Change Course CS 1200
Specific Course Change type selected: Other (explain**)

1. Existing course prefix and number:
   CS 1200

2. Other (** explain)
   Change from a 3 credit hour class to 2 credit hours of class time and 1 credit hour of lab time.

3. If this change applies to multiple courses, please list them below.
   Not Applicable

   A. Please choose Yes or No to indicate if this class is a Teacher Education class:
      No

   B. Please choose the applicable class level:
      Undergraduate

   C. Please respond Yes if this is a current general education course and/or a course being submitted for the new WMU Essential Studies program. Please respond No if it is neither.
      No

   D. Explain briefly and clearly the proposed improvement.
      Change the course from 3 credit hours of class time to 2 credit hours of class time and 1 credit hour of lab time. The class will have two 50-minute lectures each week, and one 1 hr 40 min lab each week. The 2 components will be linked in the registration system (such that students must take both components in the same semester, and receive a single grade for the overall course).

   E. Rationale. Give your reason(s) for the proposed improvement. (If your proposal includes prerequisites, justify those, too.).
      There will be significantly higher enrollment in the course in the future since other CEAS majors (besides EE) will start requiring this course; in particular, the proposed Biomedical Engineering major includes this requirement in all 4 of their tracks.
      We also feel that students would greatly benefit from doing hands-on programming activities under the guidance of a lab instructor, rather than being expected to do all of their programming work as homework, on their own.
F. List the student 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.
No change to learning outcomes.

G. Describe how this curriculum change is a response to student learning assessment outcomes that are part of a departmental or college assessment plan or informal assessment activities. This course will be required by multiple departments within the CEAS to meet departmental accreditation requirements.

H. 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. This service course will aid various departments within the CEAS in meeting accreditation requirements.

There will be no effect on other colleges.

I. Effect on your department's programs. Show how the proposed change fits with other departmental offerings.
This change will allow CS students taking the course to engage in lab activities tailored to CS needs, just as it will allow similar benefits to students from other departments.

J. 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.
There will be no effect on enrolled students.

K. 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?
This past year there were 52 taking the course in Spring 2018 and 65 taking the course in Fall 2018. We anticipate enrollment to significantly increase when the Biomedical Engineering major begins because all four tracks require this course.

L. 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.)
We would need to be able to hire TA or part-time staff to service lab section needs. Given the current enrollments in the course, CS1200 would require offering 5 labs for Fall and Spring
(together). With the addition of Biomedical Engineering, additional labs would need to be offered. This would require further TA support to cover the labs.

M. With the change from General Education to WMU Essential Studies, this question is no longer used.

For courses requesting approval as a WMU Essential Studies course, a syllabus identifying the student learning outcomes and an action plan for assessing the student learning outcomes must be attached in the Banner Workflow system.
Not Applicable

N. (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.
We are only changing the format of the course, not the content nor transferability of community colleges' equivalent courses. This proposed change has no effect.

O. Current catalog copy:
This course focuses on the fundamentals of programming and the basics of the C language. Topics include compiling, variables, math, input/output, conditional statements, loops, arrays, functions, random numbers, pointers, arrays, strings, structures, reading/writing files, and the C preprocessor.

P. Proposed catalog copy:
No change.