CET 1213 Introduction to Construction
Description: Overview of the entire construction industry with emphasis on construction materials, methods and systems. Both building and heavy highway construction drawings and their interpretation. Previously offered as CMT 1213 and CMT 1214.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Undergraduate
Schedule types: Lecture
Department/School: Engineering Technology

CET 2203 Construction Drawings (for Non-Majors)
Description: Principles of graphic communication are applied to reading and drawing construction plans, with emphasis to fire protection systems. Does not meet CMT degree requirements. (Online course for non-CMT majors). Previously offered as CMT 2203.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Undergraduate
Schedule types: Lecture
Department/School: Engineering Technology

CET 2253 Printreading & BIM
Prerequisites: Grade of "C" or better in MATH 1513 or ALEKS score greater or equal to 60 or permission of instructor.
Description: Principles of 2D and 3D graphic communication are applied to reading and drawing construction plans. Techniques for measuring items of construction work from plans and specifications are also covered. Previously offered as CMT 2253.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Undergraduate
Schedule types: Lecture
Department/School: Engineering Technology

CET 2263 Estimating I
Prerequisites: Grade of "C" or better in (CMT 1213 and CET 1213) and (CMT 2253 or CET 2253), or permission of instructor.
Description: Quantity take-off with emphasis on excavation, formwork and concrete, masonry, rough carpentry and miscellaneous specialty items. Previously offered as CMT 2263.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Undergraduate
Schedule types: Lecture
Department/School: Engineering Technology

CET 2343 Concrete Technology
Prerequisites: Grade of "C" or better in (CET 1213 and CMT 1213) and (CMT 2353 or CET 2253) or permission of department.
Credit hours: 3
Contact hours: Lecture: 2 Lab: 2 Contact: 4
Levels: Undergraduate
Schedule types: Lab, Lecture, Combined lecture and lab
Department/School: Engineering Technology

CET 3163 Field Engineering Applications
Prerequisites: CET 2263.
Description: Construction sequencing and methods and basic timber structural design.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Undergraduate
Schedule types: Lecture
Department/School: Engineering Technology

CET 3213 Soft Skills for Effective Interpersonal Communication (S)
Description: A study of personal one-on-one communication skills to improve effective intrapersonal communication. The course also relates intrapersonal skills to successful teamwork and teambuilding and becoming and presenting the best version of yourself.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Undergraduate
Schedule types: Lecture
Department/School: Engineering Technology

General Education and other Course Attributes: Social & Behavioral Sciences

CET 3273 Scheduling Construction Projects
Prerequisites: Grade of "C" or better in CMT 2263, or CET 2263 or permission of department.
Description: Scheduling basics, including bar charts and critical-path methods; manual and computer techniques using current software; emphasis on using schedules for construction project management. Previously offered as CMT 3273.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Undergraduate
Schedule types: Lecture
Department/School: Engineering Technology

