
The Academic Program Review Chair would like to thank the council members for their hard work and dedication to this process. Members of the council sacrificed, not only the time for the meetings, but the dozens of hours required to read each of the reports. The members are:

Ann Breitenwischer – FLITE (4-years)

Christiaan Desmond – Engineering Technology (3-years)

Debbie Dawson-Gunther – Engineering Technology (2-years)

Stephanie Gustman – Health Professions (1-year)

Heather Pavletic – Arts & Sciences (1-year)

Minji Sohni – Pharmacy (1-year)

MEMORANDUM

DATE: 8 November 2018
TO: Academic Senate
FROM: Academic Program Review Council
SUBJECT: Recommendations for English
CC: Heather Pavletic, Jody Ollenquist, Sandra Alspach, Kristi Haik, Roberta Teahen, Paul Blake

I. IDENTITY OF PROGRAM:

English (BA)

II. RECOMMENDATION OF ACADEMIC PROGRAM REVIEW COUNCIL:

Continue the Program: The program merits continuation.

III. RATING BASED ON CRITERIA:

- **Relationship to FSU Mission:** the program prepares students for continuing education and the workforce by offering a robust curriculum with choices desirable to industry and graduate schools alike.
- **Program Visibility and Distinctiveness:** the program emphasizes applied literacy, critical thinking, writing, and literary analyses. Its emphasis on written communication continues to be a strength as many courses are labeled as writing intensive.
- **Program Value:** as many of the courses in the program double as service courses to the university, the program value is very high to Ferris and higher education in general.
- **Program Enrollment:** enrollment has increased since 2013-14 and is at its highest level in 2017-18.
- **Characteristics, Quality, and Employability of Students:** while up to 83 percent of the graduates continued their education with a graduate degree, 94 percent of those indicating they sought employment following graduation were employed. Although the starting salary was somewhat low, they were able to secure employment in their field of study.
- **Quality of Curriculum and Instruction:** the quality of curriculum and instruction is high with faculty and graduate perceptions to confirm this.
- **Composition and Quality of Faculty:** the faculty are well qualified; however, the number has continued to decrease leaving several tenure lines open. The program has been able to hire some new faculty, but remains in need of more tenure lines.

IV. ASSESSMENT:

- The program has student-learning outcomes at the program-level.
- The program houses program outcome results in Nuventive Improve.
- The program has a short and long-term strategic plan.
- The program uses its curriculum map, which is used to facilitate continuous improvement.

V. APRC NOTES THE FOLLOWING STRENGTHS OF THE PROGRAM:

- The program reinforces professionalism and is student focused.
- Written communication emphasis and writing intensive courses.
- Support the Writing Center both face-to-face and online.

VI. APRC OFFERS THE FOLLOWING SUGGESTIONS FOR PROGRAM IMPROVEMENT: The program is encouraged to continue to provide opportunities for students to attend conferences and workshops with faculty. It is believed that this will showcase the program and aid in efforts to increase enrollment, already underway.

MEMORANDUM

DATE: 8 November 2018
TO: Academic Senate
FROM: Academic Program Review Council
SUBJECT: Recommendations for Business Administration, General Business, and Minors
CC: David Marion, Gayle Lopez, David Nicol, Sandra Alspach, Roberta Teahen, Paul Blake

I. IDENTITY OF PROGRAM:

Business Administration, Business Administration/Legal Studies (BS)
General Business (AAS)
International Business (Minor and Certificate)
Small Business Entrepreneurship (Minor)
Real Estate (Certificate)
Small Business Management (Certificate)
Leadership and Supervision (Certificate)

II. RECOMMENDATION OF ACADEMIC PROGRAM REVIEW COUNCIL:

Continue the Program: The program merits continuation.

