*NOTE: Total Academic Credits.: 128 Flowchart is a guide for course sequencing recommendations. ENGINEERING MANAGEMENT (BEM) + 3 Co-Curricular Units COB courses have some flexibility. Note if any pre-requisites or class level required before taking a course. Course Subject and Number *FLOWCHART Actual Degree requirements are determined by your catalog term Course Title Michigan Tech Meet with COB Academic Advisor annually for academic goal planning Level Restrict, Course Credits Semesters Offered College of Business 2023-24 Academic Catalog Year Your Official Audit can be found in MyMichiganTech (F=Fall, S=Spring,Su=Summer) with u.achieve Interactive Degree Audit. Year 2 Spring Year 3 Year 1 Year 4 Spring Fall Spring Spring Fall Fall MA2160 and PH1100 (pre-reg or co-reg) MA2160, MA2160, CH1150/1151. FIN3000, PH2100, PH2100 OSM3000 MA1135/1160/1161 & ENG1102 PH2100 ENG2120 **CEE3200** MA2160 & FNG1102 MGT3000, CEE3503 MGT4000 Statistics OSM4650 iversity Physics 1-Calculus 2 atics-Strength of MKT3000 igma Fundamenta (or first Math course) Mechanics Materials Mechanics 4 cr BUS2300 SR. 3 cr JR. 3 cr (3 cr) F, S, Su F, S F, S, St F. S. Su F. S BUS2300 BUS3000 FF3010 MGT4600 MA2720 MGT3000 PH1100 Quantitative Intro to Business Circuits & Management of (pre-rea or co-rea) ENG1101 ENG1102 Problem Solving Analytics Instrumentation Technology & Innovation SO, 3 cr 3 cr 3 cr JR, 3 cr ngineering Analysis a F, S, Su F. S & Design Problem Solving Calc I EC3100 FC2001 OSM3000 Statistics ACC2100 PH1100 (L) FC2001 ACC2000 and Statistics OSM4300 UN1015. Operations & Supply Project Management unting Principles II Capstone UN1025 3 cr Chain Management 1 cr Business Cluster/ 3 cr F, S, Su JR. 3 cr F, S, Su F, S, Su F, S F. S F, S, Su Enterprise/Internship8 Fa, S, Su Advanced Project Mgt Minimum (2 cr EN4900 or MSE2100 MGT2000 MA1030 credit or BUS2200 CH1150 MKT3000 FIN3000 3 cr COB courses-see Intro to Materials Math placement Canstone Rusiness Law University Chemistry 1 back for options) ience & Engineering into Pre-Calc 3 cr 3 cr Business Cluster/ SO, 3 cr F. S. Su nterprise/Internship8 F, S F, S, Su F, S, Su F, S Advanced Project Mgt CH1151 (L) (2 cr FN4910 or nterprise Capstor Enterprise Capston MIS2000 3 cr COB courses-see University Chemistry Option 1 3-4 Free Elective cr back for options) IS/IT Management Lab 1 (ENT1960/2950/2960/ (ENT1960/2950/2960/ 3 cr *if necessary 1 cr 3950/3960/4961) 3950/3960/4961) F, S, Su 1 cr) 1 cr = Business Requirements = General Education Requirements CORE (12 cr) SAMPLE Lab Science (8 cr) HASS SBS: HASS Comm/Comp: HASS HU/FA: HASS Anv & CORE (12 cr) Math (11-13) Social & Behavioral Sci Communication & Composition Humanities & Fine Arts **Restricted Lists** HASS (12 cr) (Social Sci. Fcon & Psychology 3 cr 3 cr 3 cr 3 cr Co-Curricular/PE (3 units) F. S. Su F. S. Su F. S. Su = Engineering Mgt Requirements SAMPLE Engineering Mgt (9 cr) SAMPLE Engineering Requirements (23 cr) Capstone (6 cr) 12 total credits of Humanities, Arts and Social Sciences (HASS) =Free Elective Credits 6 credits must be upper division (3000-4000 level courses) SAMPLE (Any Non-PE credits) UN1015 and UN1025 are prerequisites for all upper division HASS courses See List online at https://www.mtu.edu/registrar/faculty-staff/advisors/gen-ed/ ***UN1025 Gen Ed CORE: UN1015 Gen Ed CORE: *** ONE Global Issues Composition SEMESTER OF Critical & Creative Social Responsibility & Ethical Reasoning 3 cr 3 cr 3000 LEVEL Thinking F. S, Su F, S, Su OR HIGHER 3 cr 3 cr LANGUAGE F, S, Su F, S, Su COURSE CAN REPLACE Academic 16

16

Co-cur Unit

(0.5 UNIT)

F, S, Su

Co-cur Unit

(0.5 UNIT)

F, S, Su

Credits by **16-17**

semester

3 Total Units of

Co-Curricular/PE

15

Co-cur Unit

(0.5 UNIT)

F, S, Su

14-15

Co-cur Unit

(0.5 UNIT)

F, S, Su

15-16

Co-cur Unit

(0.5 UNIT)

F, S, Su

14-18

16-17

Co-cur Unit

(0.5 UNIT)

F, S, Su

Engineering Undergrads:

There are options to double major/dual degree with Engineering Management.
See COB Academic Advisor. Course substitutions will be made for some courses.

Additionally the COB offers Master's Degree options:

MEM, Master's in Engineering Management

(https://www.mtu.edu/business/graduate/engineering-management/)
TechMBA® Program

(https://www.mtu.edu/business/graduate/techmba/)

Capstone Requirements: 6 Credits (choose 1 option below)			
Option 1: Enterprise Work (must be completed with 4 semesters)			Typical Semester Offering
ENT 4900	Sr Enterprise Project Work V Non-Capstone	2	Fall/Spring
ENT 4910	Sr Enterprise Project Work VI Non-Capstone	2	Fall/Spring
And select 2 courses below:			
ENT 1960	Enterprise Orientation - Spring	1	Fall/Spring
ENT 2950	Enterprise Project Work I	1	Fall/Spring
ENT 2960	Enterprise Project Work II	1	Fall/Spring
ENT 3950	Enterprise Project Work III	1	Fall/Spring
ENT 3960	Enterprise Project Work IV	1	Fall/Spring
ENT 4961	Enterprise Project Work VII	1	Fall/Spring
Option 2: Business Cluster (select 2 courses with same prefix)			
ACC 3500	Managerial/Cost Accounting I	3	Spring
and ACC 4500	Managerial/Cost Accounting II	3	On Demand
EC 3300	Industrial Organization	3	Fall
and EC 4200	Econometrics	3	Fall
FIN 4100	Advanced Financial Management	3	Fall
and FIN 4500	Risk Management	3	Spring
MGT 3800	Innovation and Entreprenuership	3	Fall/Spring
and MGT 4650	Commercialization of Advanced Technologies	3	Spring
MIS 3100	Business Database Management	3	Fall
and MIS 3200	Systems Analysis and Design	3	Spring
MKT 4100	Sales and Sales Technology	3	Fall
and MKT 4200	Business to Business Mktg in the Digital Age	3	Spring
OSM 3150	Introduction to Supply Chain Management	3	Fall
and OSM 3600	Procurement & Supply Management	3	Fall
OSM 3150	Introduction to Supply Chain Management	3	Fall
and OSM 4700	Logistics & Transportation Management	3	Spring
Option 3: Business Internship/Advanced Project Mgt			
BUS 3900	Business Internship	3	Any Semester
OSM 4350	Advanced Project Management	3	Spring (must apply)