


























## 2024 - 2025 Major Map

### Construction Management and Technology, BS

School/College: [Ira A. Fulton Schools of Engineering](#)  
ESCONMGTBS

| Term 1 0 - 15 Credit Hours Critical course signified by                  | Hours | Minimum Grade | Notes   |
|---|-------|---------------|---|
|  CON 100: Introduction to Construction                                   | 2     | C             | <ul style="list-style-type: none"> <li>ASU 101 or college-specific equivalent First-Year Seminar required of all first-year students and should be taken the first semester.</li> <li>Prep for success using the <a href="#">First-Year Student Guide</a>.</li> <li>Join a <a href="#">Fulton community</a>.</li> <li>Explore <a href="#">engineering and technical professions</a>.</li> </ul> |
|  CON 101: Construction and Culture: a Built Environment (HUAD OR HU & H) | 3     | C             |   |
|  CON 252: Building Construction Methods, Materials, and Equipment        | 3     | C             |   |
|  MAT 170: Precalculus (MATH OR MA)                                       | 3     | C             |   |
| ASU 101-CON: The ASU Experience   | 1     |               |   |
| ENG 101 or ENG 102: First-Year Composition OR<br>ENG 105: Advanced First-Year Composition OR<br>ENG 107 or ENG 108: First-Year Composition                | 3     | C             |   |
|  Minimum 2.00 GPA ASU Cumulative.                                      |       |               |   |
| Term hours subtotal:  | 15    |               |   |
| Term 2 15 - 31 Credit Hours Critical course signified by               | Hours | Minimum Grade | Notes   |
|  CON 244: Working Drawing Analysis                                     | 3     | C             | <ul style="list-style-type: none"> <li>Create a <a href="#">Handshake</a> profile.</li> <li>Get involved with EPICS, the Generator Labs, and the <a href="#">Fulton Start-Up Center</a>.</li> </ul>   |
| COM 225: Public Speaking (CIVI OR L)  | 3     |               |   |
| ENG 101 or ENG 102: First-Year Composition OR<br>ENG 105: Advanced First-Year Composition OR<br>ENG 107 or ENG 108: First-Year Composition                | 3     | C             |   |
| PHY 111: General Physics (SCIT OR SQ)   | 3     | C             |   |
| PHY 113: General Physics Laboratory (SCIT OR SQ)  | 1     | C             |   |
| Humanities, Arts and Design (HUAD)  | 3     |               |   |
|  Complete ENG 101 OR ENG 105 OR ENG 107 course(s).                     |       |               |   |
|  Minimum 2.00 GPA ASU Cumulative.                                      |       |               |   |
| Term hours subtotal:  | 16    |               |   |
| Term 3 31 - 46 Credit Hours Critical course signified by               | Hours | Minimum Grade | Notes   |
|  CON 221: Applied Statics  | 3     | C             | <ul style="list-style-type: none"> <li>Prep for success using the <a href="#">Sophomore Guide</a>.</li> </ul>   |
|  CON 251: Microcomputer Applications for Construction                  | 3     | C             |   |
| CON 243: Heavy Construction Equipment, Methods and Materials  | 3     | C             |   |
| ECN 211: Macroeconomic Principles (SOBE OR SB)  | 3     |               |   |
| STP 226: Elements of Statistics (QTRS OR CS)  | 3     |               |   |
|  Minimum 2.00 GPA ASU Cumulative.                                      |       |               |   |
| Complete Mathematics (MATH) requirement.  |       |               |   |
| Term hours subtotal:  | 15    |               |   |
|   |       | Minimum       |   |

