

Engineering Management Major, Bachelor of Arts (63-65 Hours) effective 2021-22 catalog

Engineering Management Students will be complete an in-depth Business curriculum as well as completing fundamental courses in Engineering, Mathematics, and Science. This will prepare them to bridge the gap between business and engineering. Engineering managers oversee projects and operations in engineering and manufacturing companies. These Engineering managers handle business-oriented tasks such as budgeting, costs, financing, quality control, technical sales, project management, marketing, and manufacturing.

Major Requirements :

Major Core (45-46 credit hours):

- MATH 1300, Finite Math, 3 Credit Hours **OR** MATH 2010, Calculus I, 4 Credit Hours **OR** MATH 1400, Applied Calculus, 4 Credit Hours
- MATH 2120, Introductory Statistics with Applications, 4 Credit Hours
- PHYS 2240, Physics 1 (Calculus Based), 4 Credit Hours **OR** PHYS 2140, Physics 1 (Algebra Based), 4 Credit Hours
- ENGR 2001, Introduction to Engineering, 1 Credit Hour
- ENGR 2002, Introduction to Mechanical Laboratory, 1 Credit Hour
- ENGR 2003, Introduction to Electrical and Computer Laboratory, 1 Credit Hour
- ENGR 2060, Engineering Ethics, 2 Credit Hours
- ENGR 2090, Systems Engineering, 3 Credit Hours
- ENGR 2310, Computational Problem Solving, 3 Credit Hours
- PSYC 2100, Interpersonal Relationships, 4 Credit Hours
- BSNS 2710, Principles of Management, 4 Credit Hours
- BSNS 2810, Principles of Marketing, 4 Credit Hours
- ACCT 2010, Principles of Accounting, 3 Credit Hours
- CPSC 1100, Introduction to Business Informatics, 3 Credit Hours
- BSNS 4500, Strategic Management, 3 Credit Hours
- BSNS 4910, Business Capstone, 1 Credit Hour
- ECON 2010, Principles of Macroeconomics, 3 Credit Hours
OR ECON 2020, Principles of Microeconomics, 3 Credit Hours

Management Specialization (18 Hours):

- BSNS 3240, Operations Management, 3 Credit Hours
- BSNS 3270, Project Management, 3 Credit Hours
- BSNS 3510, Supply Chain Movement, 3 Credit Hours
- BSNS 4010, Organizational Behavior and Theory, 3 Credit Hours
- BSNS 4050, Quality Systems Control, 3 Credit Hours
- BSNS 4480, Leadership, 3 Credit Hours

OR

Sales and Marketing Specializations (19 Hours):

- BSNS 3210, Buyer/Seller Relations, 3 Credit Hours
- BSNS 3220, Consumer Behavior, 3 Credit Hours
- BSNS 3510, Supply Chain Movement, 3 Credit Hours
- BSNS 3550, Integrated Branding and Promotion, 3 Credit Hours
- BSNS 4110, Marketing Research, 3 Credit Hours
- BSNS 4430, Marketing Management, 3 Credit Hours
- BSNS 4440, Senior Marketing Seminar, 1 Credit Hour

Proposed Course Sequence:

Freshman: ENGR 2001, ENGR 2002, ENGR 2003, MATH 1300 **OR** MATH 2010, CPSC 1100, BSNS 2710

Questions? Please contact the *Falls School of Business* and the *Department of Physical Sciences and Engineering*

Sophomore: PHYS 2140 **OR** PHYS 2240, ACCT 2010, ENGR 2060, ENGR 2310, ENGR 2090, MATH 2120

Junior: ECON 2010, ECON 2020, BSNS 3240, BSNS 2810, BSNS 3510, PSYC 2100

Senior: BSNS 4480, BSNS 4910, BSNS 4500, BSNS 3270, BSNS 4430, BSNS 4910

Management Specialization

SEMESTER 1		SEMESTER 2	
ENGR 2001, 2002, 2003	3 Hours	CPSC 1100	3 Hours
MATH 1300 or MATH 2010	3-4 Hours	ENGL 1120	3 Hours
ENGL 1100/ENGL 1100	3-4 Hours	COMM 1000	3 Hours
LART 1050	1 Hour	BSNS 2710	3 Hours
Aesthetic Ways	3 Hours	Personal Wellness	2-3 Hours

