University of Wisconsin-Whitewater
Curriculum Proposal Form #3

New Course

Effective Term: 2147 (Fall 2014)

Subject Area - Course Number: **COMPSCI 485** **Cross-listing:**
(See Note #1 below)

Course Title: (Limited to 65 characters) Project

25-Character Abbreviation: Project

Sponsor(s): Robert Horton, Athula Gunawardena

Department(s): Mathematical and Computer Sciences

College(s): Letters and Sciences

Consultation took place: ☒ NA ☐ Yes (list departments and attach consultation sheet)
Departments:

Programs Affected: **Computer Science**

Is paperwork complete for those programs? (Use "Form 2" for Catalog & Academic Report updates)

☒ NA ☐ Yes ☐ will be at future meeting

Prerequisites: COMPSCI 223 and Consent of Department

Grade Basis: ☒ Conventional Letter ☐ S/NC or Pass/Fail

Course will be offered: ☐ Part of Load ☒ Above Load
☐ On Campus ☐ Off Campus - Location

College: Letters and Sciences **Dept/Area(s):** COMPSCI

Instructor: Staff
Note: If the course is dual-listed, instructor must be a member of Grad Faculty.

Check if the Course is to Meet Any of the Following:

☐ Technological Literacy Requirement ☐ Writing Requirement
☐ Diversity ☐ General Education Option: Select one:
Note: For the Gen Ed option, the proposal should address how this course relates to specific core courses, meets the goals of General Education in providing breadth, and incorporates scholarship in the appropriate field relating to women and gender.

Credit/Contact Hours: (per semester)

Total lab hours: 30-90 Total lecture hours: 0
Number of credits: 1-3 Total contact hours: 30-90

Can course be taken more than once for credit? (Repeatability)

☐ No ☒ Yes If "Yes", answer the following questions:

No of times in major: 1 No of credits in major: 3
No of times in degree: 2 No of credits in degree: 6

Proposal Information: (***Procedures for form #3***)

Course justification: As part of the academic-industry partnerships, it is anticipated that a number of industry projects featuring student teams managed by faculty and industry practitioners will be staffed each semester. This, in fact, has already begun with several student development projects managed by COMPSCI faculty members and several industry practioners at the Innovation Center, located in the Whitewater University Technology Park which is a partnership of the University of Wisconsin-Whitewater, the City of Whitewater and the Whitewater Community Development Authority. These previous student developers received university credit for their efforts in an ad-hoc manner as independent study credits.

This proposed course would provide a flexible, standardized mechanism for awarding credit to future student project team members. These credits could be used to satisfy the COMPSCI elective requirement.

Relationship to program assessment objectives:
The following COMPSCI program objectives are at least partially addressed by this course:
To provide students with:

- Technical, analytic, problem solving skills required for an entry-level position.
- Hands on experience with appropriate technology.
- High level of adaptability to new technology and a commitment to continual learning.
- Group and individual communication skills
- Professional and personal development skills.

Budgetary impact:
No impact to university budgets.
Interested faculty will serve as project managers above load. As compensation, these faculty can either choose a salary or a released time buy out funded by the sponsored project. Salaries for student project team members will also be funded as part of the project as will the expense of any hardware/software or other equipment or services required.

Course description: (50 word limit) This course provides students with the opportunity to participate on a student project team under the management of a faculty member and industry practitioners. The project will be sponsored by a partnering business firm and may involve a wide array of technologies, functional areas and geographically dispersed teammates. This course will only be offered when projects are available. Students will be carefully chosen through an interview process. The number of credits will be determined by the complexity of the project and the level of student involvement.

If dual listed, list graduate level requirements for the following:

1. **Content** (e.g., What are additional presentation/project requirements?)

2. **Intensity** (e.g., How are the processes and standards of evaluation different for graduates and undergraduates?)

3. **Self-Directed** (e.g., How are research expectations differ for graduates and undergraduates?)

Course objectives and tentative course syllabus: Upon completion of this course, students will:

- Apply their personal communication and professional functional area skills in a group project setting
- Acquire an indepth knowledge of the particular set of functional skill areas that are involved in the project.
- Develop project management reporting skills
- Understand how project requirements are established, communicated and evaluated within an organization
- Understand the importance of deadlines, multitasking, risk management, teamwork and quality
- Appreciate working with professional colleagues from other disciplines with diverse vocabularies, viewpoints and talents to achieve a desired goal
- Understand the role of a Project User Group

Students will be evaluated based on:

- The quality and timeliness of achieving project milestones
- A formal presentation of the completed project to the faculty manager and appropriate industry representatives
- A formal review of the completed project against its stated objectives by the faculty manager and appropriate industry representatives.

Bibliography: (Key or essential references only. Normally the bibliography should be no more than one or two pages in length.)

Specific to the project. Abundant reference materials will be used, but will vary widely from project to project.

The University of Wisconsin-Whitewater is dedicated to a safe, supportive and non-discriminatory learning environment. It is the responsibility of all undergraduate and graduate students to familiarize themselves with University policies regarding Special Accommodations, Academic Misconduct, Religious Beliefs Accommodation, Discrimination and Absence for University Sponsored Events (for details please refer to the Schedule of Classes; the "Rights and Responsibilities" section of the Undergraduate Catalog; the Academic Requirements and Policies and the Facilities and Services sections of the Graduate Catalog; and the "Student Academic Disciplinary Procedures (UWS Chapter 14); and the "Student Nonacademic Disciplinary Procedures" (UWS Chapter 17).

Course Objectives and tentative course syllabus with mandatory information (paste syllabus below):