REQUEST TO COLLE	GE CURRICULUM COMMINIT TEE FOR C	URRICULAR 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 B in the prerequisite courses		
Title of degree, curriculum, major, minor, concentration, or certificate:		
Existing course prefix and #: CS6530 Proposed course prefix and #: Credit hours:		
Existing course title: Data Mining Proposed course title:		
Existing course prerequisite & co-requisite(s): CS 5430 with a grade of "B" or better. Proposed course prerequisite(s): CS5310 and CS5541 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 B in the prerequisite courses. 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): Data Mining 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 267//
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	C/USC REVIEW:	
* Approve Disapprove Chai	r, GSC/USC	Date
* Approve Disapprove Prov	ost	Date

1. Explain briefly and clearly the proposed improvement.

This proposed improvement is to make the following changes to CS6530 (Data Mining): (1) change the prerequisite from CS 5430 with a grade of "B" or better, to CS5310 and CS5541, and (2) change the catalog description to "Introduces fundamental concepts, techniques, algorithms, and systems for data mining in databases. Topics include data pre-processing, data warehousing and online analytical processing, association mining, data classification, data clustering, and visual data exploration." from its current description "Introduces fundamental concepts, techniques, algorithms, and systems for data mining in databases. Topics include data pre-processing, data warehousing and OLAP, association mining, data classification, data clustering, and visual data exploration. Open to Graduate students only."

A minimum grade of B in the prerequisite courses.

- 2. Rationale. Give your reason(s) for the proposed improvement. (If your proposal includes prerequisites, justify those, too.)
 - Prerequisites: CS5310 and CS5541 are new foundation courses that are required for all graduate students.
 They serve better as prerequisites.
 - Description: Two minor changes: (1) spell out OLAP; (2) Delete the redundant "Open to Graduate students only".
- 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.

The perspective students will have a better understanding of what they expect to learn from the course.

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.

We expect more enrollments with the new prerequisite.

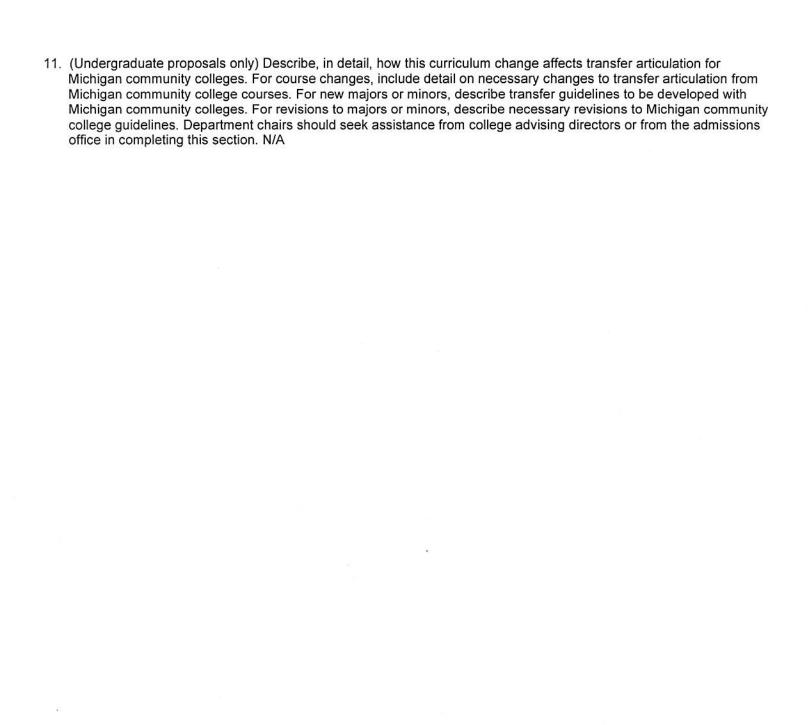
6. Student or external market demand. What is your anticipated student audience? What evidence of student or market demand or need exists? What is the estimated enrollment? What other factors make your proposal beneficial to students?

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



Current catalog description

CS 6530 - Data Mining

Introduces fundamental concepts, techniques, algorithms, and systems for data mining in databases. Topics include data pre-processing, data warehousing and OLAP, association mining, data classification, data clustering, and visual data exploration.

Prerequisites/Corequisites: Prerequisite: CS 5430 with a grade of "B" or better.

Credits: 3 hours

Notes: Open to Graduate students only.

Proposed catalog description

CS 6530 - Data Mining

Introduces fundamental concepts, techniques, algorithms, and systems for data mining in databases. Topics include data pre-processing, data warehousing and online analytical processing, association mining, data classification, data clustering, and visual data exploration.

Prerequisites/Corequisites: Prerequisite: CS5310 and CS5541

Credits: 3 hours

Notes: Open to Graduate students only.