach a course in the GST Track in Fall 2018. No new hire for this position at this point. Retention rates in discipline > 90%, and nearly 100% placement of graduates in discipline or graduate school.</p>		2013	2014	2015	2016	2017		-14	-15	-16	-17	-18	Enrollment	35	33	38	23	27	Graduated		3	15	6		SCH/FTE		556	498	478	
	2013	2014	2015	2016	2017																												
	-14	-15	-16	-17	-18																												
Enrollment	35	33	38	23	27																												
Graduated		3	15	6																													
SCH/FTE		556	498	478																													

Program	Recommended Action	Rationale	Update
B31-0501 BS in Health and Physical Education	MODIFY Move the B31-0501 program as a track under the B13-1307 program.	Although this program has had a stable headcount enrollment, it has had low and declining degree production; low program completion for several years. It has its own CIP code, but many of the courses in the B31-0501 program are shared with courses in the other HWHP programs. Consolidation of the HPE program with Health Promotion would mean that	Actions Taken: The B.S. in HPE was eliminated. The teach out plan ends in Spring 2020. As of Fall 2017, there are still 16 students in the program. 3-Year Data Synopsis: N/A Review Narrative: N/A Program Response: N/A

III. Monitor

Program demonstrates moderate to low productivity or is experiencing adverse trends based on headcount, degree production, credit hour production, graduation rates, and other key performance indicators. Specific challenges and opportunities associated with the program have been identified. Improvement plans must be presented to the relevant dean implemented by no later than fall 2016.

Program	Recommended Action	Rationale	Update																				
B27-0101 BS in Mathematics	<p>MONITOR</p> <ul style="list-style-type: none"> The challenge is to increase the enrollments in the program and improve the retention and graduation rate of the students in the program. Enhance the collaboration with COE on math education that increases enrollments in the math teacher preparation program, serves the greater eastern KY region, and enhances scholarship in the area of math education. Consider development of interdisciplinary programs that utilize faculty resources and expertise across the campus, and connect the program to Business and CIS. Review use of Computer Software Technologies in Developmental Courses 	<p>The program has seen a decline in enrollments of first majors over the last 5 years from 104 in Fall 2009 to 78 in Fall of 2013 and the preliminary number for Fall of 2014 is 75, continuing the trend. The ratio of the number of undergraduate majors (even including second majors) to number of professorial faculty is among the lowest in the college. Progress on reversing this trend is needed before professorial hires can be made. The 6-year graduation rate for the 2007 cohort is at a reasonable level including the inflow and outflow rates. However, while the University's 6-year graduation rate for the 2008 cohort increased over the 2007 cohort, the graduation rate for mathematics is down for the 2008 cohort, especially with the inflow and outflow included. A plan for adding a new math track in financial math has been indicated in the APNA for 2014. We need to determine the solution and implement it soon.</p>	<p>Actions Taken: Collaboration with the COE has been achieved through the newly established MSUTeach program. Two interdisciplinary programs are being developed – a new degree track in Actuarial Sciences and a new degree pathway from physics to MBA, with the COBT. Curricula development and faculty training are underway, and these new programs should be onboard 2019-2020. Computer software technologies are being used in the Developmental Courses. Furthermore, this will be reviewed again, as we are moving from Developmental courses to Co-requisite courses.</p> <p>3-Year Data Synopsis: Enrollment fluctuates, and has decreased overall. Enrollment is 14 for the MSUTeach Major and MSUTeach Area (2017-2018).</p> <table border="1"> <thead> <tr> <th></th> <th>2014-15</th> <th>2015-16</th> <th>2016-17</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>Enrollment</td> <td>101</td> <td>125</td> <td>117</td> <td>91</td> </tr> <tr> <td>Graduated</td> <td>18</td> <td>20</td> <td>30</td> <td></td> </tr> <tr> <td>SCH/FTE</td> <td>717</td> <td>696</td> <td>736</td> <td></td> </tr> </tbody> </table> <p>Review Narrative: Enrollment is decreasing slightly, but the MSUTeach program is successful. Retention has increased, with better graduation rates.</p> <p>Program Response: Although teaching enrollment fluctuates, all graduates who desire teaching positions have been successful. The number of graduates overall has steadily risen, as has the number of service courses provided for non-majors and Craft Academy students. The Actuarial track has been approved with the first new course in the program to be taught in Fall 2018. Developmental courses have been phased out and replaced with Enhanced courses in which assistive software is used to aid student comprehension and retention.</p>		2014-15	2015-16	2016-17	2017-18	Enrollment	101	125	117	91	Graduated	18	20	30		SCH/FTE	717	696	736	
	2014-15	2015-16	2016-17	2017-18																			
Enrollment	101	125	117	91																			
Graduated	18	20	30																				
SCH/FTE	717	696	736																				

