REQUEST TO COLLEGE CURRICULUM COMMITTEE FOR CURRICULAR IMPROVEMENTS

DEPARTMENT: Computer Science  PROPOSED EFFECTIVE SEMESTER: Fall, 2019  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 Changes
☐ New course  ☐ Pre or Co-requisites  ☐ Deletion (required by others)  ☐ Course #, different level  ☐ Credit hours  ☐ Enrollment restriction  ☐ Course-level restriction  ☐ Prefix  ☐ Title and description (attach current & proposed)  ☐ General education (select one)  ☐ Other (explain**)

Misc. Course Changes
☐ Title  ☐ Description (attach current & proposed)  ☐ Deletion (not required by others)  ☐ Course #, same level  ☐ Variable credit  ☐ Credit/no credit  ☐ Cross-listing  ☐ COGE reapproval  ☐ Other (explain**)

** Other:

Title of degree, curriculum, major, minor, concentration, or certificate: Bachelor of Science: Computer Science

Existing course prefix and #: PHIL 3160 Proposed course prefix and #:  Credit hours: 3

Existing course title: Ethics in Engineering and Tech

Proposed course title:

Existing course prerequisite & co-requisite(s): None

Proposed course prerequisite(s):
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?
The default grades are D for undergraduates and C for graduates.

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):
ob. 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: 3/1/18

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/USC REVIEW:

☐ Approve ☐ Disapprove: Chair, GSC/USC: Date

☐ Approve ☐ Disapprove: Provost: Date

Revised May 2007. All previous forms are obsolete and should not be used.
1. Explain briefly and clearly the proposed improvement.

To require Computer Science undergraduate students to take PHIL 3160, Ethics in Engineering and Tech., as a Bachelor of Science: Computer Science graduation requirement.

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

ABET requires the following student outcomes for accredited Computer Programs:

(e) An understanding of professional, ethical, legal, security and social issues and responsibilities
(g) An ability to analyze the local and global impact of computing on individuals, organizations, and society

The Department of Computer Science is currently including these concepts as modules or discussion topics in our current courses, but it would be beneficial to students to take a class that focuses on these topics exclusively. Such an approach will also allow for an improved ability to assess these outcomes for accreditation.

3. 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.

Computer Science undergraduate students will have to take PHIL 3160, offered by the Department of Philosophy, at some point. The Department of Philosophy has approved of this, and letters of support from the faculty member responsible for the class and the Chair of the Department of Philosophy are attached.

4. Effect on your department's programs. Show how the proposed change fits with other departmental offerings.

Requiring PHIL 3160 will allow more flexibility in the delivery of current courses. Modules and discussions on Ethics would still be able to be included in current offerings but would no longer be the only option for assessment.

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.

PHIL 3160 is offered online each Fall semester, so students will have multiple opportunities to fit the class into their schedules. It also fulfills part of the university's General Requirements, specifically in Area II: Humanities. Students will have no difficulty in scheduling the class, and it will not require extra travel between campuses. Since it also fulfills a general graduation requirement, this change will cause no difficulty for our students.

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?

N/A

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.)

This change will require no additional resources.

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.)

This course already fulfills Area II: Humanities
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.

We have consulted with the Office of Assessment and Undergraduate Studies about this proposal. There will be no changes required to any transfer articulation agreements with Michigan community colleges.
Letters of Support
Jason,

Jimmy Martin tells me that your department is interested in adding PHIL 3160 to your degree requirements -- undergraduate major, I'm assuming. We should have the resources to be able to field that, and we'd welcome your students, so I'm writing in support of the idea.

If you need something more formal from me, just say the word.

Best,

Tim

AKA

Dr. Timothy McGrew
Chairman
Department of Philosophy
Western Michigan University
After meeting with Jason today, I think that PHIL 3160 (Ethics in Engineering and Technology) can be made to fit the ethics needs of the computer science department fairly straightforwardly. I'll be the one running this course for at least the near-future, and I'm happy to work with Jason and you all to ensure that the course covers cases and issues specifically relevant to computing in local and global settings in addition to the more general engineering-based topics already found in the course. Please just let me know how I can be of assistance as this process moves forward.

Best,

James
I support making Phil 3160 a requirement in the BS in CS program.

Steve

Dr. Steven M. Carr  
Professor and Chair  
Department of Computer Science  
Western Michigan University  
1903 W. Michigan Ave.  
Kalamazoo MI 49008-5466  
269-276-3101

Hi, Steve,

Got an email from Tim McGrew over in Philosophy supporting our addition of PHIL 3160 to our requirements. I think with Dave's response yesterday we're good to go. Do I need a statement from you in there, just as far as making things complete for the committee? If so, could you just shoot me a quick email supporting the idea that I can include in the packet?

Thanks!

Jason Eric Johnson  
Lecturer  
Department of Computer Science  
College of Engineering and Applied Science  
Western Michigan University  
(269) 276-3103  
jason.e.johnson@wmich.edu

Global Information Assurance Certification:  
GPEN, GWEB, GCUX, GSEC, GIAC Advisory Board