



**Course Description:** This course offers ECE PMP graduate students the opportunity to earn academic credit for volunteering/serving as technical mentors to Seattle-area middle and high school students participating in FIRST Washington Robotics in an underserved community. Students will apply their engineering knowledge to support youth in designing, building, and programming competitive robots, while developing skills in communication, leadership, and community engagement.

**LEARNING OBJECTIVES:**

- Apply ECE concepts in real-world mentoring scenarios.
- Communicate technical ideas effectively to non-expert audiences.
- Support inclusive and equitable STEM learning environments.
- Gain valuable leadership, communication and mentorship skills.
- Reflect on the societal impact of engineering outreach.

**CURRICULUM:**

- Course is offered both Autumn and Winter quarters.
- Students do NOT have to enroll in both quarters. However, if students are on a team in Autumn quarter who advances to the regional and/or world competition, they are encouraged to enroll in the Winter quarter.
- The course is a mixture of asynchronous videos/assignments and in-person and/or Zoom meetings with their assigned school robotics team.
- Students can choose to volunteer 5 hours/week (1 credit) or 6-10 hours per week (2 credits)

- It is up to the assigned team director and the student what specific volunteer schedule works best (ie. – 1 hour per day Monday-Friday or 2-3 hours twice per week)
- Student volunteers should expect their volunteer's hours to be in-person or remote via Zoom with a local middle school or high school

**Modules:**

- Week One: FIRST Washington and Youth Safety
  - Familiarize yourself with the FIRST Washington Robotics organization
  - Understand essential safety requirements of working with youth
  - Learn how to be an effective technical mentor
- Week Two:
  - Students are given the school assignment
- Week Two – Nine:
  - Students volunteer with assigned FIRST robotics team
  - 5 hours/week = 1 credit; 6-10 hours/week = 2 credits
- Week Ten:
  - Students have assigned team director approve work hours sheet and submit it via Canvas
  - Students complete a 1-2 page reflection paper on their experience (how being a volunteer impacted their professional development) and the relationship between universities and communities.

**SUCCESSFUL COURSE COMPLETION**

- Students achieve credit for this course by completing the following:
  - Required videos listed above by the end of Week 1
  - Signing UW Code of Conduct
  - Completion of Work Hours Verification Form signed by team director
  - Completion of Reflection Paper

**RELIGIOUS ACCOMODATION:**

Washington state law requires that UW develop a policy for accommodation of student absences or significant hardship due to reasons of faith or conscience, or for organized religious activities. The UW's policy, including more information about how to request an accommodation, is available at [Religious Accommodations Policy](https://registrar.washington.edu/staffandfaculty/religious-accommodations-policy/) (<https://registrar.washington.edu/staffandfaculty/religious-accommodations-policy/>)[Links to an external site.](#) Accommodations must be requested within the first two weeks of this course using the [Religious Accommodations Request form](https://registrar.washington.edu/students/religious-accommodations-request/) (<https://registrar.washington.edu/students/religious-accommodations-request/>)[Links to an external site.](#)

### **ACCOMODATIONS AND ACCESS:**

If you have already established accommodations with Disability Resources for Students (DRS), please communicate your approved accommodations to me at your earliest convenience so we can discuss your needs in this course. If you have not yet established services through DRS, but have a temporary health condition or permanent disability that requires accommodations (conditions include but not limited to; mental health, attention-related, learning, vision, hearing, physical or health impacts), you are welcome to contact DRS at 206-543-8924 or [uwdrs@uw.edu](mailto:uwdrs@uw.edu) or [disability.uw.edu](http://disability.uw.edu). [Links to an external site.](#) DRS offers resources and coordinates reasonable accommodations for students with disabilities and/or temporary health conditions. Reasonable accommodations are established through an interactive process between the student, instructor, and DRS. It is the policy and practice of the University of Washington to create inclusive and accessible learning environments consistent with federal and state law.

### **ACADEMIC INTEGRITY:**

Engineering is a profession demanding a high level of personal honesty, integrity and responsibility. Therefore, it is essential that engineering students, in fulfillment of their academic requirements and in preparation to enter the engineering profession, adhere to the College of Engineering [Statement of Principles](#)[Links to an external site.](#) Any student in this course suspected of academic misconduct (e.g., cheating, plagiarism, or falsification) will be reported to the College of Engineering Dean's Office and the University's Office of Community Standards and Student Conduct to initiate the [student conduct process](#)[Links to an external site.](#) *Any student found responsible for academic misconduct may receive a zero for their grade on the impacted academic work (e.g., assignments, project, or exams), and academic consequences, with the possibility of expulsion.*

For any assignment, quiz, or exam that is suspected of academic misconduct, you will be given an “X” grade until after Rebecca Carlson has received notification by the Dean’s office that the conduct process is complete. If a student is found responsible for academic misconduct, the student will receive a grade of zero on the assignment, quiz, or exam. If a student is found not responsible, the student will receive a grade based on the standard grading criteria for that assignment, quiz, or exam.

### **Title IX:**

The UW, through [numerous policiesLinks to an external site.](#), prohibits sex- and gender-based violence, harassment, and discrimination and expects students, faculty, and staff to act professionally and respectfully in all work, learning, and research environments.

For support, resources, and reporting options related to sex- and gender-based violence, harassment, or discrimination, refer to the [UW Title IX’s websiteLinks to an external site.](#), specifically the [Know Your Rights & ResourcesLinks to an external site.](#) guide. Should you wish to make the Office of the Office of the Title IX Coordinator aware of a Title IX concern, visit the [Make a Title IX ReportLinks to an external site.](#) webpage.

Please know that if you choose to disclose information to me about sex- or gender-based violence, harassment, or discrimination, I will connect you (or the person who experienced the conduct) with resources and individuals who can best provide support and options. You can also access additional resources directly:

- You can request anonymous support, from [SafeCampus Links to an external site.](#)
- You can request confidential support, from a [confidential advocateLinks to an external site.](#)
- If you know you want to submit a formal complaint, contact the [Civil Rights Investigation OfficeLinks to an external site.](#)

Please note that some senior leaders and other specified employees have been identified as [Officials Required to Report.Links to an external site.](#) If an Official Required to Report learns of possible sex- or gender-based violence, harassment, or discrimination they are required to contact the Office of the Title IX Coordinator and report all the details they have in order to ensure that the person who experienced harm is offered support and reporting options.

### Relevant Websites

- Title IX: [uw.edu/titleix/Links to an external site.](http://uw.edu/titleix/)

- Survivor resources: [uw.edu/titleix/survivor-resources/](https://uw.edu/titleix/survivor-resources/)Links to an external site.
- Confidential advocates: [uw.edu/sexualassault/support/advocacy/](https://uw.edu/sexualassault/support/advocacy/)Links to an external site.
- SafeCampus: [uw.edu/safecampus/](https://uw.edu/safecampus/)Links to an external site.
- Officials Required to Report: [uw.edu/titleix/employee-reporting-expectations/](https://uw.edu/titleix/employee-reporting-expectations/)Links to an external site.
- Policies: [uw.edu/titleix/policies/](https://uw.edu/titleix/policies/)Links to an external site.