Program	Recommended Action	Rationale	Update																														
B51-3801 Nursing Bachelor Degree Program	<p>MONITOR</p> <ul style="list-style-type: none"> Consider curricular changes that would keep the online RN to BSN program competitive and more attractive to students, exploring modular format and accelerated degree completion. Prepare an advertising plan for the RN to BSN program. Prepare a plan, including a budget request, for a 2 cohort per year admission for the BSN face-to-face program that optimizes the use of faculty adjuncts and considers efficiencies that can be gained in the bachelor and associate degree programs. Develop an action plan to improve on time completion and 6- year graduation rates for the program. 	<p>The BSN program is strong, but has seen a recent and drop in enrollments (headcount of 572 in fall 2013 to 477 in fall 2014), with declines to the BSN face-to-face program as well as the RN-to- BSN online program. Investigation of this enrollment drop is needed to understand the causes of the decline and how to reverse or address. There are currently many online Nursing programs licensed in KY and competition for students is increasing requiring action to remain competitive and maintain and/or grow our enrollments. On the other hand, the face-to-face BSN program at MSU, with its once per year admission of only 60 students has many qualified applicants from pre- nursing students not being admitted to the program. The BSN program also has courses that only repeat once per year, so that students that drop a course and/or do not receive a C grade are out of sequence and must wait a full year before re-entering the program. The challenge to growing the enrollment is in identifying the number of clinical sites and slots for nursing students in both the associate and bachelor degree programs. Analysis of the future job needs in the region will help determine the optimum number of slots in each of the two programs and the best use of available instructional resources. The retention of entering students who declare intention to pursue the BSN degree is below the University and College average and the six-year graduation rate (including outflow) for the BSN program less than 40%.</p>	<p>Actions Taken: Nursing completed all 3 of the suggested tasks. Nursing opened a second cohort in the BSN in Spring 2017. The inaugural cohort was 32 students. The Spring 2018 cohort was 23 students. This is above the anticipated prediction of 20 for the new cohorts. The Fall 2017 cohort is 53.</p> <p>3-Year Data Synopsis:</p> <table border="1" data-bbox="1626 440 2502 623"> <tbody> <tr> <td>B.S. Nursing</td> <td>2013</td> <td>2014</td> <td>2015</td> <td>2016</td> <td>2017</td> </tr> <tr> <td></td> <td>-14</td> <td>-15</td> <td>-16</td> <td>-17</td> <td>-18</td> </tr> <tr> <td>Enrollment</td> <td>572</td> <td>477</td> <td>408</td> <td>383</td> <td>413</td> </tr> <tr> <td>Graduated</td> <td></td> <td>87</td> <td>67</td> <td>63</td> <td></td> </tr> <tr> <td>SCH/FTE</td> <td></td> <td>310</td> <td>331</td> <td>322</td> <td></td> </tr> </tbody> </table> <p>Review Narrative: The 76 student enrollment is above the old capacity of 60, but still less than a potential capacity of 120 students. Overall enrollment dropped, but seems to be rising.</p> <p>Program Response:</p> <ol style="list-style-type: none"> Several recruitment & retention initiatives implemented. See Appendix B at end of document. New Spring admission cycle needs to be advertised in state nursing magazine and other venues as was done for post-licensure programs – Online RN-BSN & new MSN program. Centralized scheduling of freshman hinders relationship development between faculty advisors and declared freshman nursing majors. <p>Anecdotal Note: Nursing CIP Code -51:3801 outlines 300 SCHs/Faculty FTE. Data for the last 3 documented years in the 3-Year Data Synopsis table supports >300 SCHs/Faculty FTE.</p>	B.S. Nursing	2013	2014	2015	2016	2017		-14	-15	-16	-17	-18	Enrollment	572	477	408	383	413	Graduated		87	67	63		SCH/FTE		310	331	322	
B.S. Nursing	2013	2014	2015	2016	2017																												
	-14	-15	-16	-17	-18																												
Enrollment	572	477	408	383	413																												
Graduated		87	67	63																													
SCH/FTE		310	331	322																													