III. RATING BASED ON CRITERIA:

- **Relationship to FSU Mission:** the program aligns with the Ferris mission by adapting to the ever-changing globalization of business, diversity of workforces, and by being proactive in workforce needs through monitoring the environment. Graduates can expect to leave with the overall skill set to manage the economies of today.
- **Program Visibility and Distinctiveness:** the program offers students a wide variety of faculty with an equally wide variety of business experiences. Through workshops and conferences, faculty keep their courses relevant with today's workforce needs.
- **Program Value:** the program seeks to constantly evolve in methods of delivering the latest knowledge through data collection and making curricular decision based on advisory board input and the above-mentioned data.
- **Program Enrollment:** the program has maintained high enrollment since the last review and is at its highest level.
- **Characteristics, Quality, and Employability of Students:** graduates enjoy a robust labor market and are highly sought after for their knowledge. Employer and advisory board survey comments included accolades for the quality of student entering the workforce.
- **Quality of Curriculum and Instruction:** the curriculum and instruction are of high quality.
- **Composition and Quality of Faculty:** the faculty are well qualified and in adequate numbers.

IV. ASSESSMENT:

- The program has student-learning outcomes at the program-level.
- The program houses program outcome results in Nuventive Improve.
- The program uses its curriculum map to facilitate continuous improvement.
- The program is developing a short and long-term strategic plan.

V. APRC NOTES THE FOLLOWING STRENGTHS OF THE PROGRAM:

- One of the first programs offered at Ferris. The program encourages the students to be interdisciplinary by taking minors from programs across campus.
- The program enjoys consistently rising numbers.

VI. APRC OFFERS THE FOLLOWING SUGGESTIONS FOR PROGRAM IMPROVEMENT:

- Continue efforts in data driven decision making.
- Continue to develop and implement the long and short-term strategic plan.

MEMORANDUM

DATE: 8 November 2018
TO: Academic Senate
FROM: Academic Program Review Council
SUBJECT: Recommendations for Leadership and Project Management Minor
CC: Lisa Eshbach, Gayle Lopez, David Nicol, Sandra Alspach, Roberta Teahen, Paul Blake

I. IDENTITY OF PROGRAM:

Leadership and Project Management Minor

II. RECOMMENDATION OF ACADEMIC PROGRAM REVIEW COUNCIL:

Continue the Program: The program merits continuation.

III. RATING BASED ON CRITERIA:

- **Relationship to FSU Mission:** the program is aligned with the Ferris Mission by having its objectives align with FSU and CoB's mission and the goal of stimulating student-centered learning environments by applying classroom theory to practice.
- **Program Visibility and Distinctiveness:** the program integrates multiple disciplinary topics to form an effective project management and modern leadership curriculum.
- **Program Value:** as the program is largely composed of courses from within CoB, there is little extra cost making this worthwhile material cost effective. The program has great value to the graduate as the outcomes are desired in most business environments.
- **Program Enrollment:** while current enrollment is down from a high in 2014-15, it remains strong.
- **Characteristics, Quality, and Employability of Students:** graduates may utilize the program outcomes in a variety of industries and businesses and are highly sought after by industry.
- **Quality of Curriculum and Instruction:** the curriculum and instruction are of high quality.
- **Composition and Quality of Faculty:** as most of the faculty teach elsewhere in CoB programs, their perspective and diversity are of high quality.

IV. ASSESSMENT:

- The program has student-learning outcomes at the program-level.
- The program houses program outcome results in Nuventive Improve.
- The program has a curriculum map and effectively uses data to make programmatic decisions.
- The program demonstrates data driven decision making by using the collected outcomes data to make curricular decisions.

V. APRC NOTES THE FOLLOWING STRENGTHS OF THE PROGRAM:

- Easy access through multiple delivery methods.
- Highly desirable in industry.
- The council would like to thank the program for submission of an outstanding report. It was exemplary in its thoroughness and data. The program adds value to College of Business, the university, and community.

The council would also like to thank the program for identifying, through Web Focus, the differences between the Fact Book and actual enrollment numbers.

