CONSTRUCTION MANAGEMENT PROGRAM

School of Planning, Design and Construction
College of Agriculture and Natural Resources

101 Principles of Building Construction Management
Fall, Summer. 2(2-0) R: Not open to seniors. SA: BCM 101

124 Residential Construction Materials and Methods
Spring, Summer. 3(3-0) RB: CMP 101 SA: BCM 124

210 Commercial Construction Methods
Fall, 3(3-0) P: (CMP 101 or concurrently) and CMP 124 SA: BCM 210 C: CMP 211 concurrently.

211 Building Codes
Fall, 3(3-0) P: (CMP 101 or concurrently) and CMP 124 SA: BCM 211 C: CMP 211 concurrently.

222 Statics and Strengths of Materials
Spring, 3(3-0) P: (CMP 210 and CMP 211) and (MTH 124 or MTH 132 or LBS 118) and (PHY 183 or PHY 201 or PHY 231 or PHY 231C) SA: BCM 222

230 Utility Systems
Spring, 4(4-0) P: CMP 210 and CMP 211 SA: BCM 230

305 Site Construction and Measurement
Fall, 3(2-2) P: CMP 230 R: Open only to juniors or seniors in the Construction Management major. SA: BCM 305

315 Construction Quantity Surveying
Spring, 3(2-2) P: CMP 305 and (CSE 101 or CSE 131 or CSE 231 or CSE 310 or LBS 126) R: Open only to juniors or seniors in the Construction Management or Civil Engineering major. SA: BCM 315

322 Structural Systems
Fall, 3(3-0) P: CMP 222 or (ME 221 or ME 222) R: Open only to juniors or seniors in the Construction Management or Civil Engineering majors. SA: BCM 322 Not open to students with credit in CE 406.

325 Real Estate Principles and Construction Finance
Fall, 4(4-0) P: (EC 201 or EC 202 or EC 251H or EC 252H) and (MTH 124 or MTH 132 or LBS 118) R: Open only to juniors or seniors in the Construction Management major or approval of department. SA: BCM 325

328 Construction Presentation Graphics
Fall, Spring, 2(1-2) P: CMP 230 and (CSE 101 or CSE 131 or CSE 231 or CSS 110 or LBS 126) R: Open only to juniors or seniors in the Construction Management major. SA: BCM 328

353 Land Development
Spring, 3(3-0) P: (CMP 211 and CMP 305) and (CMP 325 or UP 458) R: Open only to juniors or seniors in the Construction Management or Civil Engineering or Landscape Architecture or Urban and Regional Planning major. SA: BCM 353

385 Construction Documents and Contracts (W)
Spring, 3(3-0) P: (CMP 305) and completion of Tier I writing requirement R: Open only to juniors and seniors in the Construction Management or Civil Engineering or Landscape Architecture major. SA: BCM 385

401 Construction Safety Management
Spring, 3(3-0) P: CMP 305 RB: CMP 385 or (CMP 423 or concurrently) R: Open only to juniors or seniors in the Construction Management or Civil Engineering major. SA: BCM 401

411 Construction Project Scheduling
Fall, 3(2-2) P: (STT 200 or STT 201 or STT 315 or STT 421) and (CMP 315 and CMP 322) R: Open only to juniors or seniors in the Construction Management or Civil Engineering major. SA: BCM 411

415 Cost Estimating and Analysis
Fall, 3(2-2) P: CMP 315 and CMP 385 SA: BCM 415

423 Construction Project Management
Fall, Spring, 3(3-0) P: CMP 385 and (CMP 411 or concurrently) and (CMP 415 or concurrently) R: Open only to seniors in the Construction Management or Civil Engineering major. SA: BCM 423

435 Residential Building Projects (W)
Spring, 3(1-4) P: ((ACC 201 and ACC 202) or ACC 230) and ((CMP 328 and CMP 353 and (CMP 423 or concurrently)) and completion of Tier I writing requirement R: Open only to seniors in the Construction Management major. SA: BCM 435

451 Professional Internship in Building Construction Management
Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 8 credits in all enrollments for any or all of these courses: ABM 493, AEE 493, ANR 493, ANS 493, CMP 493, CSS 493, EEP 493, ESA 493, FIM 493, FSC 493, FW 493, HRT 493, PKG 493, PLP 493, and PRR 493. R: Open to students in the Construction Management major. Approval of department; application required. SA: BCM 451

481 Special Topics in Building Construction Management
Fall, Spring, 1 to 4 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Open only to Construction Management majors. Approval of department; application required. SA: BCM 481

