Construction Engineering Technology 1+3 Agreement with MSU Bozeman

The 1+3 Agreement with articulated coursework in Engineering and General Education is designed for students interested in a Bachelor of Science degree in Construction Engineering Technology at Montana State University.

Estimated Cost

Estimated Resident Program Cost*

Estimated costs are for the Great Falls College portion of this curriculum. Please contact the partnering school for information on the estimated cost of classes there.

<table>
<thead>
<tr>
<th>Tuition and Fees</th>
<th>$3,418</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application Fee</td>
<td>$30</td>
</tr>
<tr>
<td>Lab Fees</td>
<td>$85</td>
</tr>
<tr>
<td>Books/Supplies</td>
<td>$644</td>
</tr>
<tr>
<td>Total</td>
<td>$4,177</td>
</tr>
</tbody>
</table>

* Fall 2017 MUS Student Health Insurance Premiums will be changing. Please check the Health Insurance website (http://students.gfcmsu.edu/insurance.html) and/or Student Central for confirmed premium rates. Students will be charged an additional fee of $21 per credit for online/hybrid courses.

Program Requirements

Year 1: Courses taken at GFC MSU

Many students need preliminary math, science, and writing courses before enrolling in the program requirements. These courses may increase the total number of program credits. Students should review their math and writing placement before planning out their full program schedule.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
<th>Grade/Sem</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHMY 121</td>
<td>Intro to General Chem w/Lab **, +</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>COMX 111</td>
<td>Intro to Public Speaking +</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ECNS 201</td>
<td>Principles of Microeconomics +</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GEO 101</td>
<td>Intro to Physical Geology/Lab +</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>WRIT 101</td>
<td>College Writing I **, +</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>** Indicates prerequisite needed</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>** Placement in course(s) is determined by placement assessment</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>*** Assumes COMX 111 transfers to MSU Bozeman with a US Core designation</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
<th>Grade/Sem</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>University Core -- Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Art (IA and RA) Options</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MUSI 101 Enjoyment of Music +</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MUSI 103 Fundamentals of Musical Creation +</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MUSI 203 American Popular Music +</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MUSI 207 World Music (equiv to 307) +</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PHOT 154 Exploring Digital Photography +</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ARTZ 105 Visual Language-Drawing +</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
<th>Grade/Sem</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSTA 101</td>
<td>American History I ((N)) +</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HSTA 102</td>
<td>American History II ((N)) +</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>LIT 110</td>
<td>Intro to Lit +</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PHL 101</td>
<td>Introduction to Philosophy +</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PHL 110</td>
<td>Introduction to Ethics +</td>
<td>3</td>
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</tr>
<tr>
<td></td>
<td>Diversity (D) Options</td>
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<tr>
<td>EDU 211</td>
<td>Multicultural Education +</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>NASX 232</td>
<td>MT Ind Cltrs/History/ISS (=332) ((IN)) *</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SPNS 102</td>
<td>Elementary Spanish II *</td>
<td>4</td>
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</table>

| Total Credits | 33 |

Years 2-4: Outline for Completion of the Bachelor of Science in Construction Engineering Technology Degree at Montana State University