VI. APRC OFFERS THE FOLLOWING SUGGESTIONS FOR PROGRAM IMPROVEMENT:

- The council would like to recommend marketing to industry cohorts if time permits. This will showcase the program and help local and world-wide businesses.
- The council would also like the program to work with other programs in CoB and the university to make a Lean Center a reality.

MEMORANDUM

DATE: 08 November 2018
TO: Academic Senate
FROM: Academic Program Review Council
SUBJECT: Recommendations for Music and Entertainment Industry Management
CC: Paul Kwant, Lianne Briggs, David Nicol, Sandra Alspach, Roberta Teahen, Paul Blake

I. IDENTITY OF PROGRAM:

Music and Entertainment Business (BS)

Formerly Music Industry Management (BS)

II. RECOMMENDATION OF ACADEMIC PROGRAM REVIEW COUNCIL:

Continue the Program with Reporting: The program merits continuation. However, documented problem areas exist, and the faculty and administration of the program will be asked to report as to program progress in solving these problems. In this case the problem area is related to: Data Collection

III. RATING BASED ON CRITERIA:

- **Relationship to FSU Mission:** the program aligns with the Ferris mission by being a career-oriented degree that fosters the desire for lifelong learning. Graduates are also prepared should they decide to continue their education in an advanced degree.
- **Program Visibility and Distinctiveness:** students enjoy internships in industry that prepare them for their respective careers. Many of the internships are with well-known companies within the entertainment and music industries.
- **Program Value:** the program has value to the CoB as well as the university. With over one-hundred students and one dedicated faculty the program relies on business core and Gen. Ed. to complete their program of study.
- **Program Enrollment:** enrollment is on the decline; however, under the direction of the new coordinator (1-year), there have been several positive changes to the program and enrollment is expected to rebound.
- **Characteristics, Quality, and Employability of Students:** Students enjoy enhanced employment opportunities with near zero percent unemployment rate.
- **Quality of Curriculum and Instruction:** curriculum and instruction are of high quality.
- **Composition and Quality of Faculty:** The faculty are well qualified; however, there is a need for additional faculty.

IV. ASSESSMENT:

- The program has just begun to collect data on student learning outcomes.
- Student-learning outcomes at the program-level are housed in Nuventive Improve.
- The program uses its curriculum map to facilitate continuous improvement.
- The program uses its curriculum map to facilitate continuous improvement.
- The program has continuous program improvement, which will include the use of program-level learning outcome analysis, once sufficient data are collected.

V. APRC NOTES THE FOLLOWING STRENGTHS OF THE PROGRAM:

- The program remains of high quality through a leadership transition.
- High quality desirable internships and collaborative efforts with Television Digital Media Production (TDMP).
- The program has implemented the above-mentioned assessment instruments and started the process of data collection, in addition to revitalizing the advisory board with industry leaders.

VI. APRC RECOMMENDS AN UPDATED REPORT REGARDING PROGRAM STATUS BASED ON THE FOLLOWING: Lack of adequate number of semesters of gathered data from which programmatic decisions are made.

VII. IT IS REQUESTED THAT THE PROGRAM SUBMIT A REPORT TO THE PROGRAM REVIEW COUNCIL NO LATER THAN SEPTEMBER 15, 2020, WHICH IS TO INCLUDE THE FOLLOWING:

- The process for program improvement based on outcomes assessment analysis.
- Evidence that program-level student-learning outcomes data are collected and utilized for continuous improvement.

MEMORANDUM

DATE: 8 November 2018
TO: Academic Senate
FROM: Academic Program Review Council
SUBJECT: Recommendations for Operations Supply Management
CC: Lisa Eshbach, Gayle Lopez, David Marion, David Nicol, Sandra Alspach, Roberta Teahen, Paul Blake

I. IDENTITY OF PROGRAM:

Operations and Supply Management BS and Minor
Lean Systems Minor
Lean Systems Certificate
Manufacturing and Operations Management Certificate
Global Logistics Certificate

II. RECOMMENDATION OF ACADEMIC PROGRAM REVIEW COUNCIL:

Continue the Program: The program merits continuation.