Program	Recommended Action	Rationale	Update																														
M13-1314 MA in Wellness Promotion	MONITOR <ul style="list-style-type: none"> • The challenge is to reverse the recent enrollment decline. • Consider curricular changes that would keep the program competitive, exploring modular format and accelerated degree completion. 	This is a fully online program that has seen a recent drop in enrollments. An investigation of this enrollment drop is needed to understand the causes of the decline. In fall 2013 there were 27 students in the graduate program, and this year there are 17, with 3 of the current students also pursuing the MS in Engineering Technology.	<p>Actions Taken: The entry requirements for the program were changed December 2017 to where the GRE and MAT are no longer required for acceptance into the program. A 1-year, non-thesis option is now in place – students can take 12 hours a semester and 6 over the summer to earn the degree in one year. Modular formatting and accelerated degree completion were not implemented.</p> <p>3-Year Data Synopsis:</p> <table border="1" data-bbox="1626 492 2502 675"> <thead> <tr> <th></th> <th>2013</th> <th>2014</th> <th>2015</th> <th>2016</th> <th>2017</th> </tr> </thead> <tbody> <tr> <td></td> <td>-14</td> <td>-15</td> <td>-16</td> <td>-17</td> <td>-18</td> </tr> <tr> <td>Enrollment</td> <td>25</td> <td>16</td> <td>13</td> <td>16</td> <td>17</td> </tr> <tr> <td>Graduated</td> <td></td> <td>14</td> <td>5</td> <td>5</td> <td></td> </tr> <tr> <td>SCH/FTE</td> <td></td> <td>510</td> <td>473</td> <td>519</td> <td></td> </tr> </tbody> </table> <p>Review Narrative: Changes were made to facilitate acceptance into the program and increased graduation, but the numbers have declined. Enrollment is modest.</p> <p>Program Response: Enrollment restrictions were just recently lifted, so the effects cannot yet be seen. True effects will be seen next year. The GRE/MAT requirement was obstacle. With increased marketing and MSU spotlighting of online programs on the web, enrollments will increase. Marketing beyond the service region has not been done yet. Accelerated degree completion was implemented a couple of years ago by creating a 1-year path to completion. Eight new students applied to the program in January. We will promote the program to our undergraduate Health Promotion and Exercise Science majors.</p>		2013	2014	2015	2016	2017		-14	-15	-16	-17	-18	Enrollment	25	16	13	16	17	Graduated		14	5	5		SCH/FTE		510	473	519	
	2013	2014	2015	2016	2017																												
	-14	-15	-16	-17	-18																												
Enrollment	25	16	13	16	17																												
Graduated		14	5	5																													
SCH/FTE		510	473	519																													

IV. Retain

Program demonstrates high productivity based on headcount, degree production, credit hour production, graduation rates, and other key performance indicators. Although retained, program must continue to seek out opportunities for improving academic quality and enrollment.

