

# BS in Engineering Management (BEM)

## COB Audit Worksheet for Catalog 2023-2024\*

Student Name:

Graduation Semester Goal:

### Business Core Requirements: 42 credits

Course #	Course Title	Credits
ACC 2000	Accounting Principles I	3
ACC 2100	Accounting Principles II	3
BUS 2200	Business Law	3
BUS 2300	Quantitative Problem Solving	3
BUS 3000	Introduction to Business Analytics	3
EC 2001	Principles of Economics	3
EC 3100	International Economics	3
FIN 3000	Principles of Finance	3
MGT 2000	Team Dynamics and Decision Making	3
MGT 3000	Organizational Behavior	3
MGT 4000	Strategic Management	3
MIS 2000	IS/IT Management	3
MKT 3000	Principles of Marketing	3
OSM 3000	Operations & Supply Chain Management	3

### Math Requirements: Total 11-13 credits

MA 1160	Calculus with Technology I	4
or MA 1161	Calculus Plus w/ Technology I	5
MA 2160	Calculus with Technology II	4
MA 2720	Statistical Methods	4
or MA 3710	Engineering Statistics	3

### Lab Science Requirements: 8 credits

PH 1100	Physics by Inquiry I	1
PH 2100	University Physics I - Mechanics	3
CH 1150	University Chemistry I	3
CH 1151	University Chemistry Lab I	1

### Engineering Requirements: 23 credits

CEE 3503	Environmental Engineering	3
EE 3010	Circuits and Instrumentation	3
ENG 1101	Engineering Analysis & Problem Solving	3
ENG 1102	Engineering Modeling and Design	3
CEE 3200	Thermodynamics/Fluid Mechanics	4
ENG 2120	Statics-Strength of Materials	4
or MET 2110 & MET 2150	Applied Statics Strength of Materials	Applied 3 & 3
MSE 2100	Intro to Materials Science & Engineering	3

### Engineering Management Requirements: 9 credits

Course #	Course Title	Credits
MGT 4600	Management of Technology & Innovation	3
OSM 4300	Project Management	3
OSM 4650	Six Sigma Fundamentals	3

### Capstone Requirements: 6 Credits (choose 1 option below)

#### Option 1: Enterprise Work (must be completed with 4 semesters)

ENT 4900	Sr Enterprise Project Work V Non-Capstone	2
ENT 4910	Sr Enterprise Project Work VI Non-Capstone	2

#### And select 2 courses below:

ENT 1960	Enterprise Orientation - Spring	1
ENT 2950	Enterprise Project Work I	1
ENT 2960	Enterprise Project Work II	1
ENT 3950	Enterprise Project Work III	1
ENT 3960	Enterprise Project Work IV	1
ENT 4961	Enterprise Project Work VII	1

#### Option 2: Business Cluster (select 2 courses with same prefix)

ACC 3500	Managerial/Cost Accounting I	3
and ACC 4500	Managerial/Cost Accounting II	3
EC 3300	Industrial Organization	3
and EC 4200	Econometrics	3
FIN 4100	Advanced Financial Management	3
and FIN 4500	Risk Management	3
MGT 3800	Innovation and Entrepreneurship	3
and MGT 4650	Commercialization of Advanced Technologies	3
MIS 3100	Business Database Management	3
and MIS 3200	Systems Analysis and Design	3
MKT 4100	Sales and Sales Technology	3
and MKT 4200	Business to Business Mktg in the Digital Age	3
OSM 3150	Introduction to Supply Chain Management	3
and OSM 3600	Procurement & Supply Management	3
OSM 3150	Introduction to Supply Chain Management	3
and OSM 4700	Logistics & Transportation Management	3

#### Option 3: Business Internship/Advanced Project Mgt

BUS 3900	Business Internship	3
OSM 4350	Advanced Project Management	3

\* Not the official audit form. The Registrar's audit can be found at: <http://www.mtu.edu/registrar/students/major-degree/audit/business/>  
For official degree progress run an audit in MyMichiganTech under "Current Students" by accessing "Undergraduate Degree Audit"

**GENERAL EDUCATION Core and HASS (24 Credits)**

**General Education Core: 12 credits**

Course #	Course Title	Credits
UN 1015	Composition	3
UN 1025	Global Issues or upper level modern language	3
	Critical and Creative Thinking	3
	Social Responsibility & Ethical Reasoning	3

**HASS: 12 Credits**

- Students must complete 12 credits of HASS course work
- Six of the 12 credits must be upper level of 3000 or 4000
- At least three credits each in the following: Communication/Comp, Humanities and Fine Arts and Social & Behavioral Sciences.
- No more than three credits may come from the restricted list

	Communication/Composition	3
	Humanities and Fine Arts	3
	Social and Behavioral Sciences	3
	Course from any list above or Restricted list	3

**Co-curricular Activities: 3 credits/units**

Required for graduation, but not included in the GPA calculation or in the overall credits required for the degree. *Courses range from 1.0 - 0.5 credits*


**Free Electives: 1-5 credits**


**Completed Credit Count**

Business Core \_\_\_\_\_

Math \_\_\_\_\_

Lab Science \_\_\_\_\_

Engineering \_\_\_\_\_

Major Core/Capstone \_\_\_\_\_

Gen Ed \_\_\_\_\_

Free Electives \_\_\_\_\_

**Total Academic Credits  
Required: 128**

Co-curricular Activities \_\_\_\_\_