Individual Program Transfer Articulation Agreement

Between the Maine Community College System acting by and through
Eastern Maine Community College
And the University of Maine System acting by and through
The University of Maine

For Transfer From
Associate in Applied Science in Civil Engineering Technology (CET)

To
Bachelor of Science in Construction Engineering Technology

This Transfer Articulation Agreement is governed by the general Transfer Articulation Agreement Memorandum of Understanding between Eastern Maine Community College (EMCC) and the University of Maine (UMaine). Current students and graduates who have been enrolled in or earned the identified degree from EMCC and are admissible to the University shall be eligible for credit evaluation under the terms of this agreement.

Admissions requirements: Successful Completion of the Associate in Applied Science in Civil Engineering Technology and a complete application for admission.

Side by Side Course Equivalency Table as of August 1, 2017
Identifies how courses in the Associate in Applied Science in Civil Engineering Technology at EMCC transfer to the Bachelor of Science in Construction Engineering Technology at UMaine when the required grade is earned in each course, minimum C- (C for English Composition).

<table>
<thead>
<tr>
<th>EMCC Program courses by semester</th>
<th>UMaine transfer credit awarded*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester 1</td>
<td></td>
</tr>
<tr>
<td>CET 100 Introduction to Civil Engineering 1</td>
<td>CET 100 Intro to CET 1</td>
</tr>
<tr>
<td>CET 110 Materials 3</td>
<td>CIE 110 Materials 3</td>
</tr>
<tr>
<td>CET 111 Materials Laboratory 1</td>
<td>CIE Materials Lab 1</td>
</tr>
<tr>
<td>General Education Courses:</td>
<td></td>
</tr>
<tr>
<td>ENG 101 College Composition 3</td>
<td>ENG 101 College composition 3 (@)</td>
</tr>
<tr>
<td>MAT 123 College Algebra &amp; Trigonometry 4 OR</td>
<td>MAT 100X Math Elective 4 (@) OR</td>
</tr>
<tr>
<td>MAT 217 Pre-Calculus 3</td>
<td>MAT 122 Pre-Calculus 3 @</td>
</tr>
<tr>
<td>PHY 121 Physics I 3</td>
<td>PHY 107 Technical Physics 1 4 (@)</td>
</tr>
<tr>
<td>PHY 122 Physics Laboratory 1}</td>
<td>Please note: only 12 or 13 credits apply to the BS CET</td>
</tr>
<tr>
<td></td>
<td>Total 15 or 16 credits</td>
</tr>
</tbody>
</table>

EMCC and UMaine
Applied Science in Civil Engineering Technology / Construction Engineering Technology Articulation Agreement
<table>
<thead>
<tr>
<th>Semester 2</th>
<th>credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CET 101 Plane Surveying 3</td>
<td>CET 101 Plane Surveying 3</td>
</tr>
<tr>
<td>CET 121 Civil CADD 3</td>
<td>SVT 121 Auto CAD for Surveyors 3</td>
</tr>
<tr>
<td>CET 124 Construction Estimating 3</td>
<td>CET 228 Introduction to Construction Est. &amp; Plan 3</td>
</tr>
<tr>
<td>General Education Courses Credits:</td>
<td>MAT 122 Pre-Calculus 3 (@) OR</td>
</tr>
<tr>
<td>MAT 217 Pre-Calculus 3 OR</td>
<td>MAT 126 Calculus I 4 @</td>
</tr>
<tr>
<td>MAT 225 Calculus I 4 @</td>
<td>PHY 108 Technical Physics II 4 (@)</td>
</tr>
<tr>
<td>PHY 123 Physics II 3</td>
<td>Total 16 or 17 credits</td>
</tr>
<tr>
<td>PHY 124 Physics II Laboratory 1}</td>
<td>Total 16 or 17 credits</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Summer or 4th semester</th>
<th>credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CET 201 Cooperative Education for Civil Engineering Technology (or CET 221) 3</td>
<td>CET 200X Civil Engineering Technology elective 3 - Counts as a Technical Elective requirement in the UMaine BS CET program.</td>
</tr>
<tr>
<td>Total 3 credits</td>
<td>Total 3 credits</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester 3</th>
<th>credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CET 211 Statics and Strength of Materials 4</td>
<td>CET 413 Statics and Strength of Materials 4</td>
</tr>
<tr>
<td>CET 214 Soils Mechanics 4</td>
<td>CET 326 Soil Mechanics and Foundations 3 and</td>
</tr>
<tr>
<td>General Education Courses Credits:</td>
<td>CET 327 Soil Mechanics and Foundations lab 1</td>
</tr>
<tr>
<td>MAT 225 Calculus I 4 OR</td>
<td>MAT 126 Calculus I 4 (for TME 152) OR</td>
</tr>
<tr>
<td>MAT 226 Calculus II 4</td>
<td>MAT 127 Calculus II 4 (for TME 253)</td>
</tr>
<tr>
<td>SPE 101 Oral Communications 3</td>
<td>CMJ 103 Fundamentals of Public Communications 3</td>
</tr>
<tr>
<td>Total 15 credits</td>
<td>Total 15 credits</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester 4</th>
<th>credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CET 202 Construction Surveying 3</td>
<td>CET 202 Construction Surveying 3</td>
</tr>
<tr>
<td>CET 212 Structural Design 4</td>
<td>CET 414 Structural Design 4</td>
</tr>
<tr>
<td>CET 221 3D Civil CADD 3</td>
<td>CET 200X Civil Engineering Elective 3 - Counts as a Technical Elective requirement for UMaine BS CET</td>
</tr>
<tr>
<td>General Education Courses Credits:</td>
<td>ENG 317 Business and Technical Writing 3 (@)</td>
</tr>
<tr>
<td>ENG 215 Business and Technical Writing 3</td>
<td>PHI 100X Philosophy elective 3 @@</td>
</tr>
<tr>
<td>Humanities or Social Science 100 level or higher 3</td>
<td>Total 16 credits</td>
</tr>
<tr>
<td>PHI 101 Ethics 3 recommended @@</td>
<td></td>
</tr>
<tr>
<td>Total 16 credits</td>
<td></td>
</tr>
</tbody>
</table>

