

WINONA STATE UNIVERSITY NOTIFICATIONS

Department Computer Science

Date 12/4/2013

If the proposed curricular change involves existing courses and is considered a Notification, complete and submit this form. Refer to Regulation 3-4, *Policy for Changing the Curriculum*, for complete information on submitting proposals for curricular changes.

Please check type of change(s):

- ☐ Reduction in course number ☐ Change in grading option ☐ Change in hours or credits in an independent study course
☒ Change in course title ☒ Change in course description* ☐ Change in existing major, minor, option, concentration, etc.*
☐ Change in prerequisites ☒ Change in course number within level, e.g. 310 to 350 ☐ Change in delivery method

A. Current Course Information

CS 150 Exploring Mathematics with Computers 3
 Course No. Course Title Credits

This proposal is for a(n) ☒ Undergraduate Course ☐ Graduate Course

Applies to ☐ Major ☒ Minor
 ☐ Required ☒ Required
 ☐ Elective ☐ Elective

Prerequisites MATH 050 Intermediate Algebra

Grading ☒ Grade only ☐ P/NC only ☐ Grade and P/NC Option

Frequency of offering Every Semester

Proposed Course Information. (Please indicate only proposed changes below.)

CS 101 Exploring Creative Computing
 Course No. Course Title Credits

Prerequisites _____

Grading ☐ Grade only ☐ P/NC only ☐ Grade and P/NC Option

Frequency of offering _____

Effective date (normally the next semester) Spring 2014

B. *If the proposal requests a change in the course description, please attach a description of the change requested and list both the current and proposed course description. If the proposal requests a change in an existing major, minor, option, concentration, etc., please attach a description of the change(s) requested and list both the current and proposed program listings.

Approved by the Department N. Debnath 12/4/13
 Department Chair Date

Ndebnath@winona.edu
 e-mail address

Notification to the College Dean ☒ Yes ☐ No

 Dean of College Date
1/15/14
 Date Chair of A2C2

Presented at Graduate Council meeting on (if applicable)
 Date Chair of Graduate Council

Submitted to Registrar on 1/16/14 Registrar: Please notify department chair via e-mail that
 Date Notification has been recorded.

*If a dean has comments on a notification, the dean shall forward the comments to the department. [Revised 7-13-11]

Current Description

Course is designed for non-majors who desire a survey of the field of computing/computer science. It includes studies of the mathematical/logical formulations of algorithms for problem solving. After a brief history of the development of computers, students are introduced to such fundamental issues as problem-solving, algorithm design, representation and analysis, logic design, computer organization, machine and assembly language, software design and analysis, various number representations and conversions, and mathematical models of computation. Meets GOAL 4. Prerequisites: Qualifying score on the mathematics placement exam or MATH 050 - Intermediate Algebra.

New Description

This course is aimed at students with little or no programming experience. Students will learn how to think methodically and how to solve problems effectively with computers through activity-based learning. Students will learn some of the "Big Ideas" of computing and experiment with activities such as visual programming, creating mobile apps and controlling robotics. Meets GOAL 4. Prerequisites: Qualifying score on the mathematics placement exam or MATH 050.