College of Architecture and Urban Studies
Myers-Lawson School of Construction
Bachelor of Science
Major: Building Construction
For students entering under UG Catalog 2021-2022
131 credits required for degree

I. Pathways to General Education (45 credit hours)

1 Concept 1: Discourse
COMM 1015  Communication Skills (1F Foundational)  3
or ENGL 1105 First Year Writing
COMM 1016  Communication Skills (1F Foundational) Pre: 1015  3
or ENGL 1106 First Year Writing Pre: 1105
ENGL 3764  Technical Writing (1a Advanced/Applied) Pre: 1106 or 1204 or COMM 1016, Jr Standing  3

2 Concept 2: Critical Thinking in the Humanities
Choose any Pathways 2 elective  3
Choose Pathways 2 and 7 course  3

3 Concept 3: Reasoning in the Social Sciences
ECON 2005  Principles of Econ  3
or AAEC 1005 Econ Food Fiber Systems
ECON 2006  Principles of Econ Pre: 2005  3
or AAEC 1006 Econ Food Fiber Systems

4 Concept 4: Reasoning in the Natural Sciences
PHYS 2305† Foundations of Physics I  4
Pre: MATH 1225
GEOS 1004  Intro to Earth Science  3
and GEOS 1104  Intro to Earth Science Lab  1

5 Concept 5: Quantitative and Computational Thinking
MATH 1225  Calculus of a Single Variable (SF Foundational) (C-)  4
ACIS 1004  Accounting Foundations (SF Foundational)  3
BC 2214  Why Buildings Stand Up (S Advanced/Applied) Pre: MATH 1225 or 1025  3

6 Concept 6: Critique and Practice in Design and the Arts
Choose any 6a (Arts) Elective  3
Choose any 6d (Design) Elective  3

7 Concept 7: Critical Analysis of Identity and Equity in the US†
† Some Pathways 7 courses may be double counted with Pathways 2 courses. Consult timetable and advisor for appropriate courses.

II. Degree Core Requirements  30 credit hours

III. Major Requirements  29 credit hours

IV. Track Requirements  27 credit hours

Total  131 credit hours
II. Degree Core Requirements  (30 credit hours)

In accordance with SCHEV guidelines, courses used to fulfill the SCHEV approved degree core may not also be used to meet Pathways for Building Construction or major requirements.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BC 1214</td>
<td>Introduction to Building Construction I</td>
<td>3</td>
</tr>
<tr>
<td>BC 1224</td>
<td>Introduction to Building Construction II + Lab Pre: 1214 (C)</td>
<td>3</td>
</tr>
<tr>
<td>BC 204</td>
<td>Construction Principles I Pre: 1224</td>
<td>3</td>
</tr>
<tr>
<td>BC 2024</td>
<td>Construction Principles II Pre: 1214, 1224, 2014 or 4264 Co: 2064</td>
<td>3</td>
</tr>
<tr>
<td>BC 2044</td>
<td>Buildings and Materials Pre: 2214 or CEM 2104 or CNST 2104</td>
<td>3</td>
</tr>
<tr>
<td>BC 2064</td>
<td>Integrated Construction Series I Pre: (2014, 2114) or 4264 or CEM 2104</td>
<td>3</td>
</tr>
<tr>
<td>BC 2114</td>
<td>IT in Design and Construction Pre: 1224 or CNST 2104 or CEM 2104 Co: 2014</td>
<td>3</td>
</tr>
<tr>
<td>BC 3064</td>
<td>Intergrated Construction II Pre: (2064, 3114, PHYS 2305) or (3114, CEM 2104, PHYS 2305)</td>
<td>3</td>
</tr>
<tr>
<td>BC 3114</td>
<td>Building Systems Technology Pre: (2024 or CNST 2104 or CEM 2104), PHYS 2305</td>
<td>3</td>
</tr>
<tr>
<td>BC 4064</td>
<td>Integrated Construction III Pre: 3064</td>
<td>3</td>
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III. Major Requirements  (29 credit hours)

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>BC 2104</td>
<td>Building Effective Construction Teams Pre: 1224 or 4264, (COMM 1016 or ENGL 1106)</td>
<td>3</td>
</tr>
<tr>
<td>BC 2134</td>
<td>Construction Data Analysis Pre: MATH 1114</td>
<td>2</td>
</tr>
<tr>
<td>BC 3134</td>
<td>(CEM 3134) (CNST 3134) Temporary Structures Pre: (2044, 2024) or CEE 3684</td>
<td>3</td>
</tr>
<tr>
<td>BC 4164</td>
<td>Process Planning and Design Pre: 3114, 3064</td>
<td>3</td>
</tr>
<tr>
<td>BC 4434</td>
<td>Construction Practice I Pre: (2044,3064) or CEM 2104. Co: 4064</td>
<td>3</td>
</tr>
<tr>
<td>BC 4444</td>
<td>Construction Practice II Pre: 4434</td>
<td>4</td>
</tr>
<tr>
<td>CEM 3084</td>
<td>Construction Economy Pre: CEM 2104 or BC 2024</td>
<td>3</td>
</tr>
<tr>
<td>FIN 3054</td>
<td>Legal and Ethical Environment of Business Pre: Junior Standing</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1114</td>
<td>Elementary Linear Algebra</td>
<td>2</td>
</tr>
<tr>
<td>MGT 3304</td>
<td>Management Theory &amp; Leadership Practice Pre: Sophomore Standing</td>
<td>3</td>
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IV. Choose 1 of the 4 Tracks below to complete degree requirements  (27 credit hours)

Emergent Technologies for Construction, Housing and Development (ET)

