NOT FOR USE FOR CURRICULAR COURSE CHANGES
REQUEST FOR PROGRAM IMPROVEMENTS

NOTE: Changes to programs may require course changes, which must be processed electronically. Any questions should be directed to Associate Provost David Reinhold at 7-4564 or david.reinhold@wmich.edu

DEPARTMENT: CHP
COLLEGE: CEAS
PROPOSED EFFECTIVE FALL YEAR: 2019

PROPOSED IMPROVEMENTS: Academic Program Proposed Improvements

☐ New degree*
☐ New major*
☐ New curriculum*
☐ New concentration*
☐ New certificate
☐ Revised major
☐ New minor
☐ Revised minor
☐ Admission requirements
☐ Graduation requirements
☐ Deletion (required by others)
☐ Deletion (not required by others)
☐ Change in Title
☐ Transfer

☐ Other (explain**)

** Other:
Title of degree, curriculum, major, minor, concentration, or certificate: BS in Chemical Engineering (CHGJ) and BS in Paper Engineering (PPRJ)

Chair, Department Curriculum Committee: [Signature] Date 7/26/18

CHECKLIST FOR DEPARTMENT CHAIRS/DIRECTORS

☐ For new programs and other changes that have resource implications, the dean has been consulted.
☐ When appropriate, letters of support from department faculty are attached.
☐ When appropriate, letters of support from other departments in the same college are attached.
☐ When appropriate, letters of support from other college deans, whose programs/courses may be affected by the change, are attached.
☐ The proposal has been reviewed by HIGE for possible implications for international student enrollment.
☐ The proposal is consistent with the departmental assessment plan, and identifies measurable learning outcomes for assessment.
☐ Detailed resource plan is attached where appropriate.
☐ All questions attached have been completed and supporting documents are attached.
☐ The proposal is written and complete as outlined in the Faculty Senate guidelines and the curriculum change guides.

Chair/Director: [Signature] Date 9/26/18

CHECKLIST FOR COLLEGE CURRICULUM COMMITTEE

☐ The academic quality of the proposal and the faculty involved has been reviewed.
☐ Detailed resource plan is attached where appropriate.
☐ Consistency between the proposal and the relevant catalog language has been confirmed.
☐ The proposal has been reviewed for effect on students transferring from Michigan community colleges. Detailed information on transfer articulation must be included with undergraduate proposals.
☐ Consistency between the proposal and the College and department assessment plans has been confirmed.
☐ Consistency between the proposal and the College and department strategic plans has been confirmed.
☐ All questions attached have been completed and supporting documents are attached.
☐ The proposal is written and complete as outlined in the Faculty Senate guidelines and the curriculum change guides.

Revised March 2018. All previous forms are obsolete and should not be used.
CHECKLIST FOR COLLEGE DEANS

☐ For new programs and proposed program deletions, the provost has been consulted.

☐ For new programs, letter of support from University Libraries Dean indicating library resource requirements have been met.

☐ When appropriate, letters of support from other college faculty and/or chairs are attached.

☐ When appropriate, letters of support from other college deans, whose programs/courses may be affected by the change, are attached.

☐ The proposal has been reviewed for implications for accreditation, certification, or licensure.

☐ Detailed resource plan is attached where appropriate.

☐ All questions attached have been completed and supporting documents are attached.

☐ The proposal is written and complete as outlined in the Faculty Senate guidelines and the curriculum change guides.

Dean: ________________________________ Date: ________________________________

FOR PROPOSALS REQUIRING REVIEW BY:
GSC/USC; EPGC, GRADUATE COLLEGE, and/or FACULTY SENATE EXECUTIVE BOARD

☐ Return to Dean

☐ Forward to: Curriculum Manager: ________________________________ Date: ________________________________

☐ Approve ☐ Disapprove Chair, GSC/USC: ________________________________ Date: ________________________________

☐ Approve ☐ Disapprove Chair, EPGC: ________________________________ Date: ________________________________

☐ Approve ☐ Disapprove Graduate College Dean: ________________________________ Date: ________________________________

☐ Approve ☐ Disapprove Faculty Senate President: ________________________________ Date: ________________________________

☐ Approve ☐ Disapprove Provost: ________________________________ Date: ________________________________

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1. Explain briefly and clearly the proposed improvement:
   Add IEE 2610 to Pre-Engineering courses for CHEG and PAPR programs

2. Rationale. Give your reason(s) for the proposed improvement.
   IEE 2610 is needed for every experimental lab at Junior and senior level for both PAPR and CHG programs. Currently, it is designated as a pre-requisite for only one senior level lab (CHEG 4810/4811). We are addressing the situation.

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.
   NONE

4. Effect on your department’s programs. Show how the proposed change fits with other departmental offerings.
   As in 2.

5. Alignment with college’s and department’s strategic plan, mission, and vision.
   Helps retention and years to degree

6. 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.
   NONE

7. 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?
   This helps students to stay on track for graduation

8. Effects on resources. Explain how your proposal would affect department and University resources, including faculty, equipment, space, technology, and library holdings. If proposing a new program, include a letter and/or email of support from the university libraries affirming that the library resource issues have been reviewed. Tell how you will staff additions to the program. If more advising will be needed, how will you provide for it? What will be the initial one-time costs and the ongoing base-funding costs for the proposed program? (Attach additional pages, as necessary.)
   Not Applicable

9. List the learning outcomes for the revised or proposed major, minor, or concentration. The department will use these outcomes for future assessments of the program.
   This will not change the assessment outcomes as it is already part of the CHEG and PAPR programs.

10. Describe how this change is a response to assessment outcomes that are part of a department or college assessment plan or informal assessment activities.
   This is a result of our annual internal assessment activities on the courses in the curriculum.

11. (Undergraduate proposals only) Describe in detail how this change affects transfer articulation for Michigan community colleges. 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.
   Not Applicable

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UNDERGRADUATE CATALOG page 415
Pre-Engineering Curriculum Requirements Displayed below are the courses required in the Pre-engineering curriculum for all students planning to pursue one of the engineering curricula listed above. See the respective department catalog entry for full degree requirements.

Common Requirements For All Curricula MATH 1220 or 1700, 1230 or 1710, and 2720 12 hours
CHEM 1100 and 1110 4 hours General Education AREA I, II, III, IV, or V 6-8 hours Additional Courses Required By Curricula

Chemical Engineering CHEM 1120 and CHEM 1130; CHEG 1010, CHEG 1810, CHEG 2810; IEE 1020 and IEE 2610; and PHYS 2050 and PHYS 2060. See the Department of Chemical and Paper Engineering for complete Chemical Engineering curriculum requirements.

Paper Engineering CHEG 1810; CHEG 2611; CHEM 1120 and CHEM 1130; IEE 1020 and IEE 2610; PHYS 2050 and PHYS 2060; and PAPR 2040. See the Department of Chemical and Paper Engineering for complete Paper Engineering curriculum requirements.