*A minimum grade of C- (or C for English Composition) is required for transfer credit to be awarded. @ satisfies a UMaine General Education Requirement

**Special Notes** Courses taken at EMCC in which the student did not earn the required grade to satisfy either transfer credit or degree requirements would need to be retaken at either UMaine or EMCC in order to earn the grade needed to count toward the degree at UMaine. Once enrolled at UMaine, the

**EMCC and UMaine**

Applied Science in Civil Engineering Technology / Construction Engineering Technology Articulation Agreement
student would need to seek permission from his or her advisor and complete a domestic study away form to alert Student Records of their plans to take any courses at EMCC.

**Suggested course sequence for the last 4 semesters at UMaine as of August 1 2017**

for those who have earned their associate degree in EMCC’s Associate of Applied Science in Civil Engineering Technology - courses may vary for students who transfer before earning their associate’s degree.

<table>
<thead>
<tr>
<th>Semester 5</th>
<th>Semester 6</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUA 201 Principles of Accounting 1 3</td>
<td>CET 221 Construction Methods 3</td>
</tr>
<tr>
<td>CET 356 Construction Project Administration 3</td>
<td>CET 224 Construction Safety 3</td>
</tr>
<tr>
<td>CET 451 Construction Law 3</td>
<td>CET 332 Civil Infrastructure 3</td>
</tr>
<tr>
<td>STS 232 Principles of Statistical Inference 3</td>
<td>CET 360 Preconstruction Services 3</td>
</tr>
<tr>
<td>Human Values and Social Context Elective 1* 3 #</td>
<td>CMJ 257 Business &amp; Professional Communication 3</td>
</tr>
<tr>
<td>Total credits 15</td>
<td>Total credits</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester 7</th>
<th>Semester 8</th>
</tr>
</thead>
<tbody>
<tr>
<td>CET 458 Management of Construction 3</td>
<td>MET 484 Engineering Economics 3</td>
</tr>
<tr>
<td>CET 462 Construction Planning &amp; Scheduling 3</td>
<td>Human Values and Social Context Elective 2* 3 ( @)</td>
</tr>
<tr>
<td>CET 412 Sust Pop &amp; Environmental Design &amp; Construction 3 @</td>
<td>TME 253 Applied Calculus for Engineering Technology 4 #</td>
</tr>
<tr>
<td>ECO 120 or ECO 121 Principles of Micro or Macroeconomics 3 ( @)</td>
<td>Construction Elective 3</td>
</tr>
<tr>
<td>Construction Elective * 3</td>
<td>Total credits</td>
</tr>
<tr>
<td>15</td>
<td>13</td>
</tr>
</tbody>
</table>

*General Education Requirement Electives do not have to be taken in the order shown. One of the Human Values/Social Context electives, PHI 101 taken at EMCC in semester 4, must also satisfy the ethics requirement of the General Education Requirements.

