

REQUEST TO COLLEGE CURRICULUM COMMITTEE FOR CURRICULAR IMPROVEMENTS

DEPARTMENT: Civil and Construction Engineering PROPOSED EFFECTIVE SEMESTER: Spring 2016

COLLEGE: Engineering & Applied Sciences

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:

Title of degree, curriculum, major, minor, concentration, or certificate: PhD in Engineering and Applied Sciences

Existing course prefix and #: Proposed course prefix and #: CCE 7300 Credit hours: 1-18

Existing course title:

Proposed course title: Doctoral Dissertation

Existing course prerequisite & co-requisite(s):

Proposed course prerequisite(s) Doctoral Students only

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): Doctoral Dissertation

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 *Chun Aoudryel* Date 1-9-2015

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 _____

1. Explain briefly and clearly the proposed improvement.
This proposal creates a new course, CCE 7300 Doctoral Dissertation to be used by students interested in specializing in civil engineering under the CEAS PhD in Engineering and Applied Sciences (EAS).
2. Rationale. Give your reason(s) for the proposed improvement. (If proposal includes prerequisites, justify those, too.)
This course is the dissertation component of the PhD in EAS.
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.
This course will be the dissertation research component for students interested in doctoral work in civil engineering under the CEAS PhD in EAS. It will replace the ENGR 7300 that we currently use for those students. It will have no effect on department's programs.
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.
No effect on currently enrolled students since this course will be used instead of ENGR 7300.
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?
The estimated annual enrollment will be 10 students.
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.)
This is a dissertation-based course that will only involve faculty who sponsor PhD students. While enrollment in this course may be high at times, the students are essentially working independently on their research projects under the supervision of their dissertation advisors who only accept students if they have capacity and expertise. We are not expecting an impact on resources other than the normal positive impact associated with growth in research programs and facilities.
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.)
Not Applicable
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.
Student will develop a dissertation manuscript at the conclusion of the PhD research project.
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.
This is a new dissertation course to support the PhD in EAS program.
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.

Catalog Course Description

CCE 7300 Doctoral Dissertation (1-18 hours).

Open to Graduate Students Only - Please refer to The Graduate College section for course descriptions.

Pre-requisites: Doctoral Students Only.