### Construction Engineering
### Building Emphasis
### 2017-2018 Catalog

**126 Total Credits**

#### First Year

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>R</strong> Engr 101 (Engr Orientation)</td>
<td>2 CE 170 (Engineering Graphics)</td>
</tr>
<tr>
<td>3 CE 160 (Engr Problems)</td>
<td>4 Math 166 (Calculus II)</td>
</tr>
<tr>
<td>4 Math 165 (Calculus I)</td>
<td>5 Phys 221 (Classical Physics I)</td>
</tr>
<tr>
<td>4 Chem 167 (General Chemistry)</td>
<td>3 Engl 250 (WOVE Composition)</td>
</tr>
<tr>
<td>3 Engl 150 (Critical Thinking &amp; Comm)</td>
<td>1 Lib 160 (Library)</td>
</tr>
<tr>
<td>1 ConE 121 (Learning Community)</td>
<td>1 ConE 122 (Learning Community)</td>
</tr>
</tbody>
</table>

**15 Total Credits**

#### Sophomore Year

<table>
<thead>
<tr>
<th>Semester 3</th>
<th>Semester 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 ConE 222 (Contractor Org &amp; Mgmt)</td>
<td>3 ConE 241 (Constr Mat &amp; Methods)</td>
</tr>
<tr>
<td>3 CE 111 (Fund of Surveying I)</td>
<td>1 ConE 251 (M/E Materials &amp; Methods)</td>
</tr>
<tr>
<td>3 Economics Elective (Econ 101 or 102)</td>
<td>3 Math 266 (Differential Equations)</td>
</tr>
<tr>
<td>3 Math or Stat Elective</td>
<td>3 EM 324 (Mechanics of Materials)</td>
</tr>
<tr>
<td>3 EM 274 (Statics)</td>
<td>5 Phys 222 (Classical Physics II)</td>
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</tbody>
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**15 Total Credits**

#### Junior Year

<table>
<thead>
<tr>
<th>Semester 5</th>
<th>Semester 6</th>
</tr>
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<tbody>
<tr>
<td>3 ConE 352 (Mechanical Systems in Bldgs)</td>
<td>3 Law Elective (ConE 380 or Acct 215)</td>
</tr>
<tr>
<td>3 ConE 353 (Electrical Systems in Bldgs)</td>
<td>3 ConE 322 (Constr Equip/Hvy Methods)</td>
</tr>
<tr>
<td>3 EM 378 (Mechanics of Fluids)</td>
<td>3 ConE 340 (Concrete/Steel Construction)</td>
</tr>
<tr>
<td>3 Stat 305 or 231 (Engineering Statistics)</td>
<td>3 CE 360 (Soils Engineering)</td>
</tr>
<tr>
<td>3 IE 305 (Engineering Economics)</td>
<td>3 CE 332 (Structural Analysis I)</td>
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<tr>
<td>3 SSH Elective (Psych 101/230/280 or Soc 134)</td>
<td>1 EM 327 (Mechanics of Materials Lab)</td>
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</table>

**18 Total Credits**

#### Senior Year

<table>
<thead>
<tr>
<th>Semester 7</th>
<th>Semester 8</th>
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<tbody>
<tr>
<td>3 ConE 422 (Constr Cost &amp; Estimating)</td>
<td>3 ConE 487 (Constr Engr Design I)</td>
</tr>
<tr>
<td>3 ConE 441 (Constr Plng, Sch &amp; Cont)</td>
<td>3 ConE 488 (Constr Engr Design II)</td>
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<td>1 CE 383 (Dsgn of Portland Cemnt Concr)</td>
<td>3 CE 334 (Reinf Concrete Design I)</td>
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<tr>
<td>3 CE 333 (Struct Steel Dsgn I)</td>
<td>3 Business Comm Elective (Engl 302 or 309 or 314)</td>
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<td>3 SSH Elective (Intl Perspective)</td>
<td>3 SSH Elective (US Diversity)</td>
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<tr>
<td>3 Engineering Topics Elective</td>
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**16 Total Credits**

**Shading indicates Basic Program courses**
# Construction Engineering
## Electrical Emphasis
### 2017-2018 Catalog
### 124 Total Credits