The following courses would be taken at MSU in Bozeman after transferring with Year 1 coursework from Great Falls College. These courses are all
required for degree completion; the course sequencing indicated below is a general guide on when they can be taken.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
<th>Grade/Sem</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year 2 - Fall Semester</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DDSN 131</td>
<td>Engr Graphics &amp; Computer Aided Drafting</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>EMAT 251</td>
<td>Materials - Structures and Properties</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ETCC 204</td>
<td>Applied Analysis for Construction Technology</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>M 165Q</td>
<td>Calculus for Technology I*</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>STAT 216</td>
<td>Introduction to Statistics</td>
<td>4</td>
<td></td>
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<tr>
<td>University Core (Art, Humanities, or Diversity)</td>
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<tr>
<td><strong>Subtotal</strong></td>
<td></td>
<td>16</td>
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<tr>
<td><strong>Year 2 - Spring Semester</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EGEN 203</td>
<td>Applied Mechanics *</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>M 166Q</td>
<td>Calculus for Technology II*</td>
<td>3</td>
<td></td>
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<tr>
<td>PHSX 207</td>
<td>College Physics II</td>
<td>4</td>
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<tr>
<td>SRVY 230</td>
<td>Intro to Surveying for Engineers</td>
<td>3</td>
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<tr>
<td><strong>Select one of the following:</strong></td>
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<tr>
<td>ACTG 201</td>
<td>Principles of Accounting</td>
<td>3</td>
<td></td>
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<tr>
<td>ACTG 220</td>
<td>Principles of Managerial Accounting</td>
<td>3</td>
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<tr>
<td>EIND 373</td>
<td>Production Inventory Cost Analysis</td>
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<td><strong>Subtotal</strong></td>
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<td>16</td>
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<tr>
<td><strong>Year 3 - Fall Semester</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECIV 308</td>
<td>Construction Practice +</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>EGEN 208</td>
<td>Applied Strength of Materials +</td>
<td>3</td>
<td></td>
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<tr>
<td>EGEN 310R</td>
<td>Multidisciplinary Engineering Design</td>
<td>3</td>
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<tr>
<td>EGEN 330</td>
<td>Business Fundamentals for Technical Professionals</td>
<td>3</td>
<td></td>
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<tr>
<td>EGEN 331</td>
<td>Applied Mechanics of Fluids +</td>
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<tr>
<td><strong>Subtotal</strong></td>
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<td>15</td>
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<tr>
<td><strong>Year 3 - Spring Semester</strong></td>
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<tr>
<td>ARCH 241</td>
<td>Building Construction I +</td>
<td>3</td>
<td></td>
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<tr>
<td>ECIV 307</td>
<td>Construction Estimating and Bidding Practice +</td>
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<tr>
<td>ECIV 309</td>
<td>Building Information Modeling</td>
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<tr>
<td>ETCC 302</td>
<td>Soils and Foundations</td>
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<tr>
<td>ETCC 310</td>
<td>Concrete Technology +</td>
<td>3</td>
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<tr>
<td>SRVY 273</td>
<td>Route Surveying +</td>
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<td><strong>Subtotal</strong></td>
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<tr>
<td><strong>Year 4 - Fall Semester</strong></td>
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<tr>
<td>ARCH 331</td>
<td>Environmental Controls I +</td>
<td>4</td>
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<tr>
<td>ECIV 311</td>
<td>Construction Project Documentation +</td>
<td>2</td>
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<tr>
<td>ECIV 404</td>
<td>Heavy Construction Equipment and Methods +</td>
<td>3</td>
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<tr>
<td>ELE 354</td>
<td>Electric Power Applications +</td>
<td>3</td>
<td></td>
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<tr>
<td>Professional Electives +</td>
<td>3</td>
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<td></td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td></td>
<td>15</td>
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<tr>
<td><strong>Year 4 - Spring Semester</strong></td>
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<tr>
<td>BGEN 361</td>
<td>Principles of Business Law</td>
<td>3</td>
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<tr>
<td>ECIV 405</td>
<td>Construction Project Planning and Scheduling +</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ETCC 412</td>
<td>Structural Elements +</td>
<td>3</td>
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<tr>
<td>ETCC 499R</td>
<td>Capstone: Construction Engineering Technology +</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Key courses

Advanced courses

Professional electives must include: a minimum of two and maximum of four credits combined from ETCC 498 (Internship -- often taken in the summer between junior and senior year), ETCC/ECIV 492 (Reno Prep Class and Independent Study), and ETCC 490 (Independent Study). A maximum of 3 credit-hours may be included from a complete 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).

Students must successfully complete all key courses prior to taking any advanced courses.

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