CEAS-14-028-IEE&EM

REQUEST TO COLLEGE CURRICULUM COMMITTEE FOR CURRICULAR IMPROVEMENTS

DEPARTMENT: IEE&EM **PROPOSED EFFECTIVE SEMESTER:** F15 **COLLEGE:** CEAS

PROPOSED IMPROVEMENTS

Academic Program
- ☐ New degree*
- ☐ New major*
- ☐ New curriculum*
- ☐ New concentration*
- ☐ New certificate
- ☐ New minor
- ☐ Revised major
- ☐ Revised minor
- ☐ Admission requirements
- ☐ Graduation requirements
- ☐ Deletion ☐ Transfer
- ☐ Other (explain**)

Substantive Course Changes
- ☐ New course
- ☐ Pre or Co-requisites
- ☐ Deletion (required by others)
- ☐ Course #, different level
- ☐ Credit hours
- ☐ Enrollment restriction
- ☐ Course-level restriction
- ☐ Prefix ☐ Title and description (attach current & proposed)
- ☐ General education (select one) Not Applicable
- ☐ Other (explain**)

Misc. Course Changes
- ☐ Title
- ☐ Description (attach current & proposed)
- ☐ Deletion (not required by others)
- ☐ Course #, same level
- ☐ Variable credit
- ☐ Credit/no credit
- ☐ Cross-listing
- ☐ COGE reapproval
- ☒ Other (explain**)

** **Other:** Changes to the Catalog Description of the ISM Minor

Title of degree, curriculum, major, minor, concentration, or certificate: Integrated Supply Management Minor

Existing course prefix and #: **Proposed course prefix and #:** **Credit hours:**

Existing course title:

Proposed course title:

Existing course prerequisite & co-requisite(s):

Proposed course prerequisite(s)
If there are multiple prerequisites, connect with "and" or "or". To remove prerequisites, enter "none."

Proposed course co-requisite(s)
If there are multiple corequisites, they are always joined by "and."

Proposed course prerequisite(s) that can also be taken concurrently:

Is there a minimum grade for the prerequisites or corequisites?
The default grades are D for undergraduates and C for graduates.

Major/minor or classification restrictions:
List the Banner 4 character codes and whether they should be included or excluded.

For 5000 level prerequisites & corequisites: Do these apply to: (circle one) undergraduates graduates both

Specifications for University Schedule of Classes:

a. Course title (maximum of 30 spaces):

b. Multi-topic course: ☐ No ☐ Yes

c. Repeatable for credit: ☐ No ☐ Yes

d. Mandatory credit/no credit: ☐ No ☐ Yes

e. Type of class and contact hours per week (check type and indicate hours as appropriate)

1. ☐ Lecture
2. ☐ Lab or discussion
3. ☐ Lecture/lab/discussion
4. ☐ Seminar or ☐ studio
5. ☐ Independent study
6. ☐ Supervision or practicum

CIP Code (Registrar's use only):

Chair/Director Stu E. Bolt Date 10/1/14

Chair, College Curriculum Committee Date

Dean Date: Graduate Dean: Date

Curriculum Manager: Return to dean ☐ Date Forward to: Date

Chair, COGE/ PEB / FS President Date

FOR PROPOSALS REQUIRING GSC/USC REVIEW:

* ☐ Approve ☐ Disapprove | Chair, GSC/USC Date

* ☐ Approve ☐ Disapprove | Provost Date

Revised May 2007. All previous forms are obsolete and should not be used.

1. Explain briefly and clearly the proposed improvement.

   The current catalog description for the Integrated Supply Management (ISM) minor can be misleading to some with respect to the total number of credits hours required for the minor. This proposal presents a new description for the minor that better represents the minor requirements. No changes are being made to the requirements or the courses currently used to complete the minor.

2. Rationale. Give your reason(s) for the proposed improvement. (If your proposal includes prerequisites, justify those, too.)

   Depending on how you interpret the current minor description, it could appear as if the minor requires as many as 33 credit hours to complete. The actual requirements are 15 hours for those students in Engineering Management Technology (BS), Manufacturing Engineering Technology (BS), and Industrial & Entrepreneurial Engineering (BSE) and 18 credit hours for CEAS students not in the three previously stated programs. In this proposal, a new description is presented to reduce the chance that program requirements are misunderstand.

3. Effect on other colleges, departments or programs. If consultation with others is required, attach evidence of consultation and support. If objections have been raised, document the resolution. Demonstrate that the program you propose is not a duplication of an existing one.

   NA

4. Effect on your department's programs. Show how the proposed change fits with other departmental offerings.

   Description change only.

5. Effects on enrolled students: Are program conflicts avoided? Will your proposal make it easier or harder for students to meet graduation requirements? Can students complete the program in a reasonable time? Show that you have considered scheduling needs and demands on students' time. If a required course will be offered during summer only, provide a rationale.

   NA

6. Student or external market demand. What is your anticipated student audience? What evidence of student or market demand or need exists? What is the estimated enrollment? What other factors make your proposal beneficial to students?