# the semester 5 Human Values and Social context elective 1 course should be moved to Semester 8 for those students who complete MAT 227 at EMCC. Successful completion of MAT 227 at EMCC eliminates the need for TME 253 in semester 8.

@ denotes a course that meets a General Education Requirement.

**Degree Requirement Notes:**

Total minimum degree credit hours required for the Bachelor of Science in Construction Engineering Technology are **120 credits** consisting of specific degree requirements, specific elective requirements and general education requirements.

**Students should see advisor for approval of ALL electives!** Lists of approved courses that meet the General Education requirements and Technical Electives are available in the School of Engineering Technology Office in 119 Boardman Hall at UMaine.
Transfer students will be accorded the same standards and criteria for admission to a major degree sequence as UMaine students. All applicants accepted to UMaine’s baccalaureate programs must fulfill the graduation requirements as identified in UMaine’s academic catalog. For up to date degree information please check UMaine’s online catalog at http://catalog.umaine.edu/. The most recent transfer credit equivalency information is available through the online transfer equivalency listing located at mainstreet.umaine.edu. See appendix A for complete degree requirements.

Contacts/designee at each campus for more information:

**Eastern Maine Community College**
- Name: Elizabeth Russell
- Title: Vice President of Academic Affairs
- Email: erussell@emcc.edu
- Phone: 207.974.4684

**University of Maine:**
- Name: Jeff St. John
- Title: Senior Associate Provost for Academic Affairs
- Email: jeffrey.stjohn@maine.edu
- Phone: 207.581.1591

**University of Maine:**
- Name: Scott Dunning
- Title: Director of the School of Engineering Technology
- Email: dunning@maine.edu
- Phone: 207.581.2349

---

**Articulation Implementation and Agreement Review**

The Chief Academic Officer designee of the collaborating institutions shall be responsible for implementing this agreement, for identifying and incorporating any changes into subsequent agreements, and for conducting a periodic review of this agreement.
Signatures to this Agreement

This agreement becomes effective on August 1, 2017 and will be reviewed in August 2020 for renewal discussion.

Eastern Maine Community College:

Elizabeth Russell
Vice President of Academic Affairs

Signature date

University of Maine:

Jeffrey E. Hecker
Executive Vice President for Academic Affairs and Provost

Signature date

Jeffrey E. St John
Senior Associate Provost for Academic Affairs

Signature date

Scott C. Dunning
Director, School of Engineering Technology

Signature date

EMCC and UMaine
Applied Science in Civil Engineering Technology / Construction Engineering Technology Articulation Agreement
Appendix A

University of Maine

Bachelor of Science in Construction Engineering Technology (BS CET) Degree Requirement Plan as of Date of Agreement

<table>
<thead>
<tr>
<th>UMaine BSCET Course</th>
<th>EMCC ASCET Course Equivalent</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SEMESTER I (Fall)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CET100 Introduction to Construction Management</td>
<td>1</td>
<td>CET 100 Intro. to CET</td>
</tr>
<tr>
<td>SVT121 AutoCad for Surveyors I</td>
<td>3</td>
<td>SVT121 Civil CADD</td>
</tr>
<tr>
<td>CMJ103 Fundamentals of Public Communication</td>
<td>3</td>
<td>CMJ103 Oral Communications</td>
</tr>
<tr>
<td>PHY107 Technical Physics I</td>
<td>4</td>
<td>PHY121 Physics I &amp; PHY122, Physics Lab</td>
</tr>
<tr>
<td>MAT122 Pre-calculus</td>
<td>4</td>
<td>MAT217 Pre-Calculus</td>
</tr>
<tr>
<td>Total</td>
<td>15</td>
<td>14</td>
</tr>
<tr>
<td><strong>SEMESTER II (Spring)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CET101 Plane Surveying</td>
<td>3</td>
<td>CET101 Plane Surveying</td>
</tr>
<tr>
<td>ENG101 College Composition</td>
<td>3</td>
<td>ENG101 College Composition</td>
</tr>
<tr>
<td>PHY108 Technical Physics II</td>
<td>4</td>
<td>PHY123 Physics II, PHY124, Physics II Lab</td>
</tr>
<tr>
<td>TME152: Introductory Calculus for Eng Tech</td>
<td>3</td>
<td>MAT 225 Calculus I (transfers as MAT 126 Calculus I)</td>
</tr>
<tr>
<td>Total</td>
<td>13</td>
<td>14</td>
</tr>
<tr>
<td><strong>SEMESTER III (Fall)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CET202 Construction Surveying</td>
<td>3</td>
<td>CET202 Construction Surveying</td>
</tr>
<tr>
<td>CET228 Intro to Construction Estimating and Planning</td>
<td>3</td>
<td>CET124 Construction Estimating</td>
</tr>
<tr>
<td>CIE110 Materials</td>
<td>3</td>
<td>CIE110 Materials</td>
</tr>
<tr>
<td>CIE111 Materials Laboratory</td>
<td>1</td>
<td>CIE111 Materials Laboratory</td>
</tr>
<tr>
<td>TME253 Applied Calculus for Engineering Technology</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