III. RATING BASED ON CRITERIA:

- **Relationship to FSU Mission:** the program directly relates to the Ferris Mission in giving the graduate real-world knowledge of business operations, and graduates are ready to take an active role in the business world.
- **Program Visibility and Distinctiveness:** the OSM graduate will leave Ferris with skills in critical thinking, problem solving, assessment and business decision making. With an emphasis in Lean Systems, Project Management, and Enterprise Integration, the program improves on its already high value.
- **Program Value:** the program remains productive and is of good value to the university with above average productivity.
- **Program Enrollment:** enrollment has risen from 2011-12 to 2016-17.
- **Characteristics, Quality, and Employability of Students:** graduates enjoy gainful employment in a variety of industries as their skill sets are in high demand everywhere.
- **Quality of Curriculum and Instruction:** the curriculum and instruction are of high quality and are monitored and assessed annually for necessary curricular changes through a data driven decision process.
- **Composition and Quality of Faculty:** the faculty are well qualified.

IV. ASSESSMENT:

- The program has student-learning outcomes at the program-level.
- The program has an active curriculum map, which is used to make data driven programmatic decisions.
- The program has a short and long-term strategic plan and utilizes an advisory board to aid in decision making.
- The program houses program outcome results in Nuventive Improve.

V. APRC NOTES THE FOLLOWING STRENGTHS OF THE PROGRAM:

- Increased enrollment since last APR
- Productivity is above average
- Lean Systems and other minors and certificates are accessible to many majors on campus.
- The program is close to obtaining a Lean Bronze Certificate

VI. APRC OFFERS THE FOLLOWING SUGGESTIONS FOR PROGRAM IMPROVEMENT: The program noted the need for a Lean Center. The council encourages the program to work with CoB and the university to create this and use it collaboratively with other colleges.

MEMORANDUM

DATE: 08 November 2018
TO: Academic Senate
FROM: Academic Program Review Council
SUBJECT: Recommendations for Early Childhood Education
CC: Amy Kavanaugh, Liza Ing, Arrick Jackson, Sandra Alspach, Roberta Teahen, Paul Blake

I. IDENTITY OF PROGRAM:

Early Childhood Education (BS and AAS)

II. RECOMMENDATION OF ACADEMIC PROGRAM REVIEW COUNCIL:

Continue the Program with Reporting: The program merits continuation. However, documented problem areas exist, and the faculty and administration of the program will be asked to report as to program progress in solving these problems. In this case the problem area is related to: Data Collection

III. RATING BASED ON CRITERIA:

- **Relationship to FSU Mission:** the program aligns with the Ferris mission by putting fully prepared early childhood teachers in the workforce. Graduates are also prepared should they decide to continue their education in an advanced degree.
- **Program Visibility and Distinctiveness:** with other programs limiting expansion in this area, Ferris has become a leader among early childhood education.
- **Program Value:** the program has value to the CoEHS as well as the Ferris community. The program has value to the university and community with its involvement in the Early Learning Center. Students have the opportunity to work first hand with the children they will encounter in their career.
- **Program Enrollment:** Enrollment has stable or increasing since the last APR.
- **Characteristics, Quality, and Employability of Students:** Students enjoy enhanced employment opportunities with near zero percent unemployment rate.
- **Quality of Curriculum and Instruction:** curriculum and instruction are of high quality.
- **Composition and Quality of Faculty:** The faculty are well qualified; however, there is a need for two full-time tenure lines.

IV. ASSESSMENT:

- The program has only just begun to collect data on student learning outcomes.
- Student-learning outcomes at the program-level are housed in Nuventive Improve.
- The program has a curriculum map that is used for data collection.
- The program has a short and long-term strategic plan.
- The program has continuous program improvement, which will include the use of program-level learning outcome analysis, once sufficient data are collected.

