Course Description: A two semester senior design project lab in which students work in teams to develop a large software product. Teams meet weekly with their faculty project advisors.

CEDE and Faculty Advisors: The Senior Design Program is coordinated through the Center for Engineering Design and Entrepreneurship (CEDE). The Director of CEDE is Toni Boggan (boggan@gonzaga.edu) and the Computer Science Coordinator for CEDE is Shawn Bowers (bowers@gonzaga.edu). Each team will be assigned a faculty advisor, who serves as your instructor for CPSC 491L and 492L. Your faculty advisor is your primary contact for senior design, however, you may receive emails and additional information concerning CEDE events from the CEDE director and the CS Coordinator.

Time and Place: Faculty advisor weekly meetings must be arranged with your team and advisor. The senior design lab in PACCAR 106 is available for doing project work and team meetings. Team meetings can also be held in the Computer Science Lab in HERAK 220 or in one of the conference rooms in PACCAR or HERAK (see the SEAS Dean's office for details and scheduling).

ABET Course Outcomes: The following are the ABET course outcomes for CPSC 491L:
1. Effectively work on a large software project within a team
2. Communicate technical material in both written and oral forms

Course Webpages: For CPSC 491L and 492L see http://www.cs.gonzaga.edu/bowers/courses/cpsc491.

Course Materials: Templates, forms, and other relevant documents for the class will be posted to the CPSC 491 course webpage. Be sure to check the course webpage for updates.

Grading: Students will be graded on individual performance as well as the performance of their team. Grades will be based roughly on the following scale. Please see your faculty advisor for changes in the scale below.

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Area</th>
<th>Assessments</th>
</tr>
</thead>
<tbody>
<tr>
<td>50%</td>
<td>Technical Contributions</td>
<td>Peer evals, advisor assessment, code reviews</td>
</tr>
<tr>
<td>15%</td>
<td>Teamwork</td>
<td>Peer evals, advisor assessment</td>
</tr>
<tr>
<td>15%</td>
<td>Non-Technical Contributions</td>
<td>Peer evals, advisor assessment</td>
</tr>
<tr>
<td>10%</td>
<td>Participation</td>
<td>Peer evals, attendance at team meetings</td>
</tr>
<tr>
<td>10%</td>
<td>CEDE Deliverables</td>
<td>DAB and advisor assessments</td>
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</tbody>
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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%).

Course Policies:

Teamwork. A significant portion of your grade in senior design is based on your contributions to your team. Your contributions come in many forms including doing your fair share (or more) of the technical and non-technical tasks, communicating with your team about your progress, participation in team meetings, helping your teammates succeed, keeping teammates accountable for their work, and providing leadership and direction within the team. As such, much of your grade will be based on your ability to work as an effective team member, which is based largely on how your teammates and your faculty advisor perceive your overall contributions to your team. Your contributions will also be documented through your task lists and the technical work you produce.

Attendance. Attendance in senior design will be through a variety of team meetings, including planning and working meetings, meetings with your faculty advisor, meetings with your sponsor and end users, and formal meetings/presentations organized by CEDE. Your attendance is expected at these meetings and is critical for project success. Students that miss a significant number of team meetings with their faculty advisor may receive a grade of V as per the Gonzaga University Catalog.

Project Work. There will be both project presentations and reports that must be completed as part of the Senior Design Program, which are required of all students in the course. Grades for these deliverables will be
determined by your faculty advisor as well as input from Design Advisory Board (DAB) members and other evaluators. If your project deliverable is late, your grade will either be automatically reduced or no credit will be given at the discretion of your faculty advisor. Students are also required to attend and present at all CEDE project meetings (three status report presentations, a design display presentation, and the final presentation). Failure to attend these meetings and participate in presentations may result in a failing grade for the course. 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.

**ABET Assessments.** The senior design program plays an important part of our accreditation and assessment processes, and as such, you will be asked to do some individual assignments for assessment purposes. These assignments are required, will be graded, and will make up a portion of your overall grade for the course.

**University Statement Regarding Course Expectations:** As a Jesuit university that seeks to provide an equal opportunity to learn for all students, this course is offered with the expectation that students are here voluntarily, and understand that the university expects all interactions relating to its courses to occur in the context of a professional academic work environment that is welcoming and accessible to all students regardless of gender, race, ethnicity, religion, disability, sexual orientation or identity and any other non-merit factor in educational programs or activities. This environment includes virtual course environments, such as Blackboard, and any course-related communications via e-mail and social media. We strive to create a healthy environment conducive to intellectual honesty and free inquiry; as such, behaviors which constitute harassment, discrimination, or hostile and/or inappropriate conduct will not be tolerated, and faculty, staff and administrators will take action to ensure such matters are addressed promptly and appropriately. For inquiries or concerns about non-discrimination or the complaint process at Gonzaga, contact the Office of Equity and Inclusion, Business Services Center, 102 E. Boone Avenue.

**University Note on Harassment, Discrimination and Sexual Misconduct:** Consistent with its mission, Gonzaga seeks to assure all community members learn and work in a welcoming and inclusive environment. Title VII, Title IX and Gonzagas policy prohibit gender-based harassment, discrimination and sexual misconduct. Gonzaga encourages anyone experiencing gender-based harassment, discrimination or sexual misconduct to talk to someone from the Campus and Local Resources list found in the Gonzagas Harassment and Non-Discrimination Policy. It may be helpful to talk about what happened in order to get the support needed and for Gonzaga to respond appropriately. There are options for support and resolution, namely confidential support resources, and campus reporting and support options available. Gonzaga will respond to all reports of sexual misconduct in order to stop the harassment or misconduct, prevent its re-occurrence and address its effects. Responses may vary from support service referrals to formal investigations. As a faculty member, I want to get you connected to the resources here on campus that can help you in this situation and therefore will report all incidents of sexual misconduct and thus cannot guarantee confidentiality. I will provide our Title IX coordinator with relevant details such as the names of those involved in the incident, and Title IX will reach out to you to explore options for support, safety measures and reporting. For inquiries or concerns about gender-based harassment, discrimination or sexual misconduct or the complaint process at Gonzaga, contact the Title IX Coordinator, Business Services Center, 102 E. Boone Avenue.

**University Notice to Students with Disabilities/Medical Conditions:** The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability/medical condition requiring an accommodation, please call or visit the Disability Access Office.