Program	Update
A51-0808 AAS in Veterinary Technology	4-Year Enrollment Trend: 115-121-111-110 Degrees Conferred: 17-25-26 Review Narrative: Enrollment fluctuates slightly, but remains strong. Graduation trend is improving. Program Response: The program has completed a program revision that will start with incoming Freshmen Fall 2018. The revision is to meet changes in AVMA accreditation.
B51-0808 BS in Veterinary Technology	4-Year Enrollment Trend: 24-21-24-26 Degrees Conferred: 20-18-19 Review Narrative: Enrollment remains steady, and graduation rates are very good. Program Response: Program continues to have steady enrollment and graduation rates. No immediate changes planned.
B01-0000 BS in Agriculture	4-Year Enrollment Trend: 224-236-223-229 Degrees Conferred: 39-52-44 Review Narrative: Enrollment is strong. Program remains strong. Program Response: Enrollment and graduation rates are steady. No immediate program changes are planned.
B51-2501 BS in Veterinary Science	4-Year Enrollment Trend: 111-113-115-112 Degrees Conferred: 6-10-7 Review Narrative: Enrollment is strong and steady. Graduation rates should be better. Program Response: Enrollment rates are steady. Degrees conferred for 2017-2018 are 14, which is a significant improvement.
B26-0101 BS in Biology	4-Year Enrollment Trend: 162-157-165-135 Degrees Conferred: 16-17-10 Review Narrative: Large drop in enrollment this past year. Program Response: The drop in enrollment is likely due in part to students interested in health-related career tracks choosing the Biomedical Science degree option. We are currently reviewing the biology curriculum to make it more appealing to students in general, especially those interested in environmental sciences. Our yearly totals for BIOC range from 565-588.
B26-0102 BS in Biomedical Sciences	4-Year Enrollment Trend: 326-366-342-348 Degrees Conferred: 40-49-60 Review Narrative: General increase in enrollment, with an increase in graduation rate. Program Response: In addition to general increase, the increase is likely due in part to more students interested in health-related career tracks choosing Biomedical Sciences over the Biology degree option. We are currently reviewing the general biology curriculum to make it more appealing.
B40-0501 BS in Chemistry	4-Year Enrollment Trend: 70-61-54-56 Degrees Conferred: 8-5-9 Review Narrative: Enrollment shows a steady drop. Graduation rates are low. Program Response: It is possible that the decrease may in part be due to students who are pre-pharmacy are now opting for the Biomedical Science degree rather than Chemistry as it is a viable alternative that students can pursue. Chemistry still is very important because most degree paths require chemistry and organic chemistry classes.
B40-0801 BS in Space Science/Astrophysics	4-Year Enrollment Trend: 63-80-103-104 Degrees Conferred: 8-9-12 Review Narrative: Enrollment has taken off. Graduation rate should follow.

