

B.S. Engineering Management (BEM) Degree

This is not an official list of degree requirements. Adjustments may be required due to curriculum changes.

First Year

Fall

Course	Prerequisite	Credit
UN 1015 Composition		3
MA1161/1160-Calculusw/Technology (Essential Education: Math)	MA1032/1031 or ALEKS >+76	4-5
BUS2200-Business Law(Essential Ed, SHAPE elective)		3
ENG1101-Eng Analysis & Problem Solving (Essential Education: Michigan Tech Seminar)	MA1031/1032/1030 /1135/1160/1161	3
EC2001-Principles of Econ (Essential Ed- Fnd in the Human World)	MA1031/1032/1030 /1135/1160/1161	3
Total		16-17

Second Year

Fall

Course	Prerequisite	Credit
MA2720-Statistical Methods	MA1030/1032	4
PH2100 & 1100	MA1160/1161	4
ACC2000-Accounting Principles I (essential Ed. STEM)		3
MSE2100-Intro to Materials Science and Engineering	CH1150 & 1151	3
Essential Education- Communication Intensive		3
Total		17

Spring

Course	Prerequisite	Credit
BUS2300-Quantitative Problem Solving	BUS2100 or MA2720/3710	3

Third Year

Fall

Course	Prerequisite	Credit
FIN3000-Priniples of Finance	ACC2000 and MA1030 or MA1031/1032/1135/1161/1160	3
OSM3000-Operations Supply Chain Management	MA1135/1161/1160 and MA2720/2710/3710	3
BUS3000-Intro to Business	BUS2300	3
CEE3200- Thermodynamics/Fluid Mechanics	CH1150 and CH1151 and PH2100 and ENG1101 and MA2160	4
BUS1100 Intro to Business		3
Capstone If doing enterprise		1

Fourth Year

Fall

Course	Prerequisite	Credit
MIS2000-IT/IT management		3
EE3010-Circuits and Instrumentation for Cyber Physical Systems	MA1161/1160	3
OSM4650-Six Sigma Fundamentals	MA2710/2720/3710/3720	3

Spring

Course	Prerequisite	Credit
MA2160-Calculus w/ Technology II	MA1160/1161	4
ENG1102-Eng Modeling and Design	ENG1101	3
CH1150&1151-University Chemistry I & Lab	MA1161/1161	3/1
Essential Ed- Activities for Well Being and Success		1
BUS1100-Intro to Business		3
Total		15

Course	Prerequisite	Credit
MGT2000-Team Dynamics & decision Making	SO,JR,SR	3
ACC2100-Accounting Principles II	ACC2000	3
ENG2120-Statics Strength of Materials	MA2160 and PH2100 and ENG1101	4
BUS2300- Quantitative Problem Solving	BIS2100 OR ma 2720/1161/1160	3
Essential Ed-Activities for Well Being and Success		1
Total		14

Course	Prerequisite	Credit
Total		16-17

Spring

Course	Prerequisite	Credit
CEE3503-Environmental Engineering	MA2160 and CH1150 and CH1151	3
MKT3000-Principles of Marketing		3
MGT3000-Organizational Behavior	SO,JR,SR	3
OSM4300-Project Management	JR	3
Capstone if doing enterprise		1
Essential Education-Activities for Well Being and Success.		1
Total		13-14

Course	Prerequisite	Credit
Capstone Sr Enterprise, Business Cluster Class or BUS3900 (can be summer)		2-3
Essential Ed-Arts and Culture.		3
Total		14-15

Spring

Course	Prerequisite	Credit
EC3100-International Economics (Essential Education- Intercultural Competency	EC2001	3
MGT4600-Management of Technology and Innovation	JR,SR	3
MGT4000-Strategic Management	SR and MIS2000 and FIN3000 and OSM3000	3

Course	Prerequisite	Credit
	and MGT3000 and MKT3000 and BUS23000	
Capstone-SR Enterprise, Business Cluster or BUS3900 (can be summer)		3
Essential Ed experience		3
Total		15

Grand Total = 123 Credits