490 Independent Study
Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 8 credits in all enrollments for any or all of these courses: ABM 493, AEE 493, ANR 493, ANS 493, CMP 493, CSS 493, EEP 493, ESA 493, FIM 493, FSC 493, FW 493, HRT 493, PKG 493, PLP 493, and PRR 493. R: Open to students in the Construction Management major. Approval of department; application required. SA: BCM 490

491 Special Topics in Building Construction Management
Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Open only to Construction Management majors. Approval of department; application required. SA: BCM 491

493 Professional Internship in Building Construction Management
Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for any or all of these courses: ABM 493, AEE 493, ANR 493, ANS 493, CMP 493, CSS 493, EEP 493, ESA 493, FIM 493, FSC 493, FW 493, HRT 493, PKG 493, PLP 493, and PRR 493. R: Open to students in the Construction Management major. Approval of department; application required. SA: BCM 493

Special problems in acquisition and development of residential land, design, construction technology, building materials, finance, marketing, construction management, or land use codes and regulations.

495 Professional Internship in Building Construction Management
Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Open only to Construction Management majors. Approval of department; application required. SA: BCM 495

Special problems in acquisition and development of residential land, design, construction technology, building materials, finance, marketing, construction management, or land use codes and regulations.
Construction Management Program—CMP

810  Construction Systems  
Fall, Spring. 1(0-2) R: Open only to gradu- 
ate students in the Construction Management 
major or Civil Engineering major or In-
terior Design major and Facilities Management 
major. SA: BCM 810 Not open to stu-
dents with credit in CMP 124 or CMP 210. 
Construction materials and methods in the U.S. 
Steel and wood construction.

811  Advanced Project Scheduling  
Fall. 3(2-2) SA: BCM 811 
Critical path analysis for effective and logical sched-
uling of construction projects. Identification of project 
activities and their relationships. Schedule develop-
ment, analysis, and updating. Relationship of project 
costs and resources to the schedule. Effective 
communication of schedule information.

815  Advanced Cost Estimating and Analysis  
Fall, Summer. 3(2-2) 
Advanced estimation of construction project costs: 
direct and indirect, labor, material, quantity survey-
ing, productivity, and equipment. Overhead and 
profit. Bidding. Role of contractor, owner, and archi-
tect or engineer. Computer-based estimating.

817  Construction Project Management & 
Information Systems  
Spring. 3(2-2) RB: Background in estimating 
and scheduling required. SA: BCM 817 Not open to students with credit in CMP 423. 
Construction project administration, project controls, 
information generation and utilization for the man-
age ment of construction projects. Integration of 
construction management software, and knowledge-
based models.

822  Contracts and Legal Issues in 
Construction  
Spring. 3(3-0) R: Open to masters students or doctoral students in the Construction Management major or in the Interior Design and Facilities Management major or in the Civil Engineering major or in the Master in Urban and Regional Planning. 
Construction contracts and documents. Application of Michigan and federal case law to construction and development claims and litigation.

831  Lean Construction Principles and 
Methods  
Spring. 3(2-2) RB: Some aspects of project man-
agement (scheduling, estimating), sta-
tistics, and probabilities. 

890  Special Problems  
Fall, Spring. Summer. 1 to 9 credits. A stu-
dent may earn a maximum of 9 credits in all 
enrollments for this course. R: Open to graduate students in the College of Agriculture and Natural Resources. Approval of department; application required. SA: BCM 890 
Individual study in land acquisition and develop-
ment, design, construction, management, finance, 
marketing, and structural analysis.

891  Advanced Topics in Building 
Construction Management  
Fall, Spring, Summer. 1 to 4 credits. A stu-
dent may earn a maximum of 8 credits in all 
enrollments for this course. R: Open only to graduate students in College of Agriculture and Natural Resources. Approval of de-
partment. SA: BCM 891 
Advanced topics in building construction manage-
ment.

892  Construction Management Research 
Seminar  
Fall. 2(2-0) R: Open only to graduate stu-
dents in the College of Agriculture and Natu-
rals Resources or College of Engineering or 
College of Human Ecology. SA: BCM 892 
Current areas and topics of research in construction 
management. Resources of research results, analy-
ysis of existing research, and development of prelimi-
nary proposal.

898  Master's Research  
Fall, Spring, Summer. 1 to 3 credits. A stu-
dent may earn a maximum of 6 credits in all 
enrollments for this course. R: Open only to master's students in the Construction Management major. SA: BCM 898 
Master's degree research paper.

899  Master's Thesis Research  
Fall, Spring, Summer. 1 to 10 credits. A 
student may earn a maximum of 99 credits in all 
enrollments for this course. R: Open only to master's students in the Construction Management major. SA: BCM 899 
Master's thesis research.