	<p>Program Response: Major curriculum revision completed in 2017. Proactive advising begun in order to increase retention rates. 100% placement of graduates in the discipline.</p>
M14-0201 MS in Space Systems Engineering	<p>4-Year Enrollment Trend: 6-10-11-17 Degrees Conferred: 2015-2016:2 2016-2017:4 Review Narrative: Enrollment has increased. Graduation rates are low.</p> <p>Program Response: There are currently 22 students listed as advisees in the SSE-MS program.</p>
A51-0908 AAS in Respiratory Care	<p>4-Year Enrollment Trend: 13-21-18-17 Degrees Conferred: 5-6-5 Review Narrative: Enrollment remains stable. Graduation rates are low.</p> <p>Program Response: RCP wants to roll back the application deadline beyond the current Nov 15 date. This will allow students to complete the pre-entry semester, which might give a clearer picture of student performance for admissions purposes. The RCP program is administered through MSU, but all of the classes are taught by the community college, not MSU. MSU is only the administrative institution. The majority of students in the program are not students residing at MSU. MSU only takes up to 7 students per year. In 2015 6/6 graduated, in 2016 5/5 graduated and 2017 7/8 graduated. The students who did not graduate from the program were from the other campuses. Data from the last 3 years shows the largest group completing the program are students from the service region, however the percent is low (11/32 = 34.4%). KY students from outside the service region showed 4/8 or 50% and outside KY showed 1/9 or 11.1% graduation. Most of the RCP students do not choose the program as their first major in college and frequently migrate over because they don't do well in some other clinical major.</p>
B13-1307 BS in Health Promotion	<p>4-Year Enrollment Trend: 44-50-60-65 Degrees Conferred: 9-18-16 Review Narrative: Enrollment and graduation rates are up.</p> <p>Program Response: The health promotion program excels in accepting transfer students from all majors with the majority coming in as Juniors or Seniors with numerous credits. Most recently, enrollment numbers have risen due to students transferring from College of Science programs such as nursing, radiology, and exercise science. Recent curriculum changes have incorporated program electives from those areas to enhance the transfer of relevant courses with good results toward the path to graduation. The program continues to deliver a high-quality program with only 1 tenure-track and 1 instructor for over 90 students. In addition, the only tenured faculty in HP also teaches a number of courses in the graduate program. The instructor in HP also teaches in general education. In addition, due to the way HP and ES overlap on several courses, all ES faculty teach courses for HP and visa versa. Program changes were implemented in 2018 to increase the selection of electives, however, this may also create an increased demand in certain courses in either HP and/or ES. KH in general relies on a number of adjuncts to deliver the programs. HP also continues to show steady migration into the program from other programs in the College of Science, including Nursing, Imaging Sciences and Exercise Science. Other marketing plans include improvements to the website, new flyers, and new displays that will be used for Open Houses, SOARs and Meet MSU Nights.</p>
B31-0505 BS in Exercise Science	<p>4-Year Enrollment Trend: 210-234-197-204 Degrees Conferred: 33-39-44 Review Narrative: Enrollment and graduation rates are strong and stable.</p> <p>Program Response: Exercise science has an enrollment of around 200 majors. The program is strong and should continue to grow. With only two temure-track faculty (one is interim dept. Chair) and one instructor, it is impossible to keep faculty from overload. If exercise science had at least one more tenure-track faculty or a full time instructor. This will allow more sections of crowded upper level courses (40-50 students in courses that offered once/year) and take some of the advising burden off of 2 faculty, each with over 100 advisees. Both ES faculty teach in the Wellness Promotion graduate program. In addition, due to the way HP and ES overlap on several courses, all ES faculty teach courses for HP and visa versa. ES has an active laboratory component to a number of courses. This equipment must be maintained. One of the tenure-track faculty currently oversees</p>

	<p>the lab and the GAs. KH relies on a number of adjuncts to deliver the programs. ES also continues to show steady migration into the program from other programs in the College of Science, including Biology and to a lesser extent Health Promotion and Nursing. ES will submit revisions to courses and the program in 2018 that will improve the student's learning experience, e.g. adding pre-requisites to upper level courses to provide students with more background in difficult courses. ES is still seeking CAAHEP accreditation and has renewed the Education Recognition Program through the National Strength and Conditioning Association. One challenge this year will be the transition out of Laughlin. Hopefully, it won't be too disruptive where it might drive students out of ES. Marketing plans will include improvements to the website, new flyers, and new displays that will be used for Open Houses, SOARs and Meet MSU Nights. Ways to increase the graduation rates could be the emphasis on 30-60-90 through better advising. This can be problematic with the high student to advisor ratio of roughly 100:1.</p>
A51-0907 AAS in Radiological Science	<p>4-Year Enrollment Trend: 172-184-193-181 Degrees Conferred: 29-25-29 Review Narrative: Enrollment and graduation rates are strong and stable.</p> <p>Program Response: The ASS continues to be highly productive in percent professional credentialing pass rates, graduation rates, employment rates for new graduates and employer satisfaction. The program continues to be a strong feeder for the two bachelor in imaging science program tracks and other career advancing options. AAS graduates are meeting the demands for employment of radiographers in the service region. Marketing plans include continued work with the clinical sites, improvements to the website, new flyers, and new displays that will be used for Open Houses, SOARs and Meet MSU Nights.</p>
B51-0907 BS in Imaging Sciences	<p>4-Year Enrollment Trend: 61-55-64-62 Degrees Conferred: 32-24-28 Review Narrative: Enrollment and graduation rates are strong and stable.</p> <p>Program Response: Overall, the BSIS tracks continue to be highly productive in percent professional credentialing pass rates, graduation rates, employment rates for new graduates and employer satisfaction. All programs are expecting to show growth, especially the DMS track for 2018/2019 as applications are very high this year. Marketing plans include continued work with the clinical sites, improvements to the website, new flyers, and new displays that will be used for Open Houses, SOARs and Meet MSU Nights.</p>
B40-0801 BS in Physics	<p>4-Year Enrollment Trend: 66-51-57-51 Degrees Conferred: 5-5-12 Review Narrative: Enrollment has dropped and graduation rates are low.</p> <p>Program Response: The Physics program continues to seek and implement new opportunities to improve student opportunities in the classroom and in research. A missing component of the enrollment numbers in Physics is the fact that Pre-Engineering students, particularly those who intend to complete the 2+2 program, are not counted as students in the program although they take the same courses as Physics majors. Many Craft Academy students are in the same courses and are likewise not counted in the enrollment totals. In both cases, the students do not graduate from MSU so would negatively affect graduation rates, but their existence in class is overlooked in the enrollment numbers. The number of students in Physics courses, particularly service courses, is still large. Astrophysics is a joint offering between EASS and MAPH so the number of degrees conferred in the EASS area should be included in both programs.</p>