V. APRC NOTES THE FOLLOWING STRENGTHS OF THE PROGRAM:

- The program is well recognized in Michigan with state-wide offerings.

- Due to upcoming legislation/educational requirements graduates will be offered higher starting pay and there is a need for an MS degree. This will require additional faculty.

VI. APRC RECOMMENDS AN UPDATED REPORT REGARDING PROGRAM STATUS BASED ON THE FOLLOWING: Lack of adequate number of semesters of gathered data from which programmatic decisions are made.

VII. IT IS REQUESTED THAT THE PROGRAM SUBMIT A REPORT TO THE PROGRAM REVIEW COUNCIL NO LATER THAN SEPTEMBER 15, 2020, WHICH IS TO INCLUDE THE FOLLOWING:

- The process for program improvement based on assessment analysis results.
- Evidence that program-level student-learning outcomes data are collected and utilized for continuous improvement.

MEMORANDUM

DATE: 08 November 2018
TO: Academic Senate
FROM: Academic Program Review Council
SUBJECT: Recommendations for MS Career and Technical Education
CC: Katherine Manley, Liza Ing, Arrick Jackson, Sandra Alspach, Roberta Teahen, Paul Blake

I. IDENTITY OF PROGRAM:

Career and Technical Education (MS)

Total Quality Management in Education (Advanced Graduate Certificate)

II. RECOMMENDATION OF ACADEMIC PROGRAM REVIEW COUNCIL:

Continue the Program with Reporting: The program merits continuation. However, documented problem areas exist, and the faculty and administration of the program will be asked to report as to program progress in solving these problems. In this case the problem area is related to: Data Collection

III. RATING BASED ON CRITERIA:

- **Relationship to FSU Mission:** the program aligns with the Ferris mission by sharing a common goal of hands-on learning and employability. They offer educators in technology an opportunity to advance their knowledge in advanced topics of education.
- **Program Visibility and Distinctiveness:** the program was the first graduate degree at Ferris. The program enjoys several collaborative efforts and flexibility in delivery with hybrid and online offerings.
- **Program Value:** the program has value to the CoEHS as well as the Ferris community. The program operates efficiently and has served many faculty in other colleges.
- **Program Enrollment: Enrollment in the program is low due primarily to the removal of the requirement K-12 teachers must have an MS.**
- **Characteristics, Quality, and Employability of Students:** students enjoy enhanced employment opportunities with near zero percent unemployment rate.
- **Quality of Curriculum and Instruction:** curriculum and instruction are of high quality.
- **Composition and Quality of Faculty:** the faculty are well qualified and of adequate number.

IV. ASSESSMENT:

- The program has only just begun to collect data on student learning outcomes.
- Student-learning outcomes at the program-level are housed in Nuventive Improve.
- The program has a curriculum map that is used for data collection.
- The program has a short and long-term strategic plan.
- The program has continuous program improvement, which will include the use of program-level learning outcome analysis, once sufficient data are collected.

V. APRC NOTES THE FOLLOWING STRENGTHS OF THE PROGRAM:

- This program has solid presence in state-wide education. The program partnered with Western Michigan University to offer a Quality Track Certificate to meet Malcolm Baldrige National Quality Award for Educational programs criteria.

VI. APCR RECOMMENDS AN UPDATED REPORT REGARDING PROGRAM STATUS BASED ON THE FOLLOWING:

- Lack of adequate number of semesters of gathered data from which programmatic decisions are made.
- Enrollment trends

VII. IT IS REQUESTED THAT THE PROGRAM SUBMIT A REPORT TO THE PROGRAM REVIEW COUNCIL NO LATER THAN SEPTEMBER 15, 2020, WHICH IS TO INCLUDE THE FOLLOWING:

- The process for program improvement based on assessment analysis results.
- Evidence that program-level student-learning outcomes data are collected and utilized for continuous improvement.
- Enrollment numbers and efforts to increase enrollment.

