

## **PhysME – BS in Physics & MS in Mechanical Engineering An Interdisciplinary, 5–year Program**

### **Description**

PhysME is a streamlined program that provides an opportunity to undergraduate physics students to continue their studies in Mechanical Engineering. At the end of the fourth year, students would be able to receive a BS in Physics Plus and automatically (after fulfilling the Graduate School requirements) enroll in the Mechanical Engineering MS program. This approach will enable them to receive their MS graduate degree in ME within a minimum of one year. This integrated program becomes possible by taking advantage of similar courses in the curricula of the two departments and by utilizing a number of carefully selected engineering courses as electives within the Physics BS Plus degree.

### **Rational**

In both physics and mechanical engineering we study forces and motion, the behavior of fluids, solids and structures, and the transport of energy, just to name a few areas of common interest. We both belong to the core disciplines and as a result our interests and contributions extend to both technology and science. This program is a natural response to the ever-increasing demands for the interdisciplinary education of our students.

### **Benefits**

- Students in the program will be able to enroll in graduate classes after their junior year at UW. By taking up to 3 graduate ME courses during their undergraduate program, the total number of required hours for both degrees is limited to 150.
- Teaching or research assistantships will be available as early as the beginning of the fourth year. They will be granted on a competitive basis and will cover full tuition and provide a stipend.
- PhysME graduates will combine an excellent background in the fundamentals with a valuable set of engineering skills. This preparation will give them an edge in today's rapidly changing and demanding workplace.

### **Details**

- Students following the Physics Plus program are eligible to apply for enrollment in PhysME at the end of their sophomore year, if they have a GPA of 3.0 and above.
- After acceptance in the program, students are co-advised by a Mechanical Engineering faculty member and are required to maintain a "B" average.

### **Contact Information**

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