

B.S. Construction Management 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
MA1032 Precalculus		4
SU2000 Intro to Surveying		2
ACC2000 Accounting		3
CMG1000 Intro to Construction Mgt		2
UN1015 Composition		3
Total		14

First Year – Spring

Course	Prerequisites	Credit
MA2720 Statistical Methods	MA1032	4
CMG1200 Intro to BIM		3
PH1140 Applied Physics	MA1032, PH1141 (Concurrent)	3
PH1111 College Physics Lab I	PH1140 (Co-req)	1
BU2200 Business Law		3
Essential Education - Foundations in the Human World		3
Total		17

Second Year – Fall

Course	Prerequisites	Credit
EC2001 Principles of Economics	MA1032	3
CMG2110 Building Utility Systems		4
GE2000 Understanding the Earth OR Ess Ed Natural Science Elective		3
Essential Education - Intercultural Competency (3000+)		3
Essential Education - Activities for Well-Being and Success		1
Total		14

Second Year – Spring

Course	Prerequisites	Credit
CMG2265 Construction Quantity Survey	CMG1000	3
CEE3332 Fundamentals of Construction	Sophomore Standing	3
CMG2120 Statics/Strength of Materials	PH1140	4
CMG2140 Building Materials & Methods		4
Essential Education - Arts & Culture		3
Total		17

Third Year – Fall

Course	Prerequisites	Credit
CMG4200 Construction Contracts	JR STDN, BUS2200 or CEE3332	3
CEE3101 Civil Engineering Materials	CMG2120	3
CMG3250 Structural Analysis & Design	JR STDN, CMG2120	3
CMG4400 Construction Safety MGT	JR STDN	3
HU3120 Tech & Professional Comm.	JR STDN, UN1015	3
Essential Education - Activities for Well-Being and Success		1
Total		16

Third Year – Spring

Course	Prerequisites	Credit
CMG3265 Construction Cost Est.	JR STDN, CEE3332	4
CMG3200 Site Planning & Develop.	JR STDN, SU2000	4
Essential Education – SHAPE		3
Essential Education Experience (3000+)		3
Essential Education - Activities for Well-Being and Success		1
Total		15

Fourth Year – Fall

Course	Prerequisites	Credit
CMG4300 Construction Finance & Accounting	JR STDN, ACC2000 or CEE3332 or EC3400	3
CMG4210 Construction Project Mgt.	JR. STDN, CEE3332 or CMG4200	4
HU2830 Public Speaking and Multimedia		3
Business Elective		3
Technical Elective		3
Total		16

Fourth Year – Spring

Course	Prerequisites	Credit
CEE4905 Senior Design	SR STDN, Complete 4 of the following: CEE3332, CMG3200, CMG3265, CMG4210, CMG4120	3
CMG4120 Construction Plan & Sched.	JR STDN, CMG3265 or CEE3332	3
CMG4800 Sustainable Construction	JR STDN	3
EC3400 Economic Decision Analysis	JR STDN	3
Business Elective		3
Total		15

Grand Total = 128 Credits

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1. **Essential Education Requirements:** 24 total credits. Required courses are UN1015-Composition (3 credits), a *Foundations in the Human World* course (3 credits), a [Communication Intensive](#) course (HU3120, 3 credits), an [Arts & Culture](#) course (3 credits), an [Intercultural Competency](#) (3000+) course (3 credits), a [SHAPE](#), an [Essential Education Experience](#) (3000+) course (3 credits), a *Natural and Physical Science* course (GE2000 or *Natural and Physical Science elective*), and 3 credits of [Activities for Well-being and Success](#).
2. **Business Electives:** 6 total credits. Pick 6 credits (2 courses) from the list below:
 - MGT 2000 Team Dynamics and Decision Making (F, S)
 - MGT 3000 Organizational Behavior (F, S)
 - MGT 3800 Innovation & Entrepreneurship (F, S)
 - OSM 3000 Operations & Supply Chain Management (F, S, Su)
 - OSM 3150 Intro to Supply Chain Management (F)
 - OSM 3600 Procurement and Supply Management (F)**PREREQS:**
 - Sophomore Standing
 - Sophomore Standing
 - Sophomore Standing
 - Junior Standing, MA1160/61, MA2720
 - OSM3000 (C)
 - Junior Standing
3. **Technical Electives:** 3 total credits. Students must choose from the list below:
 - BUS 2300 Quantitative Problem Solving (F, S)
 - CEE 3331 Professional Practice (F, S)
 - CEE 3401 Transportation Engineering (F, S)
 - CEE 3490 Intro to Rail Transportation (F)
 - CEE 4101 Bituminous Materials (F)
 - CEE 4233 Structural Timber Design (S)
 - CEE 4333 Estimating and Planning of Construction Projects (F)
 - CMG 4000 Design-Build Project Delivery (On Demand)
 - CMG 4100 Construction Equipment Management (On Demand)
 - CMG 4996 Spec. Topics in CMG (On Demand)
 - CMG 4997 Ind. Study in CMG (On Demand)
 - ENT 3959 Fundamentals of Six Sigma (F)
 - ENT 3967 Design of Six Sigma (S)
 - MGT 3000 Organizational Behavior (F, S)
 - MGT 4600 Management of Technology and Innovation
 - MKT 3000 Principles of Marketing (F, S, Su)
 - OSM 3000 Operations & Supply Chain Management (F, S, Su)
 - OSM 3150 Intro to Supply Chain Management (F)
 - OSM 3600 Procurement and Supply Management (F)
 - OSM 4650 Six Sigma Fundamentals (F, S)
 - SU 2050 Geospatial Computations (F)
 - SU 2220 Route/Engineering Surveying (S)
 - UN 3002 Undergrad Cooperative Education I (F, S, Su)**PREREQS:**
 - MA2720
 - Junior Standing
 - Sophomore Standing
 - Sophomore Standing
 - Senior Standing, CEE3101
 - CMG3250
 - CEE3332 or CMG3265
 - CMG3200 (C)
 - (CMG3265 or CEE3332) and EC3400
 - Senior Standing
 - Senior Standing
 - Sophomore Standing
 - Junior Standing
 - Sophomore Standing
 - Junior Standing
 - None
 - Junior Standing, MA1160/61, MA2720
 - OSM3000 (C)
 - Junior Standing
 - Junior Standing, MA2720
 - SU2000 (C)
 - SU2000 or SU2050
4. **Prerequisite** (pre-req) course must be successfully completed **PRIOR** to taking the subsequent course.
Concurrent Prerequisites (concurrent) 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.
Standing: JR STDN (Junior Standing), SR STDN (Senior Standing)
5. **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).
6. **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).

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