MEMORANDUM

DATE: 8 November 2018
TO: Academic Senate
FROM: Academic Program Review Council
SUBJECT: Recommendations for HVAC/R
CC: Eric Quilitzsch, Joe Compton, Robert Eastley, Rich Goosen, Sandra Alspach, Roberta Teahen, Paul Blake

I. IDENTITY OF PROGRAM:

HVAC/R (BS and AAS)

II. RECOMMENDATION OF ACADEMIC PROGRAM REVIEW COUNCIL:

Continue the Program: The program merits continuation.

III. RATING BASED ON CRITERIA:

- **Relationship to FSU Mission:** the program aligns with the Ferris mission by providing education which leads directly to employment with the field. While some students may wish to pursue graduate degrees, most are employed immediately following graduation in their field of study.
- **Program Visibility and Distinctiveness:** it is one of the only 4-year HVAC/R programs in the country and offers the second two-years completely online and has done so for many years.
- **Program Value:** though program enrollment is down slightly, the program has great value to Ferris and their students. Productivity is high and they consistently recruit high quality students.
- **Program Enrollment:** enrollment is down slightly, but consistent with university numbers and online enrollment continues to increase.
- **Characteristics, Quality, and Employability of Students:** graduates are of high quality and highly sought after in industry. Comments show that those who hire graduates are very pleased with what they have.
- **Quality of Curriculum and Instruction:** the curriculum and instruction are of high quality.
- **Composition and Quality of Faculty:** the faculty are well qualified with many having multiple years of industry experience. They are in sufficient numbers to handle the current loading.

IV. ASSESSMENT:

- The program has student-learning outcomes at the program-level.
- The program houses program outcome results in Nuventive Improve.
- The program has a curriculum map, which is used for programmatic decision making.
- The program has a short and long-term strategic plan.
- The program utilizes Nuventive Improve data in its curriculum decision making.
- The program has a strong advisory board engaged in curriculum decisions.

V. APRC NOTES THE FOLLOWING STRENGTHS OF THE PROGRAM:

- Dedicated recruiter
- Their graduates consistently score highly on the national exam.

- Community service through energy audits and Freon recovery.

VI. APRC OFFERS THE FOLLOWING SUGGESTIONS FOR PROGRAM IMPROVEMENT: It was noted that enrollment in the BS (fully online) was likely down due to robust employment opportunities for AAS graduates. The council suggests working with employers to create BS cohorts that are partially or fully funded by the employer.

Accredited Programs

MEMORANDUM

DATE: 08 November 2018
TO: Academic Senate
FROM: Academic Program Review Council
SUBJECT: Recommendations for **Construction Management (BS)**
CC: Suzanne Miller, Robert Eastly, Rich Goosen, Sandra Alspach, Roberta Teahen, Paul Blake

I. IDENTITY OF PROGRAM:

Construction Management (BS)

II. ACCREDITATION IN GOOD STANDING:

The program above has submitted a self-study and a summary of their accreditation status as outlined in *Academic Program Review: A Guide for Accredited Programs*. The results of the accreditation visit were not available at the time APR was due.

III. RECOMMENDATION OF ACADEMIC PROGRAM REVIEW COUNCIL:

Continue the Program with reporting: The American Council for Construction Education had not yet issued a letter of good standing. The program should submit this letter when received.

IV. RATING BASED ON CRITERIA:

- **Accrediting Organization:** American Council for Construction Education
- **Enrollment:** In Fall 2017, enrollment was at its highest level in the last four years.
- **Strategic Plan:** The program follows an outlined strategic plan for quality program improvement.
- **Program-Level Student Learning Outcomes:** Evidence that the program uses program-level student learning outcomes as part of their overall program quality improvement plan. As this is requirement of the program's accreditation process, council accepts the visiting team's findings.
- **Perceptions of Overall Program Quality:** The Dean rated the program high quality.

