CPSC 492: Software Engineering and Group Design II  
SYLLABUS, Spring 2016

Time and Place: Tu/Th 10:50am–12:05pm, PACCAR 105 and PACCAR 106

Instructor: Shawn Bowers  
Email: bowers@gonzaga.edu, Office: Herak 309C, Phone: (509) 313-5712

Office Hours: 1–2:30 Tuesday, Wednesday, Thursday or by appointment.

Course Description: This is the capstone course for computer science majors. Students learn and apply the principles of software engineering in the design of a large project. Students work in small teams over two semesters to complete their project.

ABET Course Outcomes: The following are the ABET course outcomes for CPSC 492:

1. Effectively work on a large software project within a team
2. Manage software project risks
3. Apply software project management
4. Apply different types and phases of software testing
5. Develop and present technical material in both written and oral forms
6. Identify potential professional, ethical, and social issues and responsibilities concerning software development projects
7. Analyze the social impacts of software and hardware

Course Webpage: http://www.cs.gonzaga.edu/~bowers/courses/cpsc492

Course Materials: Lecture notes, assignments, due dates, and general class information will be posted to the course webpage. Be sure to check the course webpage often for updates.

Grading: Grades will be based roughly on the following scale. Note that a significant portion of your grade will be based on your participation in your project, which will be determined through peer, design advisory board, and instructor evaluations.

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Area</th>
<th>Assessments</th>
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<tbody>
<tr>
<td>25%</td>
<td>Technical Contributions</td>
<td>Code reviews, peer evals, individual report</td>
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<tr>
<td>25%</td>
<td>Teamwork</td>
<td>Weekly task sheets, peer evals, end-of-semester review</td>
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<tr>
<td>20%</td>
<td>CEDE Deliverables</td>
<td>status report, 2 presentations, final report</td>
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<tr>
<td>30%</td>
<td>Classwork</td>
<td>Homework, in-class exercises, class participation</td>
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Letter grades will be assigned based on the standard percentage scales (A: 93-100%, A-: 90-92%, B+: 87-89%, B: 83-86%, B-: 80-82%, C+: 77-79%, C: 73-76%, C-: 70-72%, D+: 67-69%, D: 60-66%, F: 0-59%). Many of the evaluations for senior design will be based on a 5-point scale, where 5=Exceptional, 4=Meets Expectations, 3=Minor Weaknesses, 2=Major Weaknesses, and 1=Unsatisfactory. In this scale, a 5 is considered A-level work, a 4 is B-level work, a 3 is C-level work, a 2 is D-level work, and a 1 is F-level work.

Course Policies:

Reading Assignments. Reading assignments are required (unless otherwise noted).

Homework Assignments. All assignments must be turned in during the scheduled class period of the given due date. Late class assignments WILL NOT BE ACCEPTED unless prior arrangements are made with the instructor. Some assignments in this class will be done in groups. It is expected that you contribute to these assignments. For individual assignments, it is expected that you turn in your own work.
Project Work. There will be both project presentations and reports that must be completed as part of the SEAS senior design program (CEDE) that are required of all students in the school. Grades for these deliverables will be determined by your instructor as well as input from Design Advisory Board (DAB) members and other evaluators. If your project deliverable is late, you will receive NO CREDIT for the deliverable.

Attendance. It is important that you attend class. The Gonzaga University Catalog states that more than 4 absences (for courses meeting twice a week) constitute a grade of V. If an extraordinary situation (medical, personal, work-related, or other emergency) prevents you from working for an extended period of time, contact me as soon as possible to discuss your situation and to arrange a special schedule (if appropriate). A portion of class time will be set aside for project work with your teammates, making attendance an integral part of the class. As such, for every two class periods you miss (each full week of absence) you will receive a 10% reduction in your grade.

Class and Project Participation. A portion of your grade will be based on your participation within your project and the class in general. While attendance is an important part of participation, you will also be evaluated by your instructor and your peers on your engagement in the course and your project. Participation will be evaluated by your instructor, DAB members, and self and peer evaluation. Please note that a low participation score may also affect your individual grade on other project work (such as CEDE deliverables). It is EXTREMELY IMPORTANT that you do YOUR FAIR SHARE of the work within your project team. In addition to your general ability to work effectively within a team setting, you will also be evaluated on the quality and extent of your technical contributions to the team.

Academic Honesty: You are expected to follow the university policy on academic honesty. Examples of academic dishonesty include: turning in the work of another student and representing it as your own work, knowingly permitting another student to turn in your work, copying from another student, and deliberately transforming borrowed work to disguise its origin. When in doubt about the policy, please ask for clarification. If it has been determined that a violation has occurred, then the following actions will be taken. If it is a first offense, a 0 will be assigned to all students involved (i.e., “copier” and “copy-ee”). A subsequent violation will result in a grade of F in the course.

Use of Electronic Devices in Class: Do not inappropriately use electronic devices during class times. These devices should not be used during class to browse the web, text or instant message, check email, etc. Be sure to put your phone in “silent” mode during class.

Office Hours: You are strongly encouraged to take advantage of office hours and/or stop by or make an appointment to meet with me if you have questions about the course material. I am more than happy to help you, and office hours are a great way to ask questions and get one-on-one help with the material. This also holds true for your team—please take advantage of office hours with both individual and group questions.

Accommodation Support: Students in need of academic accommodations should contact me as soon as possible to arrange support. Students are encouraged to contact the Disabilities Resources Education and Access Management (DREAM) office in the Foley library to develop accommodation strategies. I am happy to implement any plan that you work out with this office.