REQUEST FOR A COURSE CHANGE
University of Central Oklahoma

Course Subject (Prefix), Number, and Title:

Existing:  
Course Subject: CMSC  
Number: 3613  
Data Structures & Algorithms

Proposed:  

Proposed Title: (full course title if longer than 30 characters)

Proposed change(s) to this course: Mark all that apply.

Credit Hour Level Title Description Prerequisite Restriction

Other: ____________________

CIP Code  
If changing, what is the new code?

For more information regarding CIP codes contact your department chair or visit: 
http://www.uco.edu/academic-affairs/ir/program_inventory.asp.

Course description:

As it appears in the current catalog. (required)

This course is a continuation of Programming II and is a study of more efficient algorithms for storing and retrieving information. The theory and application of graphs are presented. Time and space complexity analyses are performed on all algorithms.

As it will appear in the next catalog or indicate no change. (Please use standard American English including full sentences.)

Course descriptions only. Do not include prerequisites or enrollment restrictions, these should be added under questions 9-15.

Proposed: No change.

Computer Science
Department submitting the proposal

Gang Qian  
ggqian@uco.edu

Person to contact with questions  
email address  
5716  
Ext. number

Approved by:

Digitally signed by Gang Qian  
Date: 2020.07.08 00:22:42 -05'00'  
Digitally signed by Britney Hopkins  
Date: 2020.09.22 17:02:37-05'00'

Department Chairperson  
Date

College Curriculum Committee Chair  
Date  
(Please notify department chair when proposal is forwarded to dean.)

College Dean  
Date  
(Please notify department chair when proposal is forwarded to AA.)

Academic Affairs Curriculum or Graduate Council  
Date

Office of Academic Affairs  
Date  
Effective term for this course change  
(Date assigned by the Office of Academic Affairs)

Academic Affairs Form:  
August, 2015

Functional Review  
CF 9/23/20
(undergraduate proposals only)
1. Does this course have an undergraduate/graduate counterpart?
   Yes X No

2. Is this proposal part of a larger submission package including a program change?
   X Yes __ No

3. Does this course affect a teacher preparation program? (All courses required for any teacher preparation program must have approval from the Council on Teacher Education (CTE) before approval from AACC or Graduate Council.)
   Yes X No If yes, send copy of proposal to the Education Curriculum Committee Chair, Dr. Darla Fent
   CTE Approval (Stamp or initial)

4. Is this course currently listed in the University Core?
   If you wish this course be listed in the University Core, submit University Core course proposal.
   Yes X No

5. Is this course a prerequisite for any other course(s)?
   If this change affects the prerequisite, complete course change proposal to delete or change prerequisite.
   X Yes ___ No

6. Is this course a requirement in any major or minor?
   If this change impacts the requirement of any major or minor, complete program change proposal.
   X Yes ___ No

7. Does this course affect majors or minors outside the department?
   If yes, provide name(s) of department chair(s) contacted, the dates, and the results of the discussion.
   Dr. Jesse Byrne, Chair of the Math and Statistics Department, was informed of the change by email on February 28, 2020. Dr. Byrne expressed no objection to the proposal.
   X Yes ___ No

8. List all majors or minors which include this changed course as a requirement or elective.
   (list major or minor by title not major code)
   Computer Science, Computer Science – Applied, Computer Science – Information Science, Software Engineering, Data Science, and Computer Science minor

9. Prerequisite courses:
   Will the prerequisite courses change? X Yes ___ No
   If yes, fill out below, if no leave blank.

   NOTE: Adding a "new course" as a prerequisite to an existing course will likely cause enrollment problems.
   As listed at the end of the course description in the current catalog. (Required)

   Existing:
   CMSC 2123 and 2613 and MATH 2323 and (STAT 2103 or 2113 or 4113)
   Proposed:
   CMSC 2123 and 2613 and MATH 2323 and (STAT 2103 or 2113 or 4113 or ENGR 3303)

10. Co-requisite(s): Prerequisite courses that may be taken in the same semester.
   Will the co-requisite(s) change? ___ Yes X No
   If yes, fill out below, if no leave blank.

   Existing:
   Proposed:

   As listed at the end of the course description in the current catalog. (Required)

11. Concurrent enrollment: Courses that must be taken the same semester. Example: lab courses.
   Will the concurrent enrollment change? ___ Yes X No
   If yes, fill out below, if no leave blank.

   Existing:
   Proposed:

   As listed at the end of the course description in the current catalog. (Required)
12. Does this course currently have enrollment restrictions?
   ___ Yes   X No

If adding or changing enrollment restrictions answer questions 13-15. If not changing or add enrollment restrictions leave questions 13-15 blank.

13. Specify which major(s) may or may not take this course.
Will the major(s) restriction change?       ___ Yes   X No

Specifying a major, excludes all other majors from enrolling.

Existing (as appears in current catalog)
Check one: May ____ May not ____
Major Code: __________________________

Proposed (if changing)
Check one: May ____ May not ____
Major Code: __________________________

14. Which of the following student classification(s) may enroll in this course?
Will the classification restriction change? ___ Yes   X No

Existing (as appears in current catalog)
Check all that apply:
Graduate (2) 19 + hours _____
Graduate (1) 0-18 hours _____
Post Baccalaureate _____
Senior _____
Junior _____
Sophomore _____
Freshman _____

Proposed (if changing)
Check all that apply:
Graduate (2) 19 + hours _____
Graduate (1) 0-18 hours _____
Post Baccalaureate _____
Senior _____
Junior _____
Sophomore _____
Freshman _____

15. Specify other restrictions for this course, if any.
Will other restrictions change?       X Yes   ___ No

Existing (as appears in current catalog) _____
Proposed (if changing) _____

16. Course objectives for this course: (Please refer to instructional objectives documents at:
   http://www.uco.edu/academic-affairs/faculty-staff/gaccc.asp#FAQ/Helpful%20Hints)
If previously approved objectives will be used without any changes, check here
   X
As they appear in the course syllabus.

Existing: __________________________
Proposed: __________________________

17. Please provide a concise, yet comprehensive, statement that explains the specific reasons for requesting the change(s). Include any documentation or assessment information available supporting this specific request.
We propose to require ENGR 3303 Engineering Probability & Stat as an alternative prerequisite course to STAT 2103 or 2113 or 4113. This change will allow students in the proposed BS in Computer Engineering program to take CMSC 3613 Data Structures and Algorithms without the need to take an additional statistics course.
We also propose to require "Instructor Permission" for students to enroll into this course. The Computer Science Department is changing its approach to the mandatory faculty advisement process for its students. Instead of advising every student every semester, which is becoming unsustainable in terms of faculty workload, the department has identified several key courses in the curriculum to provide students advisement before they enroll. CMSC 3613 is one of the key courses identified. Students will need to receive faculty advisement before obtaining the instructor permission to enroll into the course.

18. Clearly explain how the characteristics of this course meet or exceed those outlined in Course Level Characteristics. Complete this question only if requesting a course level change. (Copy and paste table from "Course Level Characteristics" document for the appropriate course level of proposed course. Document may be found on: http://www.uco.edu/academic-affairs/files/aacc/forms/CLC_table4_07.pdf.
N/A