V. APRC RECOMMENDS REPORTING BASED ON THE FOLLOWING:

- The program is submitted their self-study for the 2018 site visit. The results of that visit were not available at the time of APR.

VI. IT IS REQUESTED THAT THE PROGRAM SUBMIT A REPORT TO THE PROGRAM REVIEW COUNCIL NO LATER THAN SEPTEMBER 15, 2019 WHICH IS TO INCLUDE THE FOLLOWING: The letter stating their accreditation is intact and duration of the accreditation.

MEMORANDUM

DATE: 08 November 2018
TO: Academic Senate
FROM: Academic Program Review Council
SUBJECT: Recommendations for **Elementary Education (BS)**
CC: Brady Flachs, Liza Ing, Arrick Jackson, Sandra Alspach, Roberta Teahen, Paul Blake

I. IDENTITY OF PROGRAM:

Elementary Education (BS)

II. ACCREDITATION IN GOOD STANDING:

The program above has submitted a self-study and a summary of their accreditation status as outlined in *Academic Program Review: A Guide for Accredited Programs*. The results of the accreditation visit were not available at the time APR was due.

III. RECOMMENDATION OF ACADEMIC PROGRAM REVIEW COUNCIL:

Continue the Program: The program merits continuation based on accreditation in good standing.

IV. RATING BASED ON CRITERIA:

- **Accrediting Organization:** The Council for the Accreditation of Educator Preparation (CAEP)
- **Enrollment:** In Fall 2017, the program had its highest enrollment in four years.
- **Strategic Plan:** The program follows an outlined strategic plan for quality program improvement.
- **Program-Level Student Learning Outcomes:** Evidence that the program uses program-level student learning outcomes as part of their overall program quality improvement plan. As this is requirement of the program's accreditation process, council accepts the visiting team's findings.
- **Perceptions of Overall Program Quality:** The Dean rated the program high quality.

V. APRC RECOMMENDS REPORTING BASED ON THE FOLLOWING:

- The program submitted evidence of accreditation in good standing and followed the Guide for Accredited Programs.

Updates

MEMORANDUM

DATE: 08 November 2018
TO: Academic Senate
FROM: Academic Program Review Council
SUBJECT: Recommendations for **Mathematics**
CC: Kent Sun, Kirk Weller, Kristi Haik, Sandra Aslpach, Roberta Teahen, Paul Blake

I. IDENTITY OF PROGRAM:

Applied Mathematics (BS)
Actuarial Science (BS)
Applied Mathematics / Computer Sciences Concentration (BS)
Pre-Engineering (AS)
Computer Science (Minor)
Computer Science (Certificate)
Mathematics (Minor)

II. THE PROGRAM WAS REVIEWED DURING THE 2017/2018 CYCLE AND IT WAS RECOMMENDED THAT THE PROGRAM BE CONTINUED WITH REPORTING. A REPORT TO APRC, DUE 15 SEPTEMBER 2018, ASKED THE PROGRAM AND COLLEGE OF ARTS AND SCIENCES TO ADDRESS THE FOLLOWING:

Program-level student learning outcomes, assessment methods, and the process for program improvement based on assessment analysis results for the following programs:

- Applied Mathematics / Computer Sciences Concentration (BS)
- Pre-Engineering (AS)
- Computer Science (Minor)
- Computer Science (Certificate)
- Mathematics (Minor)

Update on the effectiveness of the administrative structure providing program oversight.

III. UPDATE:

The APR Council thanks the program for the report submitted. The program provided an update on the effectiveness of the administrative structure providing program oversight, program-level student learning outcomes, assessment methods, and the process for program improvement based on assessment analysis results specific to the following programs:

- Pre-Engineering (AS)
- Computer Science (Minor)
- Computer Science (Certificate)
- Mathematics (Minor)

IV. RECOMMENDATION OF ACADEMIC PROGRAM REVIEW COUNCIL:

Continue the Program: the program merits continuation.

