Did you know?

- Penn State credits and degrees earned through distance education are identical to those earned on campus.
- Penn State World Campus has enrolled students from all 50 states and all 7 continents.
- Our online courses involve frequent interactions between students and with instructors.
- Penn State, renowned as a leader in engineering education, awards one of the highest numbers of bachelor’s degrees in engineering in the United States.

PENNSTATE
World Campus

The Pennsylvania State University
301 Outreach Building
University Park PA 16802

800-252-3592
www.worldcampus.psu.edu
Master of Engineering Management
The global marketplace is becoming more competitive. As a result, companies are discovering that they need to integrate technical and business skills to solve problems and create new opportunities. These competitive pressures are reshaping the typical role of the engineering professional from one that has been mostly technical to one that encompasses a broader range of skills, including business and management. Individuals with the skills to bridge the gap between technology and business will have more opportunities to take on greater roles, advance in their careers, and assume leadership positions.

“We created the online engineering management master’s degree as a practical, pragmatic program designed to meet those changing needs. By leveraging expertise, we created an integrated, analytical degree program designed to specifically address the challenges that arise when engineering disciplines intersect with management and business functions.”

—Jim Nemes, D.Sc.
Lead Faculty Member
Master of Engineering Management
Welcome

You are making an important career decision by choosing Penn State’s online master of engineering management degree program.

Beginning in 1998 with just 41 students, the World Campus has grown into one of the nation’s leading providers of online education. Our mission is to deliver Penn State degrees, certificates, and courses in a convenient online format, so that you—the adult student—can balance work, family, and your educational pursuits.

Penn State World Campus is the real Penn State. In partnership with colleges across the Penn State system, the World Campus has served students from all 50 states, more than 40 countries, and from all 7 continents. These students are part of our global learning community, interacting with faculty and exchanging ideas and expertise with one another as they strive to meet their personal and professional goals.

We invite you to explore the engineering management website to learn how you can accomplish your educational goals.
Why Engineering Management?

Many engineers begin their careers with little thought to the ever-changing economic and technological landscape. Over time, they may find that they have become locked into largely technical roles, with little or no ability to influence the direction or management of their companies.

Engineering managers hold a unique position in the industry. Your responsibilities as an engineering manager could include supervising engineers (or a team of engineers), engineering technologists, and other related professionals. You could also be responsible for project management, taking on a greater role in establishing timelines, processes, and cost control. Managing technical aspects of manufacturing, operations, quality assurance, and testing or maintenance in industrial plants and factories could also fall under your area of responsibility.

Engineering managers who have the knowledge and skills that span both operations and technology have a distinct advantage over the competition because they bring a breadth of understanding not often found in industry.

Employment for engineering managers is expected to continue growing through 2018, according to the U.S. Bureau of Labor Statistics. Additionally, an estimated 48,000 engineering managers will be needed, due to growth and replacement needs.
**Why Penn State?**

**Proven Leadership in Online Delivery**
Through years of solid experience, Penn State has been a leader in the use of technology in education. The online master of engineering management (MEM) degree program, like our master of software engineering and systems engineering programs, was developed as a high-quality experience, using the very same courses offered in the on-campus programs. The course content comprises more than a textbook on a screen; it is reinforced and enhanced by interaction with your fellow students and the faculty.

**Distinguished Faculty**
The courses for the online MEM program are designed and taught by full-time Penn State professors whose teaching and research interests combine academic expertise and industry experience.

**Employer Recognized and Accepted**
Penn State, renowned as a leader in engineering education, awards one of the highest numbers of bachelor’s degrees in engineering in the United States. The online MEM degree program will carry the same Penn State commitment to high quality that employers recognize and accept. And when you graduate, your diploma will be the same as any other awarded by Penn State. There is no distinction on your official Penn State transcript or degree that your courses were completed at a distance. Penn State World campus is the real Penn State. The only difference is the way in which the courses are delivered to you.
Your Career Goals
Your Online Engineering Degree

The online engineering management courses were designed to be highly interactive and collaborative, so you can build strong ties with other students and gain perspective from other disciplines and industries. Like our online systems and software engineering programs, the MEM program uses a cohort approach to learning, allowing you to progress through the program with your fellow students. This approach provides greater integration of course content and fosters a richer student experience.

Curriculum
The 33-credit master’s degree program consists of 12 courses that you complete in 6 continuous semesters over 2 years. Most are 3-credit courses that last 7 weeks per course, with 2 courses taken per semester.

Maximum flexibility is maintained by the program in an effort to meet both the professional needs of individual students and academic quality standards.

Network with Classmates
Your classmates will have undergraduate degrees in engineering, mathematics, physics, or science and have demonstrated the skills required to manage complex engineering projects, products, and services in a typical engineering organization. Many of your fellow students will be professional engineers from various disciplines of the field. You can share experiences with your peers as you learn from each other and create a dynamic professional network of colleagues while moving through the course work.