CET 3322 Construction Practicum I
Prerequisites: Grade of "C" or better in (CMT 1213 and CET 1213) and (CMT 2253 or CET 2253), or permission of department.
Description: Supervised field experience in construction; 400 hours minimum documented time required. Previously offered as CMT 3331 and CMT 3322.
Credit hours: 2
Contact hours: Lecture: 2 Contact: 2
Levels: Undergraduate
Schedule types: Lecture
Department/School: Engineering Technology
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
<th>Description</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>CET 3323</td>
<td>Theory of Built Structures</td>
<td>Grade of &quot;C&quot; or better in (MATH 2123 or MATH 2144) and (GENT 2323 or ENSC 2113) or permission of the department.</td>
<td>The study of equilibrium of structural systems and stresses and strains that occur in structural members of the built environment. Previously offered as CMT 3323.</td>
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<tr>
<td>CET 3332</td>
<td>Construction Practicum II</td>
<td>Grade of &quot;C&quot; or better in (CMT 2263 or CET 2263), (CMT 3322 or CET 3322) and CIVE 3614 or permission of department.</td>
<td>Supervised temporary, full-time employment in construction, emphasizing field and office engineering and a variety of project management functions; 400 hours minimum documented time required. Previously offered as CMT 3332 and CMT 3333.</td>
<td>2</td>
</tr>
<tr>
<td>CET 3364</td>
<td>Structures I</td>
<td>Grade of &quot;C&quot; or better in (CMT 2343, CET 2343, or CMT 3351) and (CMT 3323, CET 3323 or GENT 3323 or ENSC 2143) and (MATH 2133 or MATH 2153) and (PHYS 1214 or PHYS 2114) and (CMT 3322 or CET 3322) and (CMT 3273 or CET 3273).</td>
<td>Methods of structural analysis applicable to construction; design of timber structures and forms for concrete structures. Previously offered as CMT 3363 and CMT 3364.</td>
<td>4</td>
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<tr>
<td>CET 3432</td>
<td>Principles of Site Development</td>
<td>Grade of &quot;C&quot; or better in (CMT 2343 or CMT 2352), CIVE 3614 and CMT 3323, CMT 3323 or GENT 3323 or ENSC 2143.</td>
<td>Site layout, vertical and horizontal control, surveying instrument adjustments, site investigations, excavations, site drainage and geotechnical considerations. Previously offered as CET 3433, CMT 3433 and CMT 2333.</td>
<td>2</td>
</tr>
<tr>
<td>CET 3443</td>
<td>Environmental Building Systems (Non-Majors)</td>
<td>Grade of &quot;C&quot; or better in ENGR 1322 or CMT 2253 or ARCH 3263 and grade of &quot;C&quot; or better in (PHYS 1114 or PHYS 2014), or permission of department.</td>
<td>An introductory level knowledge of plumbing, heating, air-conditioning, electrical and lighting systems as applied to construction and construction-related projects. May not be used for degree credit with CET 3463.</td>
<td>3</td>
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<tr>
<td>CET 3463</td>
<td>Environmental Building Systems</td>
<td>Grade of &quot;C&quot; or better in CET 3463 or CMT 2253 and (PHYS 1214 or PHYS 2114) or permission of department.</td>
<td>Plumbing, heating, air-conditioning, electrical and lighting systems as applied to residences and commercial buildings. Previously offered as CMT 3463.</td>
<td>4</td>
</tr>
<tr>
<td>CET 3554</td>
<td>Structures II</td>
<td>Grade of &quot;C&quot; or better in (CET 3564 or CMT 3364).</td>
<td>Analysis and design of elements in steel and reinforced concrete structures; review of shop drawings for both types of construction. Previously offered as CMT 3553 and CMT 3554.</td>
<td>4</td>
</tr>
<tr>
<td>CET 4050</td>
<td>Advanced Construction Management Problems</td>
<td>Grade of &quot;C&quot; or better in ENGR 1322 or CMT 2253 or ARCH 3263 and grade of &quot;C&quot; or better in (PHYS 1114 or PHYS 2014), or permission of department.</td>
<td>Special problems in construction management. Previously offered as CET 4050. Offered for variable credit, 1-6 credit hours, maximum of 6 credit hours.</td>
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<tr>
<td>CET 4133</td>
<td>CAD and BIM for Construction Managers</td>
<td>Grade of &quot;C&quot; or better in (CMT 1213 or CET 1213) and (CMT 2253 or CET 2253).</td>
<td>Interpretation and production of construction drawings using computer aided drafting. Theory and use of Building Information Modeling software builds upon computer aided drafting skills. Previously offered as CMT 3633.</td>
<td>3</td>
</tr>
</tbody>
</table>

Department/School: Engineering Technology
CET 4263 Estimating II
Prerequisites: Grade of "C" or better in EET 1003, (CMT 2263 or CET 2263) and concurrent enrollment or grade of "C" or better in GENT 2323 or ENSC 2113; or permission of department.
Description: Extensive use of actual contract documents for quantity take-off, pricing and assembling the bid for several projects. Use of computers in estimating. Previously offered as CMT 4263.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Undergraduate
Schedule types: Lecture
Department/School: Engineering Technology

