CEAS-14-CS-073

Date

REQUEST TO COLLEGE CURRICULUM COMMITTEE FOR CURRICULAR IMPROVEMENTS		
DEPARTMENT: CS PROPOSED EFFECTIVE SEMESTER: Spring 2015 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 Chall New course Pre or Co-requisites Deletion (required by Course #, different lev Credit hours Enrollment restriction Course-level restriction Prefix Title and de (attach current & proposition of the course) General education (see Not Applicable Other (explain**)	Title □ Description (attach current & proposed) others) □ Deletion (not required by others) vel □ Course #, same level □ Variable credit □ Credit/no credit □ Cross-listing scription □ COGE reapproval posed) □ Other (explain**)
** Other: A minimum grade of C in the prerequisite courses		
Title of degree, curriculum, major, minor, concentration, or certificate:		
Existing course prefix and #: CS5820 Proposed course prefix and #: Credit hours:		
Existing course title: Artificial Intelligence		
Proposed course title:		
Proposed course prerequisite(s): If there are multiple prerequisites, connect with "and" or "or". To remove prerequisites, enter "none." Proposed course co-requisite(s) CS3310 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 prerequisite course. 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): Artificial Intelligence		
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 cr hrs 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 Add Date 2/27/1		
Chair, College Curriculum Committee Date		Date
Dean	Date: Graduate Dean:	Date
Curriculum Manager: Return to	dean Date Forward to:	Date
Chair, COGE/ PEB / FS President Date		
FOR PROPOSALS REQUIRING		T News to
* Approve Disapprove	Chair, GSC/USC	Date
* Approve Disapprove	Provost	Date

1. Explain briefly and clearly the proposed improvement.

This proposed improvement is to change the catalog description to "This course covers basic AI techniques and concepts including rule-based systems, intelligent search, heuristics, knowledge representation and reasoning, predicate logic and pattern recognition. It introduces several AI application areas such as learning, vision, natural language processing, games, and expert systems."

A minimum grade of C in the prerequisite course.

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

With the rapid development in this field, the topics and application areas included in the current description, "Provides an overview of artificial intelligence including basic A.I. techniques and concepts, e.g., production systems, heuristic searching techniques, knowledge representation, predicate calculus, and pattern recognition. Introduces A.I. application areas such as game playing, expert systems, vision, natural language processing, and learning", have become outdated. The new description addresses this issue by listing the main topics and application areas in the current teaching.

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.

No change.

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

Current Catalog Description

CS 5820 - Artificial Intelligence

Provides an overview of artificial intelligence including basic A.I. techniques and concepts, e.g., production systems, heuristic searching techniques, knowledge representation, predicate calculus, and pattern recognition. Introduces A.I. application areas such as game playing, expert systems, vision, natural language processing, and learning.

Prerequisites/Corequisites: Prerequisite: CS 3310.

Credits: 3 hrs.

Notes: Open to Upperclass and Graduate Students. Undergraduates with junior or senior status who have met the specific course Prerequisites or have the permission of the instructor may enroll in 5000-level courses.

Proposed Catalog Description

CS 5820 - Artificial Intelligence

This course covers basic AI techniques and concepts including rule-based systems, intelligent search, heuristics, knowledge representation and reasoning, predicate logic and pattern recognition. It introduces several AI application areas such as learning, vision, natural language processing, games, and expert systems.

Prerequisites/Corequisites: Prerequisite: CS 3310.

Credits: 3 hrs.

Notes: Open to Upperclass and Graduate Students. Undergraduates with junior or senior status who have met the specific course Prerequisites or have the permission of the instructor may enroll in 5000-level courses.