A51-3801 Associate degree in Nursing

4-Year Enrollment Trend: 250-243-187-164 Degrees Conferred: 57-67-42 **Review Narrative:** Enrollment has dropped significantly and graduation rates have followed.

Program Response:

Enrollment:

- The Department of Nursing has implemented “Nursing Days” twice a year to bring in area high school students and parents to showcase the Department of Nursing. Sessions are held for parents and students to participate in interactive nursing activities lead by faculty.
- Enrollment caps have been lifted the past two semesters to admit all qualified candidates.
- NURA 112 was initiated in Fall 2015 as a retention effort. It was determined to be a barrier to entry into the program and was deleted in Spring 2017 to facilitate easier access to admission to the program.
- Assistant Coordinator, Mt. Sterling campus participates in SOAR activities at the MTS campus to answer questions and help students with academic planning.
- **Anecdotal Note: Some MSU AASN grads enter the Online RN BSN program post-graduation. Fall 2017 Online new admits – 23 students, 10/23 (43%) were AASN grads & Spring 2018 Online new admits – 12 students, 2/12 (17%) were AASN grads.**

Retention:

- All students who are unsuccessful on exams (<76%) complete an exam remediation worksheet and are counseled by course faculty.
- Students who score <850 on course nationally normed exams are counseled each semester and given access to remediation materials.
- All students are given the Admission Assessment Exam to assist nursing faculty in the evaluation of the basic skills of students admitted to the program. The exam evaluated the students’ reading, math, writing, and science knowledge and skills. Students are then counseled by first semester faculty.
- The Kaplan Testing Program was implemented in the last semester of the program in Spring 2017 and throughout the curriculum in Spring 2018. This program is comprised of a series of online tests and remediation resources designed to evaluate and remediate the nursing knowledge of students. The tests perform as end-of-course and end of program or exit evaluation tools for use during the program. In addition to testing basic nursing content, the tests evaluate students’ critical thinking skills. The results enable nursing faculty to identify students with knowledge and learning deficits in specific content areas in a timely manner so that early intervention changes student outcomes.
- SIM chart (the electronic charting system) will be removed from the program in Fall 2018. Faculty evaluated the time spent on this electronic care planning system and determined it was decreasing the amount of available study time for students.
- A new reference, study guide and course content will be added to the first semester of the program in Fall 2018 on test taking strategies.
- Faculty noted that students were not attending lectures consistently throughout the program. Students stated that they were watching the video recorded lectures which were available through Bb. This process does not allow students to participate in active learning strategies and/or ask questions. Video recording lectures was eliminated from the program to encourage in-class participation.
- Multiple courses implemented in-class quizzes to increase class attendance for spring 2018.