EMCC and UMaine

Applied Science in Civil Engineering Technology / Construction Engineering Technology Articulation Agreement

Page 6
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CET221</td>
<td>Construction Methods</td>
<td>3</td>
</tr>
<tr>
<td>CET224</td>
<td>Construction Safety</td>
<td>3</td>
</tr>
<tr>
<td>STS 232</td>
<td>Principles of Statistical Inference</td>
<td>3</td>
</tr>
<tr>
<td>ECO120 or 121</td>
<td>Principles of Micro or Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>HVSC Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

**SEMESTER IV (Spring)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CET221</td>
<td>Construction Methods</td>
<td>3</td>
</tr>
<tr>
<td>CET224</td>
<td>Construction Safety</td>
<td>3</td>
</tr>
<tr>
<td>STS 232</td>
<td>Principles of Statistical Inference</td>
<td>3</td>
</tr>
<tr>
<td>ECO120 or 121</td>
<td>Principles of Micro or Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>HVSC Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

**SEMESTER V (Fall)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BU201</td>
<td>Principles of Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>CET226</td>
<td>Soil Mechanics and Foundations</td>
<td>3</td>
</tr>
<tr>
<td>CET227</td>
<td>Soil Mechanics and Foundations Lab</td>
<td>1</td>
</tr>
<tr>
<td>CET356</td>
<td>Construction Project Administration</td>
<td>3</td>
</tr>
<tr>
<td>CET451</td>
<td>Construction Law</td>
<td>3</td>
</tr>
<tr>
<td>ENG317</td>
<td>Business and Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

**SEMESTER VI (Spring)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CET332</td>
<td>Civil Infrastructure</td>
<td>3</td>
</tr>
<tr>
<td>CET350</td>
<td>Preconstruction Services</td>
<td>3</td>
</tr>
<tr>
<td>CET413</td>
<td>Statics and Strength of Materials</td>
<td>4</td>
</tr>
<tr>
<td>CMJ257</td>
<td>Business &amp; Professional Communication</td>
<td>3</td>
</tr>
<tr>
<td>Technical Elective</td>
<td>CET 200X CET elective (CET201 Co-op for CET at EMCC)</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

**SEMESTER VII (Fall)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CET458</td>
<td>Management of Construction</td>
<td>3</td>
</tr>
<tr>
<td>CET462</td>
<td>Construction Planning &amp; Scheduling</td>
<td>3</td>
</tr>
<tr>
<td>CET412</td>
<td>Sust Pop &amp; Envir Design &amp; Constr</td>
<td>3</td>
</tr>
<tr>
<td>HVSC Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Construction Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

**SEMESTER VIII (Spring)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>10</strong></td>
</tr>
</tbody>
</table>

---

**EMCC and UMaine**

Applied Science in Civil Engineering Technology / Construction Engineering Technology Articulation Agreement
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CET414 Structural Design</td>
<td>4</td>
<td>CET212 Structural Design</td>
<td>4</td>
</tr>
<tr>
<td>MET484 Engineering Economics</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HVSC Elective</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Construction Elective</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>16</td>
<td>CET 200X CET Elective (CET 221 3D CAD at EMCC)</td>
<td>3</td>
</tr>
<tr>
<td>Other</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethics Gen Ed Requirement</td>
<td></td>
<td>PHI 101 Ethics</td>
<td>3</td>
</tr>
<tr>
<td>Overall Degree total</td>
<td>120</td>
<td>MAT 123 College Algebra and Trigonometry (does not count as part of the UM BS CET degree requirements but does transfer to UMaine)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Overall total transfer credits from AAS CET</td>
<td>66</td>
</tr>
</tbody>
</table>

Graduation Requirement Notes:

Total minimum degree credit hours required for the Bachelor of Science in Construction Engineering Technology are **120 credits** consisting of specific degree requirements, specific elective requirements and general education requirements.

**Students should see advisor for approval of ALL electives!** Lists of approved courses that meet the General Education requirements and Technical Electives are available in the School of Engineering Technology Office in 119 Boardman Hall at UMaine.