

B.S. Management w/Supply Chain and Operations Management Concentration (BMG1) Degree (Fall 2025 and later)

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

First Year – Fall

Course	Prerequisites	Credit
MA1161/1161-Calculus w/Technology (Essential Ed Math)	MA 1032 or MA 1031 or MA 1120 or ALEKS Math Placement >= 76 or CEEB Calculus AB >= 2 or CEEB Calculus BC >= 2 or CEEB Calculus AB Subscore >= 2 or ACT Mathematics >= 26 or SAT MATH SECTION SCORE-M16 >= 610	4-5
BUS2200-Business Law (Essential Ed SHAPE)		3
ACC2000-Accounting Principles I (Essential Ed STEM)		3
UN1013 or 2013-Essential Ed-Seminar		1
UN1015 Composition		3
Total		14-15

Second Year – Fall

Course	Prerequisites	Credit
BUS2300-Quantitative Problem Solving	BUS2100 or MA2720/2720/3710/3720	3
MGT3000-Organizational Behavior	So, Jr or Sr	3
FIN3000-Principles of Finance	ACC2000 and MA1030 or MA1031 or MA1032 or MA1135/1160/1161/1121	3
MGT2000-Team Dynamics & Decision Making	So, Jr, or Sr	3
Essential Education – Natural & Physical Science		3
Total		15

Third Year – Fall

Course	Prerequisites	Credit
OSM3000-Operations & Supply Chain Mgt	MA1135/1160/1161/1121 and MA2710/2720/3710/3720 or EET2010 or BUS2100 or CEE3710 and Jr or Sr	3
OSM4300-Project Management	Jr	3
OSM3150-Intro to Supply Chain Management	OSM3000 © and Jr or Sr	3
MGT4100-International Mgt	Jr or Sr	3
Capstone (If doing Enterprise)		1
Essential Education – Activities for Well-Being and Success		1
Total		13-14

Fourth Year – Fall

Course	Prerequisites	Credit
OSM3600-Procurement and Supply Management	Jr or Sr	3
MGT4700-Human Resource Mgt	MGT3000 and Jr or Sr	3
Capstone-Sr Enterprise, Business Cluster Class or BUS3900 (can be summer)		2-3
Free Electives		Variable based on Academic Planning
Essential Education – Arts & Culture		3
Total		11-?

First Year – Spring

Course	Prerequisites	Credit
MA2720 Statistical Methods	MA1030 or MA1032	4
EC2001-Principles of Economics (Essential Ed-Fnd in Human World)	MA1030 or MA1031 or MA1032 or MA1135/1160/1161/1121 ©	3
ACC2100-Accounting Principles II	ACC2000	3
MKT3000-Principles of Marketing		3
Essential Education – Activities for Well-Being and Success		1
Total		14

Second Year – Spring

Course	Prerequisites	Credit
BUS3000-Intr to Business Analytics	BUS2300	3
EC3100-International Economics	EC2001	3
MIS2000-IS/IT Mgt (Essential Ed STEM)		3
Essential Ed Communication Intensive		3
Total		12

Third Year – Spring

Course	Prerequisites	Credit
MGT4500-Managing Change in Organizations	MGT3000 and Jr or Sr	3
OSM4700-Logistics and Transportation Mgt	(MA2720/2720/3710 or CE3710 or CEE3710) and (MA1135/1161/1161/1121) and Jr or Sr	3
OSM4650-Six Sigma Fundamentals	(MA2720/2720/3710 or CE3710 or CEE3710) and (MA1135/1161/1161/1121) and Jr or Sr	3
Capstone (If doing Enterprise)		1
Essential Education – Intercultural Competency		3
Essential Education – Activities for Well-Being and Success		1
Total		13

Fourth Year – Spring

Course	Prerequisites	Credit
MGT4600-Mangement of Technology and Innovation	Jr or Sr	3
MGT4000-Strategic Management	Sr and MIS2000 and FIN3000 and OSM3000 and MGT3000 and MKT3000 and BUS2300	3
Capstone-Sr Enterprise, Business Cluster Class or BUS3900 (can be summer)	See list on back	2-3
Essential Education Experience		3
Free Electives		Variable based on Academic Planning
Total		11-???

