

B.S. in Engineering Management

Engineering Management

Successful engineering managers - in manufacturing, the military, or other industries - use powerful analytic metrics and methods to solve complex problems. The engineering management program at St. Mary's University provides an opportunity for future engineers and scientists to enhance their knowledge in the area of scientific management.

Graduates apply their skills in engineering management to solve problems; assess an engineering management study; and lead decision-making processes.

Unique facilities available to engineering management students include an electrical engineering laboratory accessible 24-hours a day; an energy conversion laboratory for motors, generators and transformers; a manufacturing and robotics laboratory; and a research laboratory equipped with both UNIX and Windows workstations.

Code	Title	Semester Hours
BS Engineering Management Degree Plan (128 hours)		
Core Requirements (41 hours)		
First Year Seminar		3
FYE 1301	First Year Seminar	
Freshmen Composition I		3
EN 1311	Rhetoric and Composition	
or EN 1313	Rhetoric and Composition for International Students	
Literature		3
Any EN 23XX literature course		
History		3
Any 1000, 2000, or 3000-level HS course		
Social Science		6
EG 1303	Engineering and Society	
EG 2393	Engineering Economy	
Mathematics		4
MT 2412		
Natural or Physical Sciences		4
PY 1404		
Fine Arts		3
EG 1341	Graphics and Design	
Philosophy - Self		3
PL 1301	Intro to Philosophy	
Philosophy - Ethics		3
PL 2301	Foundations of Ethics	
Theology - God		3
TH 1301	Introduction to Theology	
Intermediate Theology		3
Any TH 33xx course		
Engineering Management Major Courses (80 hours)		
AC 2301	Financial Accounting	3
BA 3351	The Legal Environment of Business	3
BA 4334	Business Ethics & Corporate Social Responsibility	3
EG 1194	Python Programming for EG Lab	1
EG 1294	Python Programming for Eng	2
EG 2343	Statics	3
EG 2354	Systems Eng. and Management	3
EG 3101	Eng. Design & Analysis Workshop I	1

EG 3102	Eng. Design & Analysis Workshop II	1
EG 3191	Data Visualization and Analytics Laboratory	1
EG 3192	Simulation Laboratory	1
EG 3353	Engineering Project Management	3
EG 3391	Data Analytics and Information Engineering	3
EG 3394	Lean Production Systems	3
EG 3395	Industrial Statistics and Design of Experiments	3
EG 3396	Simulation	3
EG 3398	Six Sigma Quality	3
EG 4101	Eng. Design & Analysis Workshop III	1
EG 4152	Engineering Leadership Workshop	1
EG 4196	Supply Chain and Logistics Engineering Laboratory	1
EG 4252	Engineering Leadership	2
EG 4301	Senior Design Project I	3
EG 4302	Senior Design Project II	3
EG 4353	Innovation and Entrepreneurship	3
EG 4395	Stochastic Modeling and Risk Analysis	3
EG 4396	Supply Chain and Logistics Engineering	3
MK 3310	Principles of Marketing	3
MN 3330	Organizational Behavior	3
MT 2318	Applied Linear Algebra	3
MT 2413	Calculus II	4
MT 4331	Probability Theory	3
PY 2404	University Physics II	4

Engineering Management Electives (7 hours) **7**

SET MT or SCI Selected Elective I & II: Choose a minimum of 7 credit hours from the following:

BL 1401 General Biology I for Majors
BL 1402 General Biology II for Majors
CH 1401 General Chemistry I
ES 1303 Geology of Earth Resources
MT 2323 Discrete Math
MT 2317 Differential Equations
MT 2414 Calculus III
MT 3375 Theory of Interest
PY 3301 Modern Physics

Total Semester Hours **128**

This is a recommended degree plan subject to changes. Please meet with your advisor on a regular basis.

First Year

Fall	Semester Hours	Spring	Semester Hours
EG 1303		3 MT 2413	4
EG 1341		3 PY 2404	4
EN 1311		3 EG 1194	1
MT 2412		4 EG 1294	2
PY 1404		4 FYE 1301	3
		History	3
	17		17

Second Year

Fall	Semester Hours	Spring	Semester Hours
AC 2310		3 MK 3310	3

TH 1301	3 MT 4331	3
SET MT or SCI Selected Elective I	3 PL 2301	3
EG 2343	3 MT 2318	3
PL 1301	3 EG 2354	3
EG 2393	3 Theology II	3
	18	18

Third Year

Fall	Semester Hours	Spring	Semester Hours
EG 3101		1 EG 3102	1
SET MT or SCI Selected Elective II		4 MN 3330	3
EG 3395		3 EG 3192	1
EG 3191		1 EG 3396	3
EG 3391		3 EG 3394	3
EG 3353		3 EG 3398	3
Literature		3	
	18		14

Fourth Year

Fall	Semester Hours	Spring	Semester Hours
BA 4334		3 BA 3351	3
EG 4101		1 EG 4302	3
EG 4152		1 EG 4196	1
EG 4252		2 EG 4396	3
EG 4301		3 EG 4353	3
EG 4395		3	
	13		13

Total Semester Hours 128