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COLLEGE OF ENGINEERING

PROFESSIONAL SCIENCE MASTERS (PSM) IN ENGINEERING & BUSINESS

The Professional Science Masters (PSM) in Engineering and Business is intended for students who have a B.S. in engineering or engineering technology who want to advance into management positions. The degree combines advanced engineering and business courses with applied field experience. The applied field experience integrates the new skills learned by the student with their needs and the needs of their employer.

The online courses use Adobe Connect Pro, which is a net based program that allows the courses to be received on any computer with a high speed internet connection.

Educational Objectives

- Increased technical knowledge in the student's area of engineering practice.
- Meet the education requirements to become a Project Management Professional as certified by the Project Management Institute.
- Enhanced personnel and financial management skills.
- Technical and management skills that are integrated with the needs of their employers.
- Increased potential for career advancement.

Two tracks are currently offered

- Aerospace Engineering
- Surveying Engineering

WHAT CAN I DO WITH A PSM IN ENGINEERING AND BUSINESS?

US News and World Report says that "strong employment rates and high levels of satisfaction" are a couple of reasons why Professional Science Masters programs have risen. Engineering managers combine their management expertise with their engineering knowledge to lead their teams in highly technical tasks. Our graduates are prepared for a wide spectrum of positions ranging from the highly technical to management.

Program Requirements (30 credits)

The PSM consists of 15 credits of engineering courses, nine credits of business courses, and six credits of applied field experience.

Required courses

- GEE 486: Advanced Project Management (3 credits)
- GEE 694: Professional Science Masters in Engineering and Business Internship (6 credits)

Students must complete an additional 12 credits of approved advanced engineering courses and 9 credits of approved business or economics courses. With permission, other courses may be substituted for those listed for a track. Prior graduate courses that have been taken by students will be considered on a case-by-case basis.

Aerospace Engineering Concentration

- MEE 445: Aeronautics
- MEE 446: Astronautics
- MEE 547: Flight Dynamics and Control of Aircraft
- MEE 548: Spacecraft Orbit and Attitude Dynamics and Control

Surveying Engineering Concentration

- SVT 501: Advanced Adjustment Computations
- SVT 511: Geodetic U.S. Public Land Survey Computations
- SVT 531: Advanced Digital Photogrammetry
- SVT 532: Survey Strategies in Use of Lidar
- SVT 541: Geodesy

Other courses may be substituted with permission. The nine credits of business/economics courses (courses number 400 or above) can be approved by your advisor. Courses that count toward the nine credits without need for advisor approval include the following online courses.

- BUA 400: Introduction to Accounting
- BUA 601: Data Analysis for Business
- BUA 605: Creating & Capturing Value in the Digital Economy
- BUA 609: Financial Statement Analysis
- BUA 626: Management of Contemporary Organizations
- BUA 649: Management Policy
- BUA 651: Financial Management
- BUA 668: Electronic Commerce
- ECO 410: Accelerated Introductory Economics

Contact an advisor to get started today: umaine.edu/online

ADVISING CENTER

NOT SURE WHERE TO BEGIN?

Contact our advising center to get started. Our enrollment advisors can help you decide which academic program is right for you, review transfer credits, walk you through the admission process, discuss financial aid options, describe what it's like to learn online, and more. We are here for you!

Set up an appointment today.
207.581.5858
umaineonline@maine.edu
Belfast and Orono locations
umaine.edu/online



Tuition*

Maine Residents:
\$418/credit hour

Non-Residents:
\$523/credit hour

Fees*

- **Unified Fee**
less than 6 credit hours: \$125
6–11 credit hours: \$381
12–15 credit hours: \$934
16 or more credit hours: \$958
- **Online Fee**
\$25/credit hour
- **Engineering Course Fee**
\$100/course

*Rates apply to the 2017-18 academic year. Unique course and/or program fees may apply.

Apply Now

Ready to get started?
Visit us online for information on how to apply: umaine.edu/online



Some of the careers that await you:

- Engineering Project Manager
- Industrial Management Engineer
- Senior Lead Engineer
- Cost Systems Analyst
- Manufacturing Management

Our core management curriculum and technical tracks offer the engineering professional a tech-savvy alternative to the MBA. Our graduates are prepared to meet the global market with leadership, communication and negotiation skills that compliment their technical expertise. With a Professional Science Masters in Engineering and Business, you are in a class of innovating and pioneering engineering professionals.

STUDENT TESTIMONIAL



“As I continued to grow, both personally and professionally, I had long been contemplating graduate school. I had researched the programs at Universities in my area and just could not put the time and travel together to make things work. The University of Maine’s, Professional Science Master’s (PSM) degree allowed me to expand my resources and body of knowledge for relevant business, project management and advanced surveying and engineering topics. The Professors were excellent in conveying the expectations of the program, and course material utilizing different media and technology. I am very thankful for this opportunity and will always feel a part of the University of Maine family.”
– Ambrose Gmeiner

ACADEMIC CALENDAR

Fall Semester 2017

Classes begin August 28
Registration for Spring 2018
October 23–November 17
Final Exams end December 15

Winter Session 2017-2018

Classes begin December 27
Classes end January 16

Spring Semester 2018

Classes begin January 22
Registration for Fall 2018 (tentative)
March 26–April 20
Final exams end May 11
Commencement Saturday, May 12

Summer University 2018

Registration begins February 5
Classes begin May 14
Classes end August 17

FACULTY PROFILE



Professor Jude Pearse came to the University of Maine in 2001 with extensive teaching experience at a variety of levels (high school, college, and adult students) in both academic and business environments.

Her main teaching responsibilities are in digital systems and microprocessor applications. She has over ten years of industrial experience from firms such as Bath Iron Works to her own private corporation, Robash Unlimited. She is also a registered professional engineer in the State of Maine.