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B.S.Ch.E. Chemical Engineering (032T) ........................................................................ pg. 3
B.S. Chemistry (033T) ................................................................................................. pg. 4
B.S.C.E. Civil Engineering (034T) ................................................................................. pg. 5
B.S.Cp.E. Computer Engineering (035T) ..................................................................... pg. 6
B.S. Computer Science (036T) ..................................................................................... pg. 7
B.S.E.E. Electrical Engineering (037T) ....................................................................... pg. 8
B.S.E.E. Electrical Engineering – Electrical Energy Systems Emphasis (ET18) ...... pg. 9
B.S.E.E.T. Electronic Engineering Technology (038T) .............................................. pg. 10
B.S.E.E.T. Electronic Engineering Technology – Civil Area of Emphasis (ET12) ..... pg. 11
B.S.E.E.T. Electronic Engineering Technology – Environmental AOE (ET13) ....... pg. 12
B.S.E.E.T. Electronic Engineering Technology – Mechanical AOE (ET14) ............ pg. 13
B.S. Industrial Technology (040T) .............................................................................. pg. 14
B.S. Information Systems (050T) ................................................................................ pg. 15
B.S. Mathematics (041T) ............................................................................................ pg. 16
B.S. Mathematics – Business Track (041T) .............................................................. pg. 17
B.S. Mathematics – Classic Track (041T) ..................................................................... pg. 18
B.S. Mechanical Engineering (042T) ........................................................................... pg. 19
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**Total hours necessary to earn the B.S.Ch.E. degree = 120.00**

Notes: (1) Restricted electives are chosen from a list approved by the Biology Department.
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Total hours necessary to earn the B.S.Ch.E. degree = 124.00

Notes:

1. Chemical and Enhancement electives must be selected with advisor approval.
2. CHE 451 is certified as a writing course.
### Chemistry

**Bachelor of Science (B.S.) <033T>**

Catalog Year 2016-17

#### First Semester

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**Total hours:** 16.00

**Total hours necessary to earn the B.S.Ch.E. degree = 120.00**

Notes: (1) The 24 hours of restricted electives are chosen from a list approved by the Chemistry Department.
## Civil Engineering
### Bachelor of Science (B.S.C.E.) <034T>
#### Catalog Year 2016-17

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<tbody>
<tr>
<td>CE 312 Construction Materials</td>
<td>CE 351 Introductory Soil Mechanics</td>
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<tr>
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Total hours necessary to earn the B.S.C.E. degree = 125.00

Notes:
1. Technical electives must be approved by the Civil Engineering Department.
2. Four electives, one from structures, environmental, transportation, and geotechnical are required.
3. One CE Elective and two Technical Electives (approved by the CE Department) are also to be taken. These three courses must contain at least 2.0 hours of ABET design content (combined).
### Computer Engineering

**Bachelor of Science in Computer Engineering (B.S.Cp.E.) <035T>**

Catalog Year 2016-17

<table>
<thead>
<tr>
<th>First Semester</th>
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<tbody>
<tr>
<td>ENGL 101</td>
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<td>Calculus I ((GEF 3))</td>
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<td>Fund of Chemistry I ((GEF 8))</td>
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<tbody>
<tr>
<td>MATH 251</td>
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<td>EE 221</td>
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<tbody>
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<td>EE 355</td>
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<td>Signals and Systems I</td>
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**Total hours necessary to earn the B.S.C.E. degree = 126.00**

Notes:

1. The CPE/EE electives are those courses that have a CPE or EE course prefix.
2. The Technical Electives are to be selected from an approved list.
Computer Science
Bachelor of Science (B.S.) <036T>
Catalog Year 2016-17

First Semester

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Fourth Semester

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Fifth Semester

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<td>Managerial Economics <em>(GEC 4)</em></td>
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<td>CS 321</td>
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<td>CS 350</td>
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Seventh Semester

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<td>Probability and Statistics</td>
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<td>TECH <em>(3)</em></td>
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Eighth Semester

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<td>CS 481</td>
<td>Senior Design Project</td>
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Total hours necessary to earn the degree = 120.00

Notes:

*(1)* Laboratory Science is restricted to BIOL 111, BIOL 112, CHEM 111, CHEM 112, CHEM 115, CHEM 116, PHYS 101, PHYS 102, PHYS 111, and PHYS 112.

*(2)* CS Electives may be chosen from and 300 - 400 level CS class, except CS 491.