   NA

7. Effects on resources. Explain how your proposal would affect department and University resources, including faculty, equipment, space, technology, and library holdings. Tell how you will staff additions to the program. If more advising will be needed, how will you provide for it? How often will course(s) be offered? What will be the initial one-time costs and the ongoing base-funding costs for the proposed program? (Attach additional pages, as necessary.)

   NA

8. General education criteria. For a general education course, indicate how this course will meet the criteria for the area or proficiency. (See the General Education Policy for descriptions of each area and proficiency and the criteria. Attach additional pages as necessary. Attach a syllabus if (a) proposing a new course, (b) requesting certification for baccalaureate-level writing, or (c) requesting reapproval of an existing course.)

   NA

9. List the learning outcomes for the proposed course or the revised or proposed major, minor, or concentration. These are the outcomes that the department will use for future assessments of the course or program.

   NA

10. Describe how this curriculum change is a response to assessment outcomes that are part of a departmental or college assessment plan or informal assessment activities.

    NA

11. (Undergraduate proposals only) Describe, in detail, how this curriculum change affects transfer articulation for Michigan community colleges. For course changes, include detail on necessary changes to transfer articulation from Michigan community college courses. For new majors or minors, describe transfer guidelines to be developed with Michigan community colleges. For revisions to majors or minors, describe necessary revisions to Michigan community college guidelines. Department chairs should seek assistance from college advising directors or from the admissions office in completing this section.

    NA

OLD Catalog Copy

Integrated Supply Management Minor

This program integrates business and technological concepts for a successful career in supply chain management. A major is designed for students in the Haworth College of Business and a minor serves students with majors in the College of Engineering and Applied Sciences.

Core - 15 hours (take all of the following):

- MKTG 2500 - Marketing Principles **Credits:** 3 hours
- MKTG 3720 - Purchasing Management **Credits:** 3 hours
- MKTG 4630 - Manufacturing Logistics **Credits:** 3 hours

And either:

- EDMM 3260 - Operations Planning and Control **Credits:** 3 hours

  or

- IEE 4160 - Operations Control in Industry **Credits:** 4 hours

And either:

- IEE 2620 - Probability and Quality for Engineers **Credits:** 3 hours

  or

- IEE 2621 - Probability for Engineers **Credits:** 2 hours

  and IEE 2622 – Statistical Quality Control **Credits:** 2 hours

  or

- EDMM 3280 - Quality Assurance and Control **Credits:** 3 hours

Capstone class - 3 hours (take one of the following):

- EDMM 4880 - Applied Process Reengineering **Credits:** 3 hours
- or
- MKTG 4880 - Applied Process Reengineering **Credits:** 3 hours

Electives - 15 hours

Select course(s) to total fifteen (15) hours not required for the student's major or program.

- EDMM 4870 - Manufacturing Productivity Techniques **Credits:** 3 hours
- EM 5050 - Continuous Improvement in Operations **Credits:** 3 hours
- EM 5080 - Advanced Quality Management **Credits:** 3 hours
- MGMT 2800 - Introduction to Supply Management **Credits:** 3 hours
- MGMT 3810 - Improving Supply Systems **Credits:** 3 hours

NEW Catalog Copy

Integrated Supply Management Minor

This program integrates business and technological concepts for a successful career in supply chain management. A major is designed for students in the Haworth College of Business and the minor is limited to students with majors in the College of Engineering and Applied Sciences. In completing the core course requirements for this minor, students may complete one or more of these courses through the course requirements of their undergraduate major or program. However, if the total number of credit hours earned for courses outside the student's major (or program) does not total at least 15, then the student must take courses from the prescribed electives to bring this total to 15 or more.

Core (take all of the following):

- MKTG 2500 - Marketing Principles **Credits:** 3 hours
- MKTG 3720 - Purchasing Management **Credits:** 3 hours
- MKTG 4630 - Manufacturing Logistics **Credits:** 3 hours

And either:

- EDMM 3260 - Operations Planning and Control **Credits:** 3 hours

  or

- IEE 4160 - Operations Control in Industry **Credits:** 4 hours

And either:

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  or

- IEE 2621 - Probability for Engineers **Credits:** 2 hours

  and IEE 2622 – Statistical Quality Control **Credits:** 2 hours

  or

- EDMM 3280 - Quality Assurance and Control **Credits:** 3 hours

And either:

- EDMM 4880 - Applied Process Reengineering **Credits:** 3 hours

  or

- MKTG 4880 - Applied Process Reengineering **Credits:** 3 hours

Electives

Select course(s) to achieve a total of 15 hours earned beyond the courses taken in the student's major or program.

- EDMM 4870 - Manufacturing Productivity Techniques **Credits:** 3 hours
- EM 5050 - Continuous Improvement in Operations **Credits:** 3 hours
- EM 5080 - Advanced Quality Management **Credits:** 3 hours
- MGMT 2800 - Introduction to Supply Management **Credits:** 3 hours
- MGMT 3810 - Improving Supply Systems **Credits:** 3 hours