

**Master of Engineering Management (MEM in ENGMT)
Required and Elective Courses**

The Master of Engineering Management degree will be awarded upon successful completion of the 33-credit program, and completion of [SARI](#).^{*} The courses are not listed in sequential order. All module course work is subject to change as new courses are developed or renumbered.

The capstone course, ENGMT 539, will only be available during fall semesters.

If you have any questions throughout your studies, please email EngHelp@psu.edu.

18-Credit Required Curriculum			
Course #	Course Titles	Semester	Grade
ENGMT 501	Engineering Management Science		
ENGMT 510	Economics and Financial Studies for Engineers		
SYSEN 805	Technical Project Management (<i>Formerly SYSEN 505</i>)		
SYSEN 536	Decision & Risk Analysis in Engineering		
SYSEN 850	Creativity & Problem Solving I		
ENGMT 841	Applications of Statistics in Quality and Continuous Improvements in Engineering		
12-Credit Elective Curriculum			
Course #	Course Titles	Semester	Grade
3-Credit Required Capstone (to be taken after completing 27 credits in program) <i>The Capstone Course is only offered in Fall Semesters</i>			
ENGMT 539	Engineering Management Strategy GCAPSTONE-Prof. Masters Capstone Project		
SARI Requirement Scholarship and Research Integrity			
SARI	Scholarship and Research Integrity Program		

***NOTE:** Students must maintain a minimum grade point average of 3.0 (B) throughout the program. A 3.0 cumulative GPA is required to graduate. All course work toward the Master of Engineering Management degree must be completed within eight years of admission to the program.

Questions & Advising - Students should contact their assigned faculty advisors with any questions or for advice on course selection. Students considering taking online classes must get approval from their academic advisor before requesting enrollment through EngHelp@psu.edu.

Course Descriptions/Prerequisites - Do not check course descriptions from the registration web page. Please check this advising sheet or the course descriptions at this [link](#).

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12-Credit Electives (*Choose 4 courses from the following*)

BA 800	Marketing Management
BA 810	Operations Management (<i>Prerequisite: ENGMT 501 and ENGMT 510</i>)
BADM 828	Negotiations
DAAN 871	Data Visualization for Analytics
DAAN 881	Data-Driven Decision Making (<i>Prerequisite: STAT 500 or ENGMT 841</i>)
DAAN 897	Enterprise Analytics Strategies
ENGMT 520	Systems Optimization (<i>Formerly SYSEN 530</i>)
IE 575	Foundations of Predictive Analytics (<i>Prerequisite: STAT 500 or ENGMT 841</i>)
MNGMT 511	Organizational Behavior (<i>Offered online only</i>)
STAT 500	Applied Statistics
STS 589	Ethics and Values in Science and Technology
SYSEN 532	Simulation in Systems Engineering: Discrete-Time Systems
SYSEN 555	Invention and Creative Design (<i>SYSEN 850 is recommended prior to SYSEN 555, but not required</i>)

Graduate Certificate Program

Students in the ENGMT Program can earn three related graduate certificates while working towards their degree. It's a great way to gain new skills and add valuable credentials to your résumé. Students who successfully complete graduate certificates will also be awarded a Digital Badge for each. Please note that **you must apply** to add the certificate program(s) listed below to your student record, but you will not be charged an application fee after the first graduate certificate application.

Quality Management Across Product Life Cycle (MEMQM)

ENGMT 841	Applications of Statistics in Quality and Continuous Improvements in Engineering
ENGMT 520	Systems Optimization (<i>Formerly SYSEN 530</i>)
STAT 500	Applied Statistics

Quantitative Decision Making for Engineering Managers (MEMQDM)

ENGMT 501	Engineering Management Science
ENGMT 510	Economics and Financial Studies for Engineers
SYSEN 536	Decision & Risk Analysis in Engineering

Technical Management & Leadership Essentials (MEMTML)

MNGMT 511	Organizational Behavior (<i>Offered online only</i>)
STS 589	Ethics and Values in Science and Technology
SYSEN 805	Technical Project Management (<i>Formerly SYSEN 505</i>)
SYSEN 850	Creativity & Problem Solving I