*(3)* Technical Electives may be chosen from the approved list.

Promise Scholars have to take a total of 30 hours a year to maintain their scholarships. Other financial aid programs may have similar requirements.
### Electrical Engineering  
**Bachelor of Science in Electrical Engineering (B.S.E.E.) <037T>**  
Catalog Year 2016-17

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
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<tbody>
<tr>
<td>ENGL 101 Composition and Rhetoric <em>(GEF 1)</em></td>
<td>ENGL 102 Composition and Rhetoric <em>(GEF 1)</em></td>
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<td>MATH 156 Calculus II <em>(GEF 8)</em></td>
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<tr>
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<td>ENGR 101 Engineering Problem Solving I</td>
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<td>CS 112 Computer Science for Engineers I</td>
<td>GEF 5 Human Inquiry and the Past</td>
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<td>CHEM 115 Fund of Chemistry I <em>(GEF 8)</em></td>
<td>GEF 6 The Arts and Creativity</td>
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<tbody>
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<td>MATH 261 Elementary Differential Equations</td>
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<td>PHYS 112 General Physics <em>(GEF 8)</em></td>
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<td>EE 200 ECE Software Tools</td>
<td>EE 223 Electrical Circuits</td>
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<td>EE 221 Intro. Electrical Engr.</td>
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<tbody>
<tr>
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<td>EE 311 Junior Instrumentation Lab</td>
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<td>EE 329 Signals and Systems II</td>
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<td>EE 327 Signals and Systems I</td>
<td>EE 335 Electromech. Energy Conv.</td>
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<td>CPE 310 Microprocessor Systems</td>
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<td>CPE 311 Microprocessor Lab</td>
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<tr>
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**Total hours necessary to earn the B.S.E.E. degree = 125.00**

**Notes:**  
*(1)* The EE/CPE Electives are those course that have a EE or CPE course prefix.  
*(2)* The Technical Elective must be selected from an approved list.
# Electrical Engineering

**Bachelor of Science in Electrical Engineering (B.S.E.E.) <037T>**

**Electrical Energy Systems Area of Emphasis [ET18]**

Catalog Year 2016-17

## First Semester

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<td>CS 112</td>
<td>Computer Science for Engineers I</td>
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## Second Semester

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## Third Semester

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<td>EE 327</td>
<td>Signals and Systems I</td>
<td>3.00</td>
</tr>
<tr>
<td>CPE 310</td>
<td>Microprocessor Systems</td>
<td>3.00</td>
</tr>
<tr>
<td>CPE 311</td>
<td>Microprocessor Lab</td>
<td>1.00</td>
</tr>
<tr>
<td>CPE 345</td>
<td>Engineering Electromagnetics</td>
<td>3.00</td>
</tr>
<tr>
<td>MATH 448</td>
<td>Probability and Statistics</td>
<td>3.00</td>
</tr>
</tbody>
</table>

**Total:** 17.00

## Sixth Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EE 311</td>
<td>Junior Instrumentation Lab</td>
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<tr>
<td>EE 329</td>
<td>Signals and Systems II</td>
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</tr>
<tr>
<td>EE 335</td>
<td>Electromech. Energy Conv.</td>
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<tr>
<td>EE 336</td>
<td>Electromech. Energy Conv. Lab</td>
<td>1.00</td>
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<tr>
<td>MATH 441</td>
<td>Applied Linear Algebra</td>
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</tr>
<tr>
<td>MATH 448</td>
<td>Probability and Statistics</td>
<td>3.00</td>
</tr>
<tr>
<td>EE 411</td>
<td>Fundamentals of Control Systems</td>
<td>3.00</td>
</tr>
<tr>
<td>EE 412</td>
<td>Automatic Control Lab</td>
<td>1.00</td>
</tr>
<tr>
<td>EE 400</td>
<td>Community Service</td>
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**Total:** 16.00

## Seventh Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>EE 480</td>
<td>Senior Design Seminar</td>
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<tr>
<td>EE 461</td>
<td>Intro. Communication Systems</td>
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</tr>
<tr>
<td>EE 436</td>
<td>Power Systems Analysis</td>
<td>3.00</td>
</tr>
<tr>
<td>EE 411</td>
<td>Fundamentals of Control Systems</td>
<td>3.00</td>
</tr>
<tr>
<td>EE 412</td>
<td>Automatic Control Lab</td>
<td>1.00</td>
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<tr>
<td>EE 400</td>
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<td>0.00</td>
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**Total:** 16.00