B42-0101 BS in Psychology	<p>4-Year Enrollment Trend: 210-194-197-178 Degrees Conferred: 37-29-44 Review Narrative: Enrollment took a big drop this year.</p> <p>Program Response: Establishing the neuroscience program (not reflected in the initial self-study report) along with not replacing faculty have contributed to the drops in enrollment. Graduation rate (not commented on) is strong. One of the highest in the college.</p>
M42-2801 MS in Clinical Psychology	<p>4-Year Enrollment Trend: 19-19-21-23 Degrees Conferred: 8-5-7 Review Narrative: Enrollment is strong and graduation rates are acceptable.</p> <p>Program Response: Enrollment will drop without replacement of faculty who have left the program.</p>

Appendix A
AET and AS Joint Program

Program Response: The GRE application requirements was removed. Changes were not made to move the courses to summer because students served in this program are not likely to be able to take many courses during the summer, soloing progression and possibly resulting in an enrollment decline. The degree attracts both teachers in Kentucky and Extension Agents. The program has an ongoing recruitment process. The program coordinator and the department chairs from both programs are in the process of revising the curriculum to address international student need. Faculty in the MS program also teach in the CTE undergraduate courses which includes majors in Agriculture Education, Engineering and Technology Education, Occupation-Based Education and soon Business Education.

The table below combines information from each department.

	2014-2015	2015-2016	2016-2017	2017-2018
Enrollment	15	16	19	24
Graduated	8	11	4	

Currently, among the MS CTE-IET, MS CTE-AGR, and MS CTE-Principalship there are 30 active students. Three students finished in the Fall of 2017 and at least 4 will finish in the Spring of 2018

Appendix B

BSN Program Response

RECRUITMENT:

- NURB 499 Senior Capstone students completing 8-12 hours of recruiting at regional area middle & high schools and Northern Ky area schools
- NURB 264 Family students in the school system and sharing information about the program
- Will be looking at partnering with high school health science classes
- Host a High School Guidance Counselor luncheon in Fall
- BSN students participating in NURSE's Day recruitment events hosted by Admissions each semester
- Each student within the program is required to complete 20 service hours in the community. Students are visible as representatives of the program.
- Declared freshman majors are welcome to attend and participate in Student Nurses Association meetings & events.

RETENTION:

- Developed and piloted the BSN Mentoring program in the fall 2017 semester. Based on feedback, the program will be relaunched in fall 2018
- BSN Success program implemented in fall 2017 with new sophomore students
- Implemented PassPoint PrepU with the spring 2018 admission cohort. This program has been used for several years in the upper level nursing courses with success.
- All BSN students are required to spend an additional hour each week in the lab to practice skills
- NURSETIM, a continuing education platform has been made available to all faculty to assist with further development of active learning strategies and additional retention tools.
- Continued use of HESI A2 Admission with critical thinking; this tool identifies students who enter the program weak in pre-requisite areas
- Continued requirement of remediation for students scoring ≤ 76 on exams
- Continued use of HURST Elevate program embedded in NURB 498
- Curriculum was reviewed, and a few adjustments were made as follows:
 - Increase NURB 260 from 2 credit hours to 3 credit hours in order to strengthen nutrition and fluid/electrolyte components
 - NURB 326 was also increased from one hour of lecture per week to two hours in order to cover efficiently
 - NURB 318 was developed. This course is a standalone pharmacology course which will strengthen student performance on the program exit exam and the national licensure exam.
 - Two required nursing electives were dropped from the curriculum. Implementation of changes began in Fall 2016.
 - The above curriculum changes brought the program in line with the 120 credits required for a bachelor's degree; prior to the changes, the program required 121 credits.

Notes:

Program did experience a headcount dip in 2016 after the Self-Study was made public. The community was under the impression that the program was being cut. This viewpoint from the community was verified by receiving multiple phone calls to the department asking about our status and community members asking

faculty/staff members about our status at community events.

While an effort has been made to advertise the RN-BSN program and the new MSN program; funds have not been allotted to promote the twice a year admission cycle for the pre-licensure BSN program. Recruitment is primarily by word of mouth, a grassroots effort made by current students, faculty, and staff. A greater effort should be made to promote the 2nd admission cycle.

Centralized scheduling of freshmen students hinders the development of a rapport between faculty advisors and incoming students; we would like students to feel a part of the department upon acceptance to MSU.