## First Year

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>R</strong> Engr 101 (Engr Orientation)</td>
<td>2 CE 170 (Engineering Graphics)</td>
</tr>
<tr>
<td>3 CE160 (Engr Problems)</td>
<td>4 Math 166 (Calculus II)</td>
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<tr>
<td>4 Math 165 (Calculus I)</td>
<td>5 Phys 221 (Classical Physics I)</td>
</tr>
<tr>
<td>4 Chem 167 (General Chemistry)</td>
<td>3 Engl 250 (WOVE Composition)</td>
</tr>
<tr>
<td>3 Engl 150 (Critical Thinking &amp; Comm)</td>
<td>1 Lib 160 (Library)</td>
</tr>
<tr>
<td>1 ConE 121 (Learning Community)</td>
<td>1 ConE 122 (Learning Community)</td>
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**15 Total Credits**

## Sophomore Year

<table>
<thead>
<tr>
<th>Semester 3</th>
<th>Semester 4</th>
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<tbody>
<tr>
<td>3 ConE 222 (Contractor Org &amp; Mgmt)</td>
<td>3 ConE 241 ( Constr Matrls &amp; Methods)</td>
</tr>
<tr>
<td>3 CE 111 ( Fund of Surveying I)</td>
<td>1 ConE 251 ( M/E Materials &amp; Methods)</td>
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<tr>
<td>3 Math or Stat Elective</td>
<td>4 Math 267 ( Differential Equations)</td>
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<tr>
<td>5 Phys 222 (Classical Physics II)</td>
<td>3 EM 274 ( Statics)</td>
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<tr>
<td>3 SSH Elective (Psych 101/230/280 or Soc 134)</td>
<td>4 EE 201 (Electrical Circuits)</td>
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**17 Total Credits**

## Junior Year

<table>
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<tr>
<th>Semester 5</th>
<th>Semester 6</th>
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<tbody>
<tr>
<td>3 Stat 305 or 231 (Statistics for Engr)</td>
<td>3 EE 303 ( Energy Sys/Power Electronics)</td>
</tr>
<tr>
<td>3 EM 324 (Mechanics of Materials)</td>
<td>3 Law Elective (ConE 380 or Acct 215)</td>
</tr>
<tr>
<td>4 EE 230 (Electronic Circuits/Systems)</td>
<td>3 ConE 352 (Mechanical Systems in Bldgs)</td>
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<tr>
<td>3 EM 378 (Mechanics of Fluids)</td>
<td>3 ConE 353 (Electrical Systems in Bldgs)</td>
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<tr>
<td>3 IE 305 (Engineering Economics)</td>
<td>3 Economics Elective (Econ 101 or 102)</td>
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**16 Total Credits**

## Senior Year

<table>
<thead>
<tr>
<th>Semester 7</th>
<th>Semester 8</th>
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<tbody>
<tr>
<td>3 ConE 422 (Construction Cost Estimating)</td>
<td>3 ConE 487 (Constr Engr Design I)</td>
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<tr>
<td>3 ConE 441 (Constr Plan/Sched/Control)</td>
<td>3 ConE 488 (Constr Engr Design II)</td>
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<tr>
<td>3 EE 456 (Power System Analysis I)</td>
<td>3 EE 457 (Power System Analysis II)</td>
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<td>3 CE 332 (Structural Analysis I)</td>
<td>3 Business Comm Elective (Engl 302 or 309 or 314)</td>
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<tr>
<td>3 SSH Elective (Intl Perspective)</td>
<td>3 SSH Elective (US Diversity)</td>
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**15 Total Credits**

Shading indicates Basic Program courses
# Construction Engineering
## Heavy/Highway Emphasis
### 2017-2018 Catalog
### 125 Total Credits

**First Year**

<table>
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<tr>
<th>Semester 1</th>
<th>Semester 2</th>
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<tbody>
<tr>
<td>R Engr 101 (Engr Orientation)</td>
<td>2 CE 170 (Engineering Graphics)</td>
</tr>
<tr>
<td>3 CE 160 (Engr Problems)</td>
<td>4 Math 166 (Calculus II)</td>
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<tr>
<td>4 Math 165 (Calculus I)</td>
<td>5 Phys 221 (Classical Physics I)</td>
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<tr>
<td>4 Chem 167 (General Chemistry)</td>
<td>3 Engl 250 (WOVE Composition)</td>
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<tr>
<td>3 Engl 150 (Critical Thinking &amp; Comm)</td>
<td>1 Lib 160 (Library)</td>
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<tr>
<td>1 ConE 121 (Learning Community)</td>
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**Sophomore Year**

