# Construction Engineering Technology

## Freshman Year

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
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<tbody>
<tr>
<td>CHMY 121IN</td>
<td>Introduction to General Chemistry</td>
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<td>Intro To Civil Engineering</td>
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<td>ECNS 101IS</td>
<td>Economic Way of Thinking</td>
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<tr>
<td>M 165Q</td>
<td>Calculus for Technology I</td>
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<td>University Seminar</td>
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<tr>
<td>COMX 111US</td>
<td>Introduction to Public Speaking (formerly COM 110US)</td>
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<td>Knowledge and Community</td>
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<td>US 101US</td>
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<td>LS 101US</td>
<td>Interdisciplinary Ways of Knowing</td>
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<td>BGEN 10HUS</td>
<td>Business &amp; Entrepreneurship Fundamentals Seminar</td>
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<td>DDSON 131</td>
<td>Introduction to Drafting and Design</td>
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<tr>
<td>M 166</td>
<td>Calculus for Technology II</td>
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<td>PHSX 205</td>
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<td>WRIT 101W</td>
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<td>ETCC 204</td>
<td>Appld Analysis for Const Tech</td>
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## Sophomore Year

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<td>EGEN 203</td>
<td>Applied Mechanics</td>
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<td>DDSN 166</td>
<td>Revit I</td>
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<td>PHSX 207</td>
<td>College Physics II</td>
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<td>SRVY 230</td>
<td>Intro to Surveying for Engineers</td>
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<td>Choose one of the following:</td>
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<td>BMGT 205</td>
<td>Prof Business Communication</td>
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<td>WRIT 201</td>
<td>College Writing II</td>
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<td>WRIT 221</td>
<td>Intermediate Tech Writing</td>
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<td>HONR 202IH</td>
<td>Texts and Critics: Knowledge &amp; Imagination II</td>
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## Junior Year

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<tbody>
<tr>
<td>EGEN 208</td>
<td>Applied Strength of Materials (University Core)</td>
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<td>ETCC 243</td>
<td>Building Materials and Systems</td>
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<td>SRVY 273</td>
<td>Route Surveying*</td>
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<td>EMAT 251</td>
<td>Materials Structures and Prop</td>
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<td>GPHY 284</td>
<td>Intro to GIS Science &amp; Cartog</td>
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<td>Choose one of the following:</td>
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<td>ACTG 201</td>
<td>Principles of Financial Acct</td>
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<td>BGEN 210</td>
<td>Accounting and Finance Basics</td>
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## Senior Year

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<th>Spring</th>
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<tbody>
<tr>
<td>BGEN 361</td>
<td>Principles of Business Law</td>
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<td>ECIV 311</td>
<td>Construction Project Documentation*</td>
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<td>Construction Project Planning and Scheduling**</td>
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<td>Structural Elements**</td>
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<td>ETME 425</td>
<td>Building Systems (Tech. Prof. Electives)**</td>
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<td>Tech. Prof. Electives</td>
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<td>ECIV 404</td>
<td>Heavy Const Equip and Methods**</td>
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<td>ETCC 499R</td>
<td>Capstone: Const Engin Tech**</td>
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<td>University Core (IH, IA/RA or D)</td>
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<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
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<tbody>
<tr>
<td>Total Program Credits</td>
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<td>128</td>
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</table>
Key courses

Advanced courses

Additional requirements: At least 14 credits of technical-professional electives with a minimum of 2 credits of Internship Electives (maximum 6 credits). See the CET flow chart for a list of Internship Electives. A maximum of 6 credits total from Individual Problems, Internships (if taking 2 internships, must be from two separate employers), and Undergraduate Research may be counted toward professional electives. Students must successfully complete all key courses (*) prior to taking any advanced courses (**) which includes professional electives. A maximum of 3 credit-hours may be included from a completed MSU minor, a prior or concurrent BS/BA degree in another major, or courses in a completed MSU Honors Program. A student may petition to include other senior or graduate level courses consistent with the degree program but not listed here (requires Academic Advisor and Department Head approval).

A minimum of 128 credits is required for graduation; 42 of these credits must be in courses numbered 300 and above.

### Technical-Professional Electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BMGT 322</td>
<td>Operations Management</td>
<td>3</td>
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<tr>
<td>BMGT 329</td>
<td>Human Resource Management</td>
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<tr>
<td>BMGT 335</td>
<td>Management and Organization</td>
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<td>BMGT 410</td>
<td>Sustainable Business Practices</td>
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<tr>
<td>DDSN 245</td>
<td>Civil Drafting</td>
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<tr>
<td>ECIV 309</td>
<td>Building Information Modeling in Construction</td>
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<tr>
<td>ECIV 334</td>
<td>Heavy Civil Construction Planning and Estimating</td>
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<tr>
<td>ECIV 350</td>
<td>Transportation Engineering</td>
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<tr>
<td>ECIV 401</td>
<td>Civil Eng Practice and Ethics</td>
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<td>ECIV 456</td>
<td>Highway Geometric Design</td>
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<td>ECIV 406</td>
<td>Sustainability Issues in Construction</td>
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<td>ECIV 417</td>
<td>Heavy Civil Construction Practices</td>
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<tr>
<td>ECIV 492</td>
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<tr>
<td>EGEN 324</td>
<td>Applied Thermodynamics</td>
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<td>EIND 313</td>
<td>Work Design and Analysis</td>
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<td>Technology Entrepreneurship</td>
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<td>EIND 434</td>
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<td>SRVY 355</td>
<td>Surveying Calculations</td>
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<td>Intro Legal Princ in Surveying</td>
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<td>SRVY 362</td>
<td>Public Land Survey System</td>
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<td>SRVY 375</td>
<td>Analytic Photogrammetry and Remote Sensing</td>
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<td>GPHY 426</td>
<td>Remote Sensing</td>
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