<table>
<thead>
<tr>
<th>Year One</th>
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<th>Semester 3</th>
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<tbody>
<tr>
<td><strong>Semester 1</strong></td>
<td><strong>Semester 2</strong></td>
<td><strong>Semester 3</strong></td>
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<tr>
<td><strong>ENGMT 501</strong> Engineering Management Science (3 credits)</td>
<td><strong>BUS 500</strong> Negotiation, Communication, Teamwork (2 credits)</td>
<td><strong>ENGMT 510</strong> Economics and Financial Studies for Engineers (3 credits)</td>
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<tr>
<td><strong>STS 589</strong> Ethics and Values in Science and Technology (3 credits)</td>
<td><strong>MNGMT 511</strong> Organizational Behavior (2 credits)</td>
<td><strong>ENGMT 511</strong> Economics of Energy and Environment (3 credits)</td>
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<tr>
<td><strong>MNGMT 514</strong> Organizational Learning (2 credits)</td>
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*NOTE: These courses are 2 credits each and are offered over 3 consecutive 5-week terms.*

800-252-3592
Is; Your Schedule; Engineering Management Degree

The Benefits of Online Learning

Online learning gives you convenience, flexibility in your schedule, and the benefit of not having to set foot on campus. With our online delivery format you can complete your MEM degree in the comfort of your own home. You will receive course content and complete the activities using your computer and web access. The courses have fixed start and end dates, but you will decide when to do your course work to meet the assignment deadlines. Most courses last 7 weeks, with 2 courses taken per semester.

Apply What You Are Learning—Today

As you gain new skills and confidence through our program, you can begin to constructively influence your current work environment. The online MEM program delivers practical, problem-solving techniques that you can immediately use on the job.

<table>
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<th>Year Two</th>
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<tr>
<td><strong>Semester 1</strong></td>
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<tr>
<td>SYSEN 550 Creativity and Problem Solving I (3 credits)</td>
</tr>
<tr>
<td>SYSEN 552 Creativity and Problem Solving II (3 credits)</td>
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</table>

Frequently Asked Questions

▶ Why is Penn State the best choice for me?

*Flexibility and convenience:* Penn State knows that adults need flexible and convenient learning options to continue meeting their professional and personal commitments. As job responsibilities grow increasingly complex and family schedules become more hectic, online education enables you to study at times and locations that are convenient for you.

*Reputation:* Penn State is universally regarded as one of the finest educational institutions in the United States. Putting a Penn State degree or certificate on your résumé is a great way to prove to current and potential employers that you are a well-educated professional, and to broaden your career options.

*Accreditation:* Penn State is accredited by the Middle States Association of Colleges and Schools and has an outstanding reputation as a research and teaching university. Our courses are also accepted by most other colleges and universities in fulfillment of their requirements.

▶ Is this the real Penn State?

Absolutely. Penn State values online education as highly as it does resident instruction. No distinction will be made on your official Penn State transcript or degree that your courses were completed at a distance. The credits you receive are exactly the same as those awarded to on-campus students.

▶ How will I interact with my instructor and other students?

You will be part of a group of students in each course in this program, and we use a variety of means to bring students and instructors together, including asynchronous electronic threaded discussions on the course website, synchronous sessions, and e-mail.

▶ What types of student support are available?

As a distance education pioneer, Penn State has developed a nationally recognized support system for students who are geographically removed from campus. With our amazing team of academic advisers, technical support experts, customer service representatives, and Penn State instructors, we’ll help you get where you want to go—successfully—through distance education.
Getting Started

Admissions decisions for the master’s degree program in engineering management are based on a review of your complete application portfolio and the quality of your credentials relative to those of other applicants.

Begin Your Application Today

A student applying to the engineering management program should have three years of relevant work experience and must include the following in his/her application portfolio:

- application form (completed and submitted online)
- Test of English as a Foreign Language (TOEFL) score, if applicable
- statement of intent
- résumé
- recommendation letter
- two official transcripts from each undergraduate and graduate institution attended

Official GRE test scores will be considered if submitted, but are not required.

For More Information

Contact Us
pennstateonline@psu.edu • www.worldcampus.psu.edu
800-252-3592 (toll free within the United States)
814-865-5403 (local and international)
814-865-3290 Fax

Student Services Hours (inquiries and registration)
8:00 a.m.–9:30 p.m. Monday–Thursday
8:00 a.m.–5:00 p.m. Friday
Closed Saturday and Sunday

Admissions Counseling Hours
8:00 a.m.–8:00 p.m. Monday–Thursday
8:00 a.m.–5:00 p.m. Friday
Closed Saturday and Sunday

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This publication is available in alternative media on request.
Penn State is committed to affirmative action, equal opportunity, and the diversity of its workforce.
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