

CONSTRUCTION MANAGEMENT

The program is designed to provide a student with a background in managerial, technological, economic, social, political, and environmental aspects of residential and commercial construction. A systems approach is used and includes project management, construction science, land acquisition and development, real estate, finance, management, and marketing. Career opportunities include supervisory and managerial employment within commercial and residential contracting, land development, and real estate organizations; material distribution systems; financial institutions; and governmental agencies.

Admission as a Junior

Construction management builds upon a basic understanding of mathematics, physics, statistics, and economics to develop the skills necessary to manage construction projects. Prior to enrollment in the major, students must have demonstrated this basic understanding by a minimum performance in the course of 2.0 and a minimum overall grade point average of 3.00 in all CMP courses required for the major.

Enrollment in the construction management major is limited. Those seeking admission must at least meet the criteria listed below.

1. Completion of at least 56 credits.
2. Completion of the following courses with a minimum grade of 2.0 in each course:

MTH	124 Survey of Calculus I	3
PHY	231 Introductory Physics I	3
STT	200 Statistical Methods	3
Or		
STT	201 Statistical Methods	4
Or		
STT	315 Introduction Probability and Statistics for Business.	3
Or		
STT	421 Statistics I	3
EC	201 Introduction to Microeconomics	3
Or		
EC	202 Introduction to Macroeconomics	3
CMP	101 Principles of Construction Management	2
CMP	124 Residential Construction Materials and Methods	3
CMP	210 Commercial Construction Methods	3
CMP	222 Statics and Strengths of Materials	3
CMP	230 Utility Systems	4
CMP	245 Principles of Green Building.	3
3. Have either a cumulative grade-point average of 3.00 in the CMP courses listed in item 2. or a cumulative MSU grade-point average of 3.00.

While meeting all of the criteria above is necessary to be considered for admission to the Bachelor of Science Degree in Construction Management, it does not guarantee admission. Other factors such as work experience, personal experience, and diversity may also be considered.

For additional information about admissions criteria and procedures, students should contact the Construction Management Program in the School of Planning, Design, and Construction.

Requirements for the Bachelor of Science Degree in Construction Management

1. The University requirements for bachelor's degrees as described in the *Undergraduate Education* section of this catalog; 120 credits, including general elective credits, are required for the Bachelor of Science degree in Construction Management.

of 3.00 in all CMP courses required for the major

MSU grade-point average, construction management grade-point average,

The University's Tier II writing requirement for the Construction Management major is met by completing Construction Management 385 or 435 or 436. Those courses are referenced in item 3. below.

Students who are enrolled in the Construction Management major leading to the Bachelor of Science degree may complete an alternative track to Integrative Studies in ~~Biological and Physical Sciences~~ that consists of Physics 231 ~~and 251 and one of the following choices: Biological Science 161 and 171 or Biological Science 162 and 172 or Plant Biology 105 and 106 or Microbiology and Molecular Genetics 205 and 206.~~ The completion of Physics 251 ~~and Biological Science 171 or 172 or Plant Biology 106 or Microbiology and Molecular Genetics 206~~ satisfies ~~the~~ laboratory requirement. With advisor approval, ~~for this laboratory requirement, Biological Science 171 or 172, Plant Biology 106 and Microbiology and Molecular Genetics 206 may be waived if the student completes another chemistry laboratory course or a physics laboratory course beyond Physics 251.~~

credit
 one credit towards
 the second required
 satisfied

Physics 231 and 251 ~~and Biological Science 161 and 171 or 162 and 172 or Plant Biology 105 and 106 or Microbiology and Molecular Genetics 205 and 206~~ may be counted toward both the alternative track and the requirements for the major referenced in item 3. below.

The completion of the College of Agriculture and Natural Resources mathematics requirement may also satisfy the University mathematics requirement.

2. The requirements of the College of Agriculture and Natural Resources for the Bachelor of Science degree.

~~Certain courses referenced in requirement 3. below may be counted toward College requirements as appropriate.~~ The completion of Mathematics 124 satisfies the College's mathematics requirement. The completion of Mathematics 132, MTH 152H or Lyman Briggs 118 will also satisfy this requirement.

3. The following requirements for the major:

CREDITS
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a.	All of the following courses:	
	ACC 230 Survey of Accounting Concepts	3
	CMP 101 Principles of Construction Management	2
	CMP 124 Residential Construction Materials and Methods	3
	CMP 210 Commercial Construction Methods	3
	CMP 230 Utility Systems	4
	CMP 245 Principles of Green Building	3
	CMP 305 Site Construction and Measurement	3
	CMP 311 Construction Project Scheduling	3
	CMP 315 Construction Quantity Surveying	3
	CMP 322 Structural Systems	3
	CMP 325 Real Estate Principles and Construction Finance	4
	CMP 328 Construction Presentation Graphics and Building Information Modeling	2
	CMP 385 Construction Documents and Contracts (W)	3
	CMP 401 Construction Safety Management	3
	CMP 415 Cost Estimating and Analysis	3
	CMP 423 Construction Project Management	3
	COM 100 Human Communication	3
	GBL 323 Introduction to Business Law	3
	MTH 124 Survey of Calculus I	3
	PHY 231 Introductory Physics I	3
	PHY 251 Introductory Physics Laboratory I	1
	Students must have a minimum grade-point of 2.0 in each of the following courses: CMP 306, 311, 315, 322, 325, 328, 385, 401, 415, and 423.	
b.	One of the following courses (3 credits):	
	CE 221 Statics	3
	CMP 222 Statics and Strengths of Materials	3
c.	One of the following courses (3 or 4 credits):	
	CE 312 Soil Mechanics	4
	CE 471 Construction Engineering - Equipment, Methods and Planning	3
	CMP 445 Green and Energy Efficient Building Construction	3
	CMP 453 Land Development	3
	CMP 491 Special Topics in Construction Management	3
	CMP 493 Professional Internship in Construction Management	3
	IDES 240 Computer-Aided Design for Designers	3
	LA 230 Site Construction Materials and Methods	3
	PDC 491 Special Topics in Planning, Design and Construction	3
	UP 458 Housing and Real Estate Development	3
d.	One of the following courses:	3
	CMP 435 Residential Building and Development Projects (W)	3
	CMP 436 Commercial Building Projects (W)	3
	CMP 492 Capstone Project Competitions	3
e.	Complete 3 or 4 credits from the following courses:	3 or 4
	CEM 141 General Chemistry	4
	PHY 232 Introductory Physics II	3
f.	Complete one of the following courses:	3 or 4
	COM 225 An Introduction to Interpersonal Communication	3
	COM 240 Introduction to Organizational Communication	4
	ENG 226 Introduction to Creative Writing	3
	ENG 232 Writing as Exploration	3
g.	One of the following courses:	3 or 4
	STT 200 Statistical Methods	3
	STT 201 Statistical Methods	4
	STT 315 Introduction to Probability and Statistics for Business	3
	STT 421 Statistics I	3
h.	One of the following courses:	3
	EC 201 Introduction to Microeconomics	3
	EC 202 Introduction to Macroeconomics	3
i.	One of the following courses:	3

MGT 325 Management Skills and Processes 3

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with a minimum grade-point of 2.0 in each course.

FI	320	Introduction to Finance	3
MKT	327	Introduction to Marketing.	3
SCM	303	Introduction to Supply Chain Management.	3
SCM	304	Survey of Supply Chain Management.	3
j. Complete the following course:			3
MGT	325	Management Skills and Processes.	3