## Eighth Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>EE 481</td>
<td>Senior Design Projects</td>
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</tr>
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<td>EE 435</td>
<td>Power Electronics</td>
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<tr>
<td>EE</td>
<td>Energy Related Elective <em>(1)</em></td>
<td>3.00</td>
</tr>
<tr>
<td>EE</td>
<td>Energy Related Elective <em>(2)</em></td>
<td>3.00</td>
</tr>
<tr>
<td>ECON 401</td>
<td>Managerial Economics <em>(GEF 4)</em></td>
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**Total:** 15.00

---

**Total hours necessary to earn the B.S.E.E. degree = 125.00**

Notes:

- *(1)* The EE/CPE Electives are those course that have a EE or CPE course prefix.
- *(2)* The Technical Elective must be selected from an approved list.
## Electronic Engineering Technology
### Bachelor of Science in Electronic Engineering Technology (B.S.E.E.T.) <038T>
#### Catalog Year 2016-17

**Fifth Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 115</td>
<td>Fundamentals of Chemistry</td>
<td>4.00</td>
</tr>
<tr>
<td>ECON 202</td>
<td>Principles of Macroeconomics <em>(GEF 4)</em></td>
<td>3.00</td>
</tr>
<tr>
<td>MATH 315</td>
<td>Advanced Technical Math</td>
<td>4.00</td>
</tr>
<tr>
<td>ENGL 305</td>
<td>Technical Writing</td>
<td>3.00</td>
</tr>
<tr>
<td>ELET 315</td>
<td>Electronic Measurement &amp; Instrumentation</td>
<td>4.00</td>
</tr>
</tbody>
</table>

**Sixth Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GNET 311</td>
<td>Adv Computer Apps, or MANG 386, or MATH 261, or MATH 300-level(+)</td>
<td>3.00</td>
</tr>
<tr>
<td>ELET 337</td>
<td>ELET 315</td>
<td>4.00</td>
</tr>
<tr>
<td>ELET 337</td>
<td>Human Inquiry and the Past</td>
<td>3.00</td>
</tr>
<tr>
<td>ELET 410</td>
<td>Electromech. Energy Conv. Lab</td>
<td>3.00</td>
</tr>
<tr>
<td>ELET 410</td>
<td>Technical Specialty Elective <em>(2)</em></td>
<td>3.00</td>
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**Total:** 18.00

**Seventh Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEF 7</td>
<td>Global Studies and Diversity</td>
<td>3.00</td>
</tr>
<tr>
<td>ELET 420</td>
<td>Microprocessors &amp; Digital Systems</td>
<td>4.00</td>
</tr>
<tr>
<td>ELET 436</td>
<td>Power Systems &amp; PLCs</td>
<td>4.00</td>
</tr>
<tr>
<td>GNET 410</td>
<td>&quot;C&quot; Programming for Tect</td>
<td>3.00</td>
</tr>
<tr>
<td>GNET 412</td>
<td>Project Management</td>
<td>3.00</td>
</tr>
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</table>

**Eighth Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELET 426</td>
<td>Microprocessor-based Data Acq &amp; Contr</td>
<td>4.00</td>
</tr>
<tr>
<td>GEF 6</td>
<td>The Arts and Creativity</td>
<td>3.00</td>
</tr>
<tr>
<td>GNET 489</td>
<td>Senior Seminar &amp; Project <em>(3)</em></td>
<td>2.00</td>
</tr>
<tr>
<td>GNET 489</td>
<td>Technical Elective <em>(2)</em></td>
<td>4.00</td>
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</tbody>
</table>

**Total:** 17.00

**Total hours necessary to earn the B.S.E.E.T. degree = 64.00**

Notes:
1. All requirements of the General Education Foundations curriculum must be met. Some of these requirements are normally satisfied by courses taken for the AS degree.
2. To be approved by advisor. See advisor for approved electives. One technical elective will be selected from the following courses: INDT 384, MATH 261, MEET 435 or any CS 200+ or EE 300+ level course approved by both departments. Exceptions require department chair consent. Other technical specialty electives may be selected from the other ELET courses or courses in other Engineering Technology fields or in engineering fields if prerequisite knowledge is sufficient. A Capstone Course.
### Engineering Technology