<table>
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<tr>
<th>Semester 3</th>
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<tr>
<td>3 ConE 222 (Contractor Org &amp; Mgmt)</td>
<td>3 ConE 241 (Constr Mat &amp; Methods)</td>
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<tr>
<td>3 CE 111 (Fund of Surveying I)</td>
<td>1 ConE 251 (M/E Materials &amp; Methods)</td>
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<tr>
<td>3 Math or Stat Elective</td>
<td>3 Math 266 (Differential Equations)</td>
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<tr>
<td>5 Phys 222 (Classical Physics II)</td>
<td>3 EM 324 (Mechanics of Materials)</td>
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<tr>
<td>3 EM 274 (Statics)</td>
<td>3 Economics Elective (Econ 101 or 102)</td>
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**Junior Year**

<table>
<thead>
<tr>
<th>Semester 5</th>
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<tbody>
<tr>
<td>3 ConE 322 (Constr Equip/Heavy Methods)</td>
<td>3 ConE 340 (Concr &amp; Steel Constr)</td>
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<tr>
<td>3 EM 378 (Mechanics of Fluids)</td>
<td>1 EM 327 (Mechanics of Materials Lab)</td>
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<tr>
<td>3-4 Stat 305 or 231 (Statistics for Engr)</td>
<td>3 CE 360 (Soils Engineering)</td>
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<td>3 IE 305 (Engineering Economics)</td>
<td>3 CE 332 (Struct Analysis I)</td>
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<td>3 Engineering Topics Elective</td>
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<td>3 Law Elective (ConE 380 or Acct 215)</td>
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**Senior Year**

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<td>3 ConE 488 (Constr Engr Design II)</td>
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<td>3 CE 382 (Dsgn of Concretes)</td>
<td>3 SSH Elective (US Diversity)</td>
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<td>3 CE 333 (Struct Steel Dsgn I)</td>
<td>3 CE 334 (Reinf Concr Dsgn I)</td>
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<tr>
<td>3 SSH Elective (International Perspective)</td>
<td>3 Business Comm Elective (Engl 302 or 309 or 314)</td>
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**Total Credits**

First Year: 15 Total Credits
Sophomore Year: 17 Total Credits
Junior Year: 16 Total Credits
Senior Year: 15 Total Credits

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<tbody>
<tr>
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<td></td>
<td>3 CE 222 (Contractor Org &amp; Mgmt)</td>
<td>3 ConE 241 (Constr Materials &amp; Methods)</td>
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<td>3 ME 231 (Thermodynamics)</td>
<td>3 Law Elective (ConE 380 or Acct 215)</td>
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<td>3 ConE 487 (Constr Engr Design I)</td>
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<td>1 ConE 251 (M&amp;E Materials &amp; Methods)</td>
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<td>3 ConE 352 (Mech Sys in Bldgs)</td>
<td>2 EE 442 (Circuits)</td>
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<td>3 ConE 441 (Constr Plng, Sch &amp; Cont)</td>
<td>3 ConE 488 (Constr Engr Design II)</td>
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<td>4 Math 165 (Calculus I)</td>
<td>5 Phys 221 (Classical Physics I)</td>
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<td>4 Math 265 (Calculus III)</td>
<td>4 Math 267 (Differential Equations)</td>
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<td>3 Con E 353 (Elec Sys in Bldgs)</td>
<td>3 EM 378 (Mech of Fluids)</td>
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<td>3 EM 324 (Mech of Matls)</td>
<td>3 CE 332 (Struct Analysis I)</td>
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<td>4 Chem 167 (General Chemistry)</td>
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<td>5 Phys 222 (Classical Physics II)</td>
<td>3-4 Stat 305 or 231 (Statistics for Engr)</td>
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<td>2 EE 448 (Intro to AC Circuits &amp; Motors)</td>
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<td>3 EE 448 (Intro to AC Circuits &amp; Motors)</td>
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