

ENGINEERING MANAGEMENT (GREAT VALLEY)

Graduate Program Head	Colin J. Neill
Program Code	ENGMT
Campus(es)	Great Valley (M.E.M.) World Campus (M.E.M.)
Degrees Conferred	Master of Engineering Management (M.E.M.)
The Graduate Faculty	View (https://secure.gradsch.psu.edu/gpms/?searchType=fac&prog=ENGMT)

The Master of Engineering Management (M.E.M.) program at Penn State Great Valley is designed to address the needs of these individuals in coordinating and developing large interdisciplinary engineering projects in addition to the leadership of technical staff. The program offers experience in the analytical approaches to solving technical and socio-technical problems, leading technical people and fostering effective teams, and managing technical projects in the presence of uncertainty and risk.

The Master of Engineering Management is a 33-credit program that melds the skills to manage complex, heterogeneous engineering projects, products, and services with the theoretical understanding to become leaders in 21st century organizations.

This is a technically focused, analytical degree designed specifically to address the challenges found at the intersection of management and engineering. This program is STEM designated.

Admission Requirements

Applicants apply for admission to the program via the Graduate School application for admission (<http://gradschool.psu.edu/prospective-students/how-to-apply/>). Requirements listed here are in addition to Graduate Council policies listed under GCAC-300 Admissions Policies (<http://gradschool.psu.edu/graduate-education-policies/>).

The Master of Engineering Management is developed for students with a background in engineering or science. Applicants with a four year undergraduate degree in engineering, mathematics, physics, computer science, or a related discipline will be considered. Test scores from the GMAT or GRE exams are not required, but will be considered by the admissions committee if submitted. Jr/Sr GPA of 3.0 or better on a 4.0 scale is required. Students must have three years or more work experience in an engineering or engineering-related position. Applicants must submit a letter of reference, and a one page personal statement of relevant experience and goals.

The language of instruction at Penn State is English. English proficiency test scores (TOEFL/IELTS) may be required for international applicants. See GCAC-305 Admission Requirements for International Students (<http://gradschool.psu.edu/graduate-education-policies/gcac/gcac-305/gcac-305-admission-requirements-international-students/>) for more information.

Degree Requirements

Master of Engineering Management

Requirements listed here are in addition to Graduate Council policies listed under GCAC-700 Professional Degree Policies (<http://gradschool.psu.edu/graduate-education-policies/>).

All students in the Master of Engineering Management program must complete a minimum of 33 credits.

Code	Title	Credits
Required Courses		
ENGMT 501	Engineering Management Science	3
ENGMT 510	Economics and Financial Studies for Engineers	3
SYSEN 505	Technical Project Management	3
SYSEN 536	Decision and Risk Analysis in Engineering	3
SYSEN 550		
SYSEN 552	Creativity and Problem Solving II	3
Electives		12
Culminating Experience		
ENGMT 539	Engineering Management Strategy	3
Total Credits		30

Student Aid

Refer to the Tuition & Funding (<http://gradschool.psu.edu/graduate-funding/>) section of The Graduate School's website. Students in this program are not eligible for graduate assistantships.

Financial aid for students in on-campus programs is in the form of student loans and a limited number of small scholarships, as described on the Penn State Great Valley website (<https://greatvalley.psu.edu/tuition-and-financial-aid/>).

World Campus students in graduate degree programs may be eligible for financial aid. Refer to the Tuition and Financial Aid section (<http://www.worldcampus.psu.edu/tuition-and-financial-aid/>) of the World Campus website for more information.

Courses

Graduate courses carry numbers from 500 to 699 and 800 to 899. Advanced undergraduate courses numbered between 400 and 499 may be used to meet some graduate degree requirements when taken by graduate students. Courses below the 400 level may not. A graduate student may register for or audit these courses in order to make up deficiencies or to fill in gaps in previous education but not to meet requirements for an advanced degree.

Engineering Management (ENGMT) Course List (<https://bulletins.psu.edu/university-course-descriptions/graduate/engmt/>)

Learning Outcomes

1. **KNOW.** Demonstrate knowledge of foundational principles of engineering management including technical, social, and economic factors as applied to projects and personnel.
2. **CRITICAL THINKING.** Evaluate the financial aspects of projects and integrate them with different technical and engineering components.
3. **PROBLEM SOLVING.** Understand and estimate risk and its impact on the decision making process.

4. COMMUNICATE. Demonstrate the ability to communicate project findings effectively in written, spoken, and visual presentations to project stakeholders and a variety of professional audiences.
5. TEAMWORK. Demonstrate the ability to work with multi-disciplinary teams.

Contact

Campus	Great Valley
Graduate Program Head	Colin Neill
Director of Graduate Studies (DGS) or Professor-in-Charge (PIC)	Nil Hande Ergin
Program Contact	Katie E Kerstetter Penn State Great Valley 30 East Swedesford Road Malvern PA 19355 kew5687@psu.edu (610) 648-3277
Program Website	View (http://greatvalley.psu.edu/academics/masters-degrees/engineering-management/)
Campus	World Campus
Graduate Program Head	Colin Neill
Director of Graduate Studies (DGS) or Professor-in-Charge (PIC)	Nil Hande Ergin
Program Contact	Katie E Kerstetter Penn State Great Valley 30 East Swedesford Road Malvern PA 19355 kew5687@psu.edu (610) 648-3277
Program Website	View (http://www.worldcampus.psu.edu/degrees-and-certificates/engineering-management-masters/overview/)