General Recommendations

General recommendations are the result of the discussions during the face to face meetings with programs. The council is there to hear the concerns and needs of the programs and what follows is a common theme among the programs reviewed this and past cycles.

- I. Establish a program level marketing plan to include marketing assistance, and funds allocated directly to departments.
 - The council recommends a collaborative program be funded with the Marketing Department in CoB.
 - This would allow Marketing students the opportunity to get real-world experience and help programs around campus.
 - The Marketing program already does wonderful work with local NPOs to help them get their message out. It would be of great value to have a platform to help our programs do the same.
 - Traditionally, any marketing and advancement dollars come from S&E budgets. Over the years S&E has been reduced, or stayed the same (which is in itself a reduction). There is barely enough room in the budget to run the programs without including marketing. While Ferris has a Marketing and Advancement department, programs need to be able to travel to attend program specific events, develop material to distribute, and hold events here on campus to draw interested students to campus.
- II. Equipment Replacement and Repair Program
 - Like the President's Computer Replacement program for faculty, equipment dependent programs need to have their equipment updated, repaired or replaced on a scheduled basis. Programs with equipment needs are struggling to remain relevant and up-to-date with aging or malfunctioning equipment.
 - In addition to donations already received by departments, it is recommended that university establish a fund to update or replace outdated equipment, and repair equipment that is still of use.
- III. The university adopts a portfolio warehousing package (Digication or similar) for assessment and have a place where students and alumni can keep their work from their time at Ferris, indefinitely.
 - The university has portfolio storage capabilities currently; however, they are outdated and are limited in capability.
 - Programs like Digication can be used for outcomes assessment (course level through to university level) and warehousing portfolios (from all disciplines and programs).

Process Recommendations

- I. Revise the Academic Program Review Process to be more in line with the requirements of HLC Criterion 4.
 - APR has a rich history at Ferris beginning in 1988 and running continuously since 1995. This marks the twenty-second year of the process. Although the process has been dynamic, it is usually in the form of additional information being required from the programs. It has rarely, if ever, been in the form of reduction. After meeting with several departments and colleges, the council chair brought these concerns to the council, SEC, and Provost. All parties agree, the process needs to be improved and workload reduced.
- II. The council proposes reducing the length of the document to under 100 pages for non-accredited programs by eliminating outdated information and requirements, and focusing more on Criterion 4.
- III. The council proposes the elimination of the appendices containing syllabi and curriculum vitae.
 - With the implementation of Digital Measures, this information is kept current by the respective Deans' offices and is not necessary for APRC to review each cycle. The Dean's office will provide, in their APR statement, that Digital Measures is current and that all faculty are qualified. Should there be concern by the council regarding course level outcomes, the APR Chair will have read only access to each college's DM data.
- IV. The council recommends the process be split between fall and spring semesters.
 - In 1995, when APR became a continuous process, there were less than 150 programs. There are now over 180 programs at Ferris and growing. For the last ten-years, the council has met three-hours per night, two-nights per week for eleven-weeks.
 - The council has not had more than six-members in the last six-years. The council hopes the new work schedule will prompt better participation.
 - The meeting schedule should be no more than five weeks each semester, with the findings presented at a regular Senate meeting.
 - As a result, the Provost's response would be due at the end of the semester insuring more timely feedback to the programs.
- V. The council recommends that accredited programs submit their statement of accreditation, duration of the accreditation, enrollment, and efficiency calculations only.
 - Accredited programs should only report to APRC immediately after their accreditation findings are received.
 - They must report findings, including deficiencies/weaknesses and concerns, and how they were resolved. This, in addition to the above-mentioned items.
 - Accredited programs undergoing an interim review would also report those findings.