B.S. Management w/Supply Chain and Operations Management Concentration (BMG1) Degree (Fall 2025 and later)

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

Grand Total = 120 Credits

1. **Essential Education Requirements:** 24 total credits. Required courses are *Essential Ed Seminar* (UN1013 or UN2013, 1 credit), *Composition* (UN1015-3 credits), a *Natural and Physical Science* course (3 credits), a *Communication Intensive* course (3 credits), an *Arts & Culture* course (3 credits), an *Intercultural Competency* course (3 credits), an *Essential Education Experience* course (3 credits), and 3 credits of *Activities for Well-being and Success*. The Essential Education and Activities for Well-Being list is available online at: <https://www.mtu.edu/registrar/pdfs/essential-education-course-lists-2025-2026.pdf>
2. **Concentration Electives** (9 credits):
PREREQS:
Option 1: ENTERPRISE (requires 4 semesters; 2 in Senior Year)
 - 2 semesters of 1 credit ENT with ENT1960/2950/2960/3950/3960/4961 **AND**
 - 2 semesters of 2 credit ENT with ENT4900 and 4910**Option 2: BUSINESS CLUSTER** (2 courses from same subject/prefix)

• ACC3500 -Managerial/Cost Accounting I-Sp AND ACC4500 -Managerial/Cost Accounting II-On Demand	ACC2100 or ACC3500
• EC3300 -Industrial Organization-F AND EC4200 -Econometrics-F	EC2001 (both) and MA2720 (EC4200)
• FIN4100 -Advanced Financial Management AND FIN4500 -Risk Management- Sp	FIN3000 or EC3400 and FIN4500 requires MA2720
• MGT3800 -Innovation & Entrepreneurship-F, Sp AND MGT4650 -Commercialization of Advcd Tech-Sp	So, Jr, Sr (for MGT3800) and MGT4600 and Jr or Sr (for MGT4650)
• MIS3100 -Business Database Modeling and Mgt-F AND MIS3200 -Systems Analysis and Design-Sp	MIS2000 (for MIS3100) and MIS2100 or CS1122 or CS1131 (for MIS3200)
• MKT4100 -Sales and Sales Technology-F AND MKT4200 -B2B Marketing in a Digital Age-Sp	MKT3000

Option 3: BUSINESS INTERNSHIP AND ADVANCED PROJECT MANAGEMENT

• *BUS3900 -Business Internship-F, Sp, Su	Submit Proposal in advance
• OSM4350 -Advanced Project Mgt-Sp with advisor	OSM/ENG4300 and Jr or Sr Must Apply-speak

**see advisor if doing co-op credits for exceptions-UN3002 is coop credit with Career Services*
3. **Prerequisite** (pre-req) course must be successfully completed **PRIOR** to taking the subsequent course.
Concurrent Prerequisites (concurrent noted by ©) may be taken at the same time, although it is not necessary if the prerequisite course is completed first.
Required Corequisite (co-req) courses that **MUST** be taken together in the same semester.
Class Standing: So (Sophomore Standing earned 30 credits) Jr (Junior Standing earned 60 credits), Sr (Senior Standing earned 90 credits)
Semester Offered: Noted under electives with F (Fall), Sp (Spring), Su (Summer) or On Demand (no anticipated offering but may show in the schedule, consult COB advisor)
4. **Math:** Students are placed into an initial math course based on ACT/SAT math score, the online ALEKS assessment, or a math placement exam score for credit (AP, IB, CLEP).
5. **Transfer, Advanced Placement, or study abroad courses** are not included in credit hours used for GPA calculations. Transfer credit is awarded for Michigan Tech equivalent course work only if a grade of 'C' or better (2.00/4.00) or equivalent is earned at a transfer institution. Study abroad credit will be awarded based on passing a course according to equivalent international standards. Advanced Placement credit is awarded according to published AP Exam score standards (also IB and CLEP).

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