CET 4273 Technology in Construction
Prerequisites: Grade of "C" or better in (CMT 3273 or CET 3273) and (CMT 4263 or CET 4263).
Description: Applications of various technologies including software for construction. Previously offered as CMT 4273.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Undergraduate
Schedule types: Lecture
Department/School: Engineering Technology

CET 4283 Business Practices for Construction
Prerequisites: Grade of "C" or better in ACCT 2003, ACCT 2103, (CMT 3273 or CET 3273) and (CMT 4563 or CET 4563) or permission of department.
Description: Principles of management applied to construction contracting; organizing office and field staff; bonding, liens, financial management practices; introduction to the construction manager concept; schedule of values; construction billings. Previously offered as CMT 4283.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Undergraduate
Schedule types: Lecture
Department/School: Engineering Technology

CET 4293 Construction Manager Concepts
Prerequisites: Grade of "C" or better in (CMT 3332 or CET 3332) and (CMT 4283 or CET 4283) and (CMT 3364 or CET 3364) and ENGL 3323 or permission of department.
Description: Capstone course utilizing skills and knowledge of estimating, scheduling, bidding, construction management, CAD, TQM, partnering and safety; includes topics in leadership, motivation and the use of current project management software. Previously offered as CMT 4293.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Undergraduate
Schedule types: Lecture
Department/School: Engineering Technology

CET 4333 Equipment Management for Constructors
Prerequisites: Grade of "C" or higher in (CMT 2263 or CET 2263), (CMT 2343 or CET 2343) and (ACCT 2003 or ACCT 2103) or permission of department.
Description: Selection and use of equipment, estimating equipment costs, estimating equipment production rates for all types of equipment used in building construction and heavy/highway construction. Previously offered as CMT 4333.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Undergraduate
Schedule types: Lecture
Department/School: Engineering Technology

CET 4443 Construction Safety and Loss Control
Prerequisites: Grade of "C" or better in (CMT 2253 or CET 2253) and (CMT 4263 or CET 4263) or permission of department.
Description: A detailed study of OSHA Part 1926 - Construction Safety and Health Compliance and related safety topics including topics related to the OSHA 30-hour training program; concepts and methods of loss control. Previously offered as CMT 4443.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Undergraduate
Schedule types: Lecture
Department/School: Engineering Technology

CET 4533 Heavy Civil Construction and Estimating
Prerequisites: Grade of "C" or better in (CMT 2263 or CET 2263) and (CMT 2343 or CET 2343) or permission of department.
Description: Theory and application of contractor estimating and bidding procedures used in heavy and highway construction projects. Previously offered as CMT 4533.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Undergraduate
Schedule types: Lecture
Department/School: Engineering Technology

CET 4553 Structural Steel Design & Connections
Prerequisites: CET 3613 and ENSC 2143.
Description: Analysis and design of steel beams and columns, bolted and welded connections, and rigging applications. May not be used for degree credit with CET 3554.
Credit hours: 3
Contact hours: Lecture: 2 Lab: 2 Contact: 4
Levels: Undergraduate
Schedule types: Lab, Lecture, Combined lecture and lab
Department/School: Engineering Technology

CET 4563 Construction Law and Insurance
Prerequisites: A grade of "C" or better in (CMT 2263 or CET 2263) and SPCH 2713 and acceptance to the CMT Upper Division or permission of the department.
Description: Legal and insurance problems as they pertain to the construction industry. Previously offered as CMT 4563.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Undergraduate
Schedule types: Lecture
Department/School: Engineering Technology
CET 4663 Concrete Design & Formwork
Prerequisites: CET 3613 and ENSC 2143.
Description: Analysis and design of cast in place concrete with concrete formwork applications. May not be used for degree credit with CET 3364 and CET 3554.
Credit hours: 3
Contact hours: Lecture: 2 Lab: 2 Contact: 4
Levels: Undergraduate
Schedule types: Lab, Lecture, Combined lecture and lab
Department/School: Engineering Technology