<table>
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<tr>
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<tbody>
<tr>
<td>BC 2354</td>
<td>Residential Construction Technologies Pre: 2014</td>
<td>3</td>
</tr>
<tr>
<td>BC 4324</td>
<td>Innovation in Residential Construction Pre: 2024, 3114</td>
<td>3</td>
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<tr>
<td>BC 4374</td>
<td>Residential Housing &amp; Land Development Pre: 2064, 3064. Co: 4064</td>
<td>3</td>
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<tr>
<td></td>
<td>Business &amp; Management Elective¹</td>
<td>3</td>
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<td></td>
<td>Business &amp; Management Elective²</td>
<td>3</td>
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<td></td>
<td>Cognate Elective ³</td>
<td>3</td>
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<td>Cognate Elective ²</td>
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<td>Cognate Elective ³</td>
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<td>Free Elective</td>
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Sustainable Building Performance (SBP)

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<tr>
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<tbody>
<tr>
<td>BC 3014</td>
<td>Building Physics &amp; Environmental Systems Pre: PHYS 2305</td>
<td>3</td>
</tr>
<tr>
<td>BC 4314</td>
<td>Building Performance &amp; Energy Management Pre: 3014</td>
<td>3</td>
</tr>
</tbody>
</table>
Sustainable Building Performance Management  Pre: 3064, 3014
  Business & Management Elective
  Business & Management Elective
  Cognate Elective
  Cognate Elective
  Cognate Elective
  Free Elective

Information Systems in Built Environment (ISBE)

BC  4114  BIM in Design and Construction  Pre: 2114, CS 1014 or (ENGE 1215 and ENGE 1216)
BC  4124  Digital Construction & Manufacturing  Pre: 2114
BC  4364  Lifecycle BIM for Facility Management  Pre: 2114, 3114
CS  1014  Introduction to Computational Thinking
  Business & Management Elective
  Business & Management Elective
  Cognate Elective
  Cognate Elective
  Cognate Elective

Directive Elective (DE) Track

Students pursuing double majors or minors may use courses from their other major for directed electives to build their own track as long as the courses are not building construction major requirements. Students must have a plan of study signed by the Department Head or Assistant Director of Student Affairs comprised of courses to form a focused area of study for this track.

Business & Management Elective
Business & Management Elective
Department Approved Elective
Department Approved Elective
Department Approved Elective
Department Approved Elective
Department Approved Elective

Business and Management Electives (Choose 6 credits from the following.)

AAEC  3324  Environment & Sustainable Development Economics  Pre: 1005 or 1006 or Econ 2005
AAEC  3454  Small Business Mgt & Entrepreneurship  Pre: AAEC 2434 or ACIS 2115 or MGT 3064
ACIS  2116  Principles of Accounting  Pre: 2115 (C-)
ISE  4004  Theory of Organization
MGT  2064  Foundations of Entrepreneurs
MGT  2354  Teams, Leadership, & Business Pre: Sophomore Standing
MGT  3064  Cornerstones Entrepreneurship Pre: MGT 2064 and completion of 45 credit hours and two Area
MKTG 3104  Marketing Management  Pre: Junior Standing  3
MKTG 4734  Real Estate Marketing  Pre: 3104 or 3104H, Junior Standing  3
REAL 2004  Principles of Real Estate (UAP 2004)  3

3 Cognate Electives: Students must have a cognate plan of study signed by their advisor, comprised of 9 credits to form a focused area of study.

PLEASE READ ALL NOTES CAREFULLY:

Policy on Satisfactory Progress Toward a Degree:

University Policy 91 outlines university-wide minimum criteria to determine if students are making satisfactory progress toward the completion of their degrees. The Department of Building Construction fully supports this policy. Specific expectations for satisfactory progress for BC majors are as follows:

Upon having attempted 72 credit hours (entering as freshman) or 90 credit hours (entering as transfer), a student must successfully complete BC 1224, 2064, 2114, 2214, MATH 1225, PHYS 2305. Student who does not meet the requirements will be notified upon reaching 72 credit hours (or 90 credit hours for transfer students) that they must complete any missing courses before being allowed to continue into the Professional/Upper Level BC courses. (BC Professional/Upper Level courses are all 3000 and 4000 level BC courses.) Student will have two terms of enrollment to rectify any deficiencies. Failure to complete these pivotal courses within 2 semesters will result in student being required to transfer out of the major. This policy is strictly enforced.

GPA Statement: Graduation/GPA requirements to include: Each student must meet the minimum University-wide criteria as described in Policy 91 and summarized in the Undergraduate Catalog. In-major and overall GPA required to graduate is 2.0.

In-Major GPA: Consists of all courses under the BC designation.

All BC courses are not to be repeated more than three times, including late course withdrawals.

Foreign Language Requirement: Minimum requirement may be met in high school by completing 2 units of a single foreign or classical language. Students who do not satisfy the foreign language requirement in high school may do so by taking six credits of college-level foreign language (classical language or American Sign Language). These six credits do not count toward the total minimum hours required of the declared degree program.

Prerequisites for courses are listed in the Undergraduate Course Catalog. It is the responsibility of the student to make sure the prerequisites for each course have been met. Students who enroll in a course for which they clearly have not satisfied the prerequisites or equivalent may be dropped from the course. Deliberate false statements testifying to the satisfaction of prerequisites constitute a violation of the honor code.

Statement of Hidden Prerequisites: Pre-requisites for each course are listed after the course title. The letter grade notation, such as (C-) indicates the minimum grade students must earn in the pre-requisite course. There are no hidden pre-requisites in this program of study.