Major: Civil Engineering

Degree: Bachelor of Science

Effective: Fall 2020

Name: ________________________________________________________

Central Connecticut State University ID#: ______________________

E-mail: ________________________________

1615 Stanley Street, New Britain, CT 06050

Entry: Fall ___ Spring ___ Summer ___ Year _______ Transfer Credits_____

Advisor:_________________________________________

Rev: 04/03/20

General Education Study Areas (26 credits):

I. Arts and Humanities (9 credits)
- Literature (200 level or higher) ³
- PHIL or Fine Arts ³
- Literature or PHIL or Fine Arts ³

II. Social Sciences (6 credits)
- History ³
- ECON - ET 399 Engineering Economy (Preferred) ³

III. Behavioral Sciences (3 credits)
- Anthropology or Psychology or Sociology ³

IV. Natural Sciences (8 credits)
- PHYS 125 - University Physics I
- PHYS 126 - University Physics II

General Education Skill Areas (16 to 23 credits):

I. Communication Skills (6 credits)
- WRT 110 - Intro. to College Writing ¹
- ENGR 290 - Engr Tech Writing & Presentation

II. Mathematics (6 or 8 credits)
- MATH 152 - Calculus I ¹
- MATH 221 - Calculus II

III.a Foreign Language Proficiency (0-6 credits)
- Required for students who have not: completed 3 years in one language at HS, or passed exam, or demonstrated proficiency

III.b International Requirement (6 credits) ³

IV. University Requirement (2-3 credits)
- PE 144 - Fitness/Wellness (or ENGR 150 for Transfers) 2 or 3

Total Credits = 128 to 134

Additional Requirements (22 credits):
- CHEM 161 General Chemistry
- CHEM 162 General Chemistry Lab.
- MATH 226 Linear Algebra and Prob. for Engr.
- MATH 355 Intro. to Differential Equations w/ Applications
- BIO/BMS/GSCI Additional Science Elective w/Lab ⁴

Recommended CE Dir. Tech Elect.: CE 357(3), CE 402(1), CE 458(3), CE 472(3), CE 473(3), CE 474(3), CE 477(3), CE 490(2), CE 491(1), and CE 495(3)

Admission to the Civil Engineering Program requires eligibility to enroll in, or completion of, MATH 152 (Calculus I) and WRT 110 (Intro. to College Writing)

Minimum grade of C- is required in all major requirements, all additional requirements, all Study Area IV and Econ, and all Skill Area I and II.

¹ Placement examination may be required before enrolling in English and Mathematics, ² A "Civil 3D" required course.
³ Courses with designator [I] in the course description fulfill the Gen. Education requirement and the International component.
⁴ BIO 121, or BMS 102 & 103, or GSCI 121 & 125; the Additional Science Elective must include a laboratory.
⁵ The total of the CE Dir. Tech. Electives must be 6 or more credits.
## Civil Engineering

**Typical Course Schedule**  
*(FY Track)*  

*(For students entering with <15 transfer credits who are qualified to take MATH 152 and WRT 110 in the first/fall semester)*

### Effective: Fall 2020

**ENGINEERING DEPARTMENT**

Name: ___________________________________________  
ID#: ___________________  E-mail: ___________________

**Central Connecticut State University**  
1615 Stanley Street, New Britain, CT 06050  
Tel: (860) 832-1815, Fax: (860) 832-1811  
Advisor: ______________________________________  
Rev: 04/03/20