13-15 + 14-15

SEMESTER 3		SEMESTER 4	
PHYS 2410 ¹	4 Hours	ENGR 2310	3 Hours
ACCT 2010	3 Hours	MATH 2120 ²	4 Hours
ENGR 2060 ³	2 Hours	ENGR 2090 ⁴	3 Hours
Elective	3 Hours	Elective	3 Hours
Elective	3 Hours	Elective	3 Hours

15 + 16

SEMESTER 5		SEMESTER 6	
ECON 2010	3 Hours	ECON 2020	3 Hours
BSNS 3240	3 Hours	BSNS 3510	3 Hours
BSNS 2810	3 Hours	PSYC 2100	4 Hours
BIBL 2000	3 Hours	Elective	3 Hours
Civil Ways	3 Hours	Foreign Language	4 Hours

15 + 17

SEMESTER 7		SEMESTER 8	
BSNS 4480	3 Hours	BSNS 4010	3 Hours
BSNS 4910	1 Hour	BSNS 4050	1 Hour
BSNS 4500	3 Hours	Christian Ways	3 Hours
BSNS 3270	3 Hours	Elective	3 Hours
Elective	3 Hours	Elective	3 Hours

13 + 13

¹ PHYS 2410 fulfills the Scientific Ways of Knowing Liberal Arts Requirement

² MATH 2120 fulfills the Quantitative Reasoning Liberal Arts Requirement

³ ENGR 2060 fulfills the Critical Reasoning Liberal Arts Requirement

⁴ ENGR 2090 fulfills the Global Ways of Knowing Liberal Arts requirement

Questions? Please contact the *Falls School of Business* and the *Department of Physical Sciences and Engineering*

Proposed Course Sequence:

Freshman: ENGR 2001, ENGR 2002, ENGR 2003, MATH 1300 **OR** MATH 2010, CPSC 1100, BSNS 2710

Sophomore: PHYS 2140 **OR** PHYS 2240, ACCT 2010, ENGR 2060, ENGR 2310, ENGR 2090, MATH 2120

Junior: ECON 2010, ECON 2020, BSNS 2810, BSNS 3210, BSNS 3220, BSNS 3510, PSYC 2100

Senior: BSNS 3550, BSNS 4410, BSNS 4440, BSNS 4500, BSNS 4430, BSNS 4910

Sales and Marketing Specialization

SEMESTER 1		SEMESTER 2	
ENGR 2001, 2002, 2003	3 Hours	CPSC 1100	3 Hours
MATH 2010	4 Hours	ENGL 1120	3 Hours
ENGL 1100/ENGL 1100	3-4 Hours	COMM 1000	3 Hours
LART 1050	1 Hour	BSNS 2710	3 Hours
Aesthetic Ways	3 Hours	Personal Wellness	2-3 Hours

14-15 + 14-15

SEMESTER 3		SEMESTER 4	
PHYS 2410 ⁵	4 Hours	ENGR 2310	3 Hours
ACCT 2010	3 Hours	MATH 2120 ⁶	4 Hours
ENGR 2060 ⁷	2 Hours	ENGR 2090 ⁸	3 Hours
Elective	3 Hours	Elective	3 Hours
Civic Way of Knowing	3 Hours	Elective	3 Hours

15 + 16

SEMESTER 5		SEMESTER 6	
ECON 2010	3 Hours	ECON 2020	3 Hours
BSNS 3210	3 Hours	BSNS 3510	3 Hours
BSNS 3220	3 Hours	PSYC 2100	4 Hours
BSNS 2810	3 Hours	Elective	3 Hours
BIBL 2000	3 Hours	Foreign Language	4 Hours

15 + 17

SEMESTER 7		SEMESTER 8	
BSNS 3510	3 Hours	BSNS 4430	3 Hours
BSNS 3550	3 Hours	BSNS 4910	1 Hour
BSNS 4110	3 Hours	Christian Ways	3 Hours
BSNS 4440	1 Hour	Elective	3 Hours
BSNS 4500	3 Hours	Elective	3 Hours

13 + 13

⁵ PHYS 2410 fulfills the Scientific Ways of Knowing Liberal Arts Requirement

⁶ MATH 2120 fulfills the Quantitative Reasoning Liberal Arts Requirement

⁷ ENGR 2060 fulfills the Critical Reasoning Liberal Arts Requirement

⁸ ENGR 2090 fulfills the Global Ways of Knowing Liberal Arts requirement

Questions? Please contact the *Falls School of Business* and the *Department of Physical Sciences and Engineering*