**Bachelor of Science in Engineering Technology (B.S.E.T.) <039T>**

**Civil Area of Emphasis [ET12]**

**Catalog Year 2016-17**

<table>
<thead>
<tr>
<th>Fifth Semester</th>
<th>Sixth Semester</th>
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</thead>
<tbody>
<tr>
<td>MATH 315 Advanced Technical Math</td>
<td>GEOL 312 Geology</td>
</tr>
<tr>
<td>ENGL 305 Technical Writing</td>
<td>CIET 325 Codes, Contracts, and Cost Analysis</td>
</tr>
<tr>
<td>MEET 316 Dynamics (4)</td>
<td>CIET 355 Construction Estimating, or</td>
</tr>
<tr>
<td>CIET 382 Environmental Engr Technology</td>
<td>MATH 216, or MATH 300-level (+)</td>
</tr>
<tr>
<td>Technical Speciality Elective (2)</td>
<td>Comp Appl in Hydraulics/Hydrology</td>
</tr>
<tr>
<td></td>
<td>Technical Speciality Elective (2)</td>
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<tr>
<td></td>
<td>3.00</td>
</tr>
<tr>
<td></td>
<td><strong>16.00</strong></td>
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<table>
<thead>
<tr>
<th>Seventh Semester</th>
<th>Eighth Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEF 6 The Arts and Creativity</td>
<td>INDT 420 Construction Technology</td>
</tr>
<tr>
<td>CIET 320 Construction Methods &amp; Equipment</td>
<td>GNET 489 Senior Seminar &amp; Project (3)</td>
</tr>
<tr>
<td>INDT 302 Industrial Safety</td>
<td>GEF 7 Global Studies and Diversity</td>
</tr>
<tr>
<td>DRET 314 Computer Graphics</td>
<td>Technical Speciality Elective (2)</td>
</tr>
<tr>
<td>Technical Speciality Elective (2)</td>
<td>Technical Speciality Elective (2)</td>
</tr>
<tr>
<td>Advanced CAD Elective (5)</td>
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<tr>
<td></td>
<td><strong>18.00</strong></td>
</tr>
</tbody>
</table>

**Total hours necessary to earn degree = 63.00**

**Notes:**

1. All requirements of the General Education Foundations curriculum must be met. Some of these requirements are normally satisfied by courses taken for the AS degree.

2. To be approved by advisor. See advisor for approved electives. One technical elective will be selected from the following courses: INDT 384, MATH 261, MEET 435 or any CS 200+ or EE 300+ level course approved by both departments. Exceptions require department chair consent. Other technical specialty electives may be selected from the other ELET courses or courses in other Engineering Technology fields or in engineering fields if prerequisite knowledge is sufficient. A minimum of 40 semester hours of upper division courses is required.

3. Capstone Course.

4. MAE 242 - Dynamics may be substituted.

5. Must take one of the following courses: DRET 284 - Micro Station, DRET 285 - Land & Topographic Design, DRET 286 - Parametric Modeling, DRET 288 - SurvCAD, or DRET 499 - Techniques in GPS/GIS.

**REMARK:** Students choosing to double major in B.S.E.T. programs must have at least 18 hours of different course work between the two programs.
### Engineering Technology

**Bachelor of Science in Engineering Technology (B.S.E.T.)** <039T>

**Environmental Area of Emphasis [ET13]**

Catalog Year 2016-17

<table>
<thead>
<tr>
<th>Fifth Semester</th>
<th>Sixth Semester</th>
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<tbody>
<tr>
<td>CHEM 116</td>
<td>GEF 5</td>
</tr>
<tr>
<td>Fundamentals of Chemistry II</td>
<td>Human Inquiry and the Past</td>
</tr>
<tr>
<td>PHYS 101</td>
<td>GEF 6</td>
</tr>
<tr>
<td>Introductory Physics I</td>
<td>The Arts and Creativity</td>
</tr>
<tr>
<td>MATH 315</td>
<td>GEOL 312</td>
</tr>
<tr>
<td>Advanced Technical Math</td>
<td>Geology</td>
</tr>
<tr>
<td>ENGL 305</td>
<td>CIET 325</td>
</tr>
<tr>
<td>Technical Writing</td>
<td>Codes, Contracts, and Cost Analysis</td>
</tr>
<tr>
<td>CIET 382</td>
<td>CIET 330</td>
</tr>
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<td>Environmental Engr Technology</td>
<td>Comp Appl in Hydraulics/Hydrology</td>
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**Seventh Semester**