| Term 4 46 - 61 Credit Hours <b>Critical course signified by</b>        | Hours | Grade         | Notes   |
|--|-------|---------------|---|
|  CON 223: Strength of Materials                                       | 3     | C             | <ul style="list-style-type: none"> <li>Pursue an <b>undergraduate research experience</b>.</li> <li>Apply for <b>internships</b>.</li> <li>Attend <b>career fairs and events</b>.</li> </ul>  |
|  CON 271: Construction Safety   | 3     | C             |   |
| CON 241: Surveying   | 3     | C             |   |
| CON 345: Mechanical Systems  | 3     |               |   |
| American Institutions (AMIT)   | 3     |               |   |
| Term hours subtotal:   | 15    |               |   |
| Summer 4 61 - 62 Credit Hours  | Hours | Minimum Grade | Notes   |
| CON 296: Summer Field Internship   | 1     | C             |   |
| Term hours subtotal:   | 1     |               |   |
| Term 5 62 - 77 Credit Hours <b>Necessary course signified by</b>      | Hours | Minimum Grade | Notes   |
|  CON 310: Testing of Materials for Construction                       | 2     |               | <ul style="list-style-type: none"> <li>Plan for success using the <b>Junior Guide</b>.</li> <li>Network at <b>student organization</b> competitions or professional societies.</li> </ul>   |
| CON 273: Electrical Construction Fundamentals and Project Management   | 3     | C             |   |
| CON 383: Construction Estimating OR CON 486: Infrastructure Construction Estimating  | 3     |               |   |
| CON 453: Construction Technology   | 3     |               |   |
| Scientific Thinking in Natural Sciences (SCIT)   | 4     |               |   |
| Term hours subtotal:   | 15    |               |   |
| Term 6 77 - 92 Credit Hours <b>Necessary course signified by</b>    | Hours | Minimum Grade | Notes   |
|  CON 495: Construction Planning and Scheduling (CS)                 | 3     |               | <ul style="list-style-type: none"> <li>Research and prepare for <b>graduate school</b>.</li> <li>Apply for an <b>engineering 4+1 program</b>.</li> <li>Develop a <b>professional profile online</b>.</li> </ul>   |
| CON 424: Structural Design   | 3     |               |   |
| CON 448: Sustainable Construction  | 3     |               |   |
| MGT 380: Management and Strategy   | 3     |               |   |
| Upper Division Construction Elective   | 3     |               |   |
| Term hours subtotal:   | 15    |               |   |
| Summer 6 92 - 93 Credit Hours  | Hours | Minimum Grade | Notes   |
| CON 484: Internship  | 1     |               |   |
| Term hours subtotal:   | 1     |               |   |
| Term 7 93 - 108 Credit Hours <b>Necessary course signified by</b>   | Hours | Minimum Grade | Notes   |
|  CON 455: Construction Project Management                           | 3     |               | <ul style="list-style-type: none"> <li>Students must have a minimum 2.50 GPA in order to take LES 305.</li> <li>Plan for success using the <b>Senior Guide</b>.</li> <li>Use <b>Handshake</b> to apply for full-time positions.</li> <li>Complete an in person or virtual <b>practice interview</b>.</li> </ul> |
| ACC 382: Accounting and Financial Analysis   | 3     |               |   |
| CEE 400: Earth Systems Engineering and Management (SUST OR (L or HU) & H)  | 3     |               |   |
| CON 487: Project Controls  | 3     |               |   |
| Global Communities, Societies and Individuals (GCSI)   | 3     |               |   |
| Term hours subtotal:   | 15    |               |   |
| Term 8 108 - 120 Credit Hours <b>Necessary course signified by</b>  | Hours | Minimum Grade | Notes   |
|  CON 491: Construction Project Capstone                             | 3     |               |   |
| CON 496: Construction Contract Administration (L)  | 3     |               |   |
| LES 305: Business Law and Ethics for Managers  | 3     |               |   |
| Upper Division Construction Elective   | 3     |               |   |

Term hours subtotal: 12

Hide Course List(s)/Track Group(s)

Construction Elective

3\*\* Elective

4\*\* Elective

- **Total Hours:** 120
- **Upper Division Hours:** 45 minimum
- **University Undergraduate Graduation Requirements**

**Notes:**

Mathematics Placement Assessment score determines placement in first mathematics course.

General Studies designations listed next to courses on the major map were valid for the 2024 - 2025 academic year. Please refer to the course catalog for current General Studies designations at time of class registration. General Studies credit is applied according to the designation the course carries at the time the class is taken.