REQUEST TO COLLEGE CURRICULUM COMMITTEE FOR CURRICULAR IMPROVEMENTS

DEPARTMENT: CS   **PROPOSED EFFECTIVE SEMESTER:** Spring 2015   **COLLEGE:** CEAS

PROPOSED IMPROVEMENTS

Academic Program	*Substantive Course Changes*	*Misc. Course Changes*
☐ New degree*	☐ New course	☒ Title
☐ New major*	☒ Pre or Co-requisites	☐ Description (attach current & proposed)
☐ New curriculum*	☐ Deletion (required by others)	☐ Deletion (not required by others)
☐ New concentration*	☐ Course #, different level	☐ Course #, same level
☐ New certificate	☐ Credit hours	☐ Variable credit
☐ New minor	☐ Enrollment restriction	☐ Credit/no credit
☐ Revised major	☐ Course-level restriction	☐ Cross-listing
☐ Revised minor	☐ Prefix ☐ Title and description	☐ COGE reapproval
☐ Admission requirements	(attach current & proposed)	☒ Other (explain**)
☐ Graduation requirements	☐ General education (select one)	
☐ Deletion ☐ Transfer	Not Applicable	
☐ Other (explain**)	☐ Other (explain**)	

** Other: A minimum grade of C in the prerequisites.

Title of degree, curriculum, major, minor, concentration, or certificate:

Existing course prefix and #: CS5400 **Proposed course prefix and #:**   **Credit hours:**

Existing course title: Designing of User Interfaces
Proposed course title: Design of User Interfaces

Existing course prerequisite & co-requisite(s): CS 3400 or permission of instructor for undergraduate students. No Prerequisite for graduate students in Computer Science.
Proposed course prerequisite(s) : CS3310
    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?
    A minimum grade of C in the prerequisites.
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): Design of User Interfaces
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   3. ☒ Lecture/lab/discussion   5. ☐ Independent study
    2. ☐ Lab or discussion 4. ☐ Seminar or ☐ studio   6. ☐ Supervision or practicum

CIP Code (Registrar's use only):

Chair/Director	Date 2/27/15
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.

   Change the title and prerequisite of CS5400 to Design of User Interfaces and CS3310 respectively.
   A minimum grade of C in the prerequisites.

2. Rationale. Give your reason(s) for the proposed improvement. (If your proposal includes prerequisites, justify those, too.)
   The current CS5400 course concentrates on the state-of-art technology about GUI development such as Eclipse Plugin development, Rich Client Platform development, and Android GUI development. So, CS5400 does not require any material from CS3400 since it emphasizes on the design of a GUI. Undergraduate students from CS3310 have learned some basic programming in GUI applications and it should be good enough to take CS5400.

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.

   CS5400 provides a good opportunity for students to study how to design and implement the state-of-art technology in GUI programming.

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.

   It will attract more under-graduate students to take this course and there is no conflict with other courses.

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?

   No change.

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.)

   None.

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.) N/A

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. N/A

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. N/A

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. N/A

The current course catalog:

CS 5400 - Designing of User Interfaces

An introduction to the specification, development, and evaluation of user interfaces. This course provides an overview of human capabilities, technological possibilities, interaction design, and interface evaluation. The course presents both the theoretical foundations of interaction design and practical case studies of good and bad interface design. During the course, students will design and test one or more interfaces.

Prerequisites/Corequisites: Prerequisite: CS 3400 or permission of instructor for undergraduate students. No Prerequisite for graduate students in Computer Science.

Proposed new course catalog:

CS 5400 - Design of User Interfaces

An introduction to the specification, development, and evaluation of user interfaces. This course provides an overview of human capabilities, technological possibilities, interaction design, and interface evaluation. The course presents both the theoretical foundations of interaction design and practical case studies of good and bad interface design. During the course, students will design and test one or more interfaces.

Prerequisites/Corequisites: Prerequisite: CS 3310 or permission of instructor for undergraduate students. No Prerequisite for graduate students in Computer Science.