### First Year

<table>
<thead>
<tr>
<th>Fall (16 credits)</th>
<th>Spring (16 credits)</th>
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<tbody>
<tr>
<td>ENGR 150 Introduction to Engineering</td>
<td>MATH 221 Calculus II</td>
</tr>
<tr>
<td>CHEM 161/2 General Chemistry &amp; Gen. Chem. Lab.</td>
<td>PHYS 125 University Physics I <em>(Calculus Based)</em></td>
</tr>
<tr>
<td>MATH 152 Calculus I</td>
<td>ENGR 240 Computational Methods for Engr. w/Lab</td>
</tr>
<tr>
<td>WRT 110 Intro. to College Writing</td>
<td>CE 222 CAD Applications in CE w/Lab <em>(Civil 3D)</em></td>
</tr>
<tr>
<td>PE 144 Fitness/Wellness <em>(ENGR 150 for Transfers)</em></td>
<td>SA-I Arts, Phil &amp; Ethics - Gen. Ed. #1</td>
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### Second Year

<table>
<thead>
<tr>
<th>Fall (17 credits)</th>
<th>Spring (17 credits)</th>
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<tbody>
<tr>
<td>MATH 226 Linear Algebra and Prob. for Engr.</td>
<td>MATH 355 Intro. to Differential Equations w/ Applications</td>
</tr>
<tr>
<td>PHYS 126 University Physics II <em>(Calculus Based)</em></td>
<td>BIO/BMS/GSCI Additional Science Elective w/Lab</td>
</tr>
<tr>
<td>ENGR 251 Engr. Mechanics I - Statics</td>
<td>ENGR 252 Engr. Mechanics II - Dynamics</td>
</tr>
<tr>
<td>CE 253 Intro. to Engr. Surveying w/Lab</td>
<td>ENGR 357 Mechanics of Materials</td>
</tr>
<tr>
<td>SA-I Lit Literature <em>(200 level)</em> - Gen. Ed. #2</td>
<td>CE 376 Environmental Engineering</td>
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### Third Year

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<thead>
<tr>
<th>Fall (16 credits)</th>
<th>Spring (18 credits)</th>
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<tbody>
<tr>
<td>ME 354 Fluid Mechanics w/Lab</td>
<td>CE 375 Hydraulic Engineering</td>
</tr>
<tr>
<td>CE 301 CE Fundamental Computations</td>
<td>CE 451 Soil Mechanics w/Lab.</td>
</tr>
<tr>
<td>CE 356 Civil Engr. Materials w/Lab</td>
<td>CE 460 Highway Design and Construction</td>
</tr>
<tr>
<td>CE 360 Traffic Engineering w/Lab</td>
<td>CE 471 Reinforced Concrete Structures</td>
</tr>
<tr>
<td>CE 397 Structural Analysis I</td>
<td>ET 399 Engineering Economy</td>
</tr>
<tr>
<td>ENGR 290 Engr Tech Writing &amp; Presentation</td>
<td>SA-II Hist History - Gen Ed. #3</td>
</tr>
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### Fourth Year

<table>
<thead>
<tr>
<th>Fall (14 credits)</th>
<th>Spring (14 credits)</th>
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<tbody>
<tr>
<td>CE 452 Foundation Engineering</td>
<td>CE 407 Structural Analysis II</td>
</tr>
<tr>
<td>CE 470 Structural Steel Design</td>
<td>CE 498 Senior Design Project <em>(Capstone)</em></td>
</tr>
<tr>
<td>CE 475 Hydrology and Storm Drainage w/Lab</td>
<td>CE DTE CE Directed Technical Elective</td>
</tr>
<tr>
<td>CE 497 Prof. Practice &amp; Sr. Project Research</td>
<td>SA-I Fine Arts - Gen. Ed. #4</td>
</tr>
<tr>
<td>CE DTE CE Directed Technical Elective</td>
<td>SA-III Behavioral Sci. - Gen Ed. #5</td>
</tr>
</tbody>
</table>

**Total Program Credits** = 128

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2. Additional General Education (SA III.a) Foreign Language (6 credits) is required for students who have not completed 3 years in one language at HS level, or not passed an exam measuring foreign language equivalent, or not demonstrated native proficiency.

3. Courses with designator [I] in the course description fulfill the Gen. Education requirement and the International component (6 credits total).

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BIO 121, or BMS 102 & 103, or GSCI 121 & 125; the Additional Science Elective must include a laboratory.