<table>
<thead>
<tr>
<th>Eighth Semester</th>
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<tbody>
<tr>
<td>CE 425</td>
</tr>
<tr>
<td>Engineering Hydrology</td>
</tr>
<tr>
<td>CHE 201</td>
</tr>
<tr>
<td>Material &amp; Energy Balances I</td>
</tr>
<tr>
<td>CHEM 215</td>
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<tr>
<td>Analytic Chemistry</td>
</tr>
<tr>
<td>DRET 314</td>
</tr>
<tr>
<td>Computer Graphics</td>
</tr>
<tr>
<td>GNET 412</td>
</tr>
<tr>
<td>Project Management</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
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<td></td>
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</tbody>
</table>

**Total hours necessary to earn degree = 70.00**

**Notes:**

1. All requirements of the General Education Foundations curriculum must be met. Some of these requirements are normally satisfied by courses taken for the AS degree.

2. To be approved by advisor. See advisor for approved electives. A minimum of 40 semester hours of upper division courses is required.

3. Capstone Course.

**REMARK:** Students choosing to double major in B.S.E.T. programs must have at least 18 hours of different course work between the two programs.
Engineering Technology
Bachelor of Science in Engineering Technology (B.S.E.T.) <039T>
Mechanical Area of Emphasis [ET14]
Catalog Year 2016-17

Fifth Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>DRET 314</td>
<td>Computer Graphics</td>
<td>3.00</td>
</tr>
<tr>
<td>ENGL 305</td>
<td>Technical Writing</td>
<td>3.00</td>
</tr>
<tr>
<td>GNET 412</td>
<td>Project Management</td>
<td>3.00</td>
</tr>
<tr>
<td>MATH 315</td>
<td>Advanced Technical Math</td>
<td>4.00</td>
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<tr>
<td>MEET 316</td>
<td>Dynamics</td>
<td>3.00</td>
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Total: 16.00

Sixth Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>GEF 7</td>
<td>Global Studies and Diversity</td>
<td>3.00</td>
</tr>
<tr>
<td>GNET 308</td>
<td>Adv. Computer Apps, or MANG 386, or MATH 261, or MATH 300-level (+)</td>
<td>3.00</td>
</tr>
<tr>
<td>INDT 308</td>
<td>Automated Manufacturing</td>
<td>3.00</td>
</tr>
<tr>
<td>MATH 315</td>
<td>Advanced Technical Math</td>
<td>3.00</td>
</tr>
<tr>
<td>MEET 435</td>
<td>Energy Conversion Systems</td>
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Total: 15.00

Seventh Semester

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEF 6</td>
<td>The Arts and Creativity</td>
<td>3.00</td>
</tr>
<tr>
<td>GNET 410</td>
<td>&quot;C&quot; Programming for Tech</td>
<td>3.00</td>
</tr>
<tr>
<td>INDT 302</td>
<td>Industrial Safety</td>
<td>3.00</td>
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<tr>
<td></td>
<td>Open Elective (5)</td>
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Total: 15.00

Eighth Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>GEF 4</td>
<td>Society and Connections</td>
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</tr>
<tr>
<td>GEF 5</td>
<td>Human Inquiry and the Past</td>
<td>3.00</td>
</tr>
<tr>
<td>GNET 489</td>
<td>Senior Seminar &amp; Project (3)</td>
<td>2.00</td>
</tr>
<tr>
<td>INDT 410</td>
<td>Plant &amp; Equipment Maintenance</td>
<td>3.00</td>
</tr>
<tr>
<td></td>
<td>Technical Speciality Elective (2)</td>
<td>3.00</td>
</tr>
<tr>
<td></td>
<td>Technical Speciality Elective (2)</td>
<td>3.00</td>
</tr>
</tbody>
</table>

Total: 17.00

Total hours necessary to earn degree = 63.00

Notes:

1. All requirements of the General Education Foundations curriculum must be met. Some of these requirements are normally satisfied by courses taken for the AS degree.

2. To be approved by advisor. The student's overall program must include a sequence of courses in at least three of the following areas: manufacturing processes, mechanical design, engineering materials, solid mechanics, fluid mechanics, electro-mechanical devices and controls or industrial operations. MAE courses may be taken with the approval of both the Advisor and the Chair of Mechanical Engineering, if prerequisites are met. A minimum of 40 semester hours of upper division courses is required.

3. Capstone Course.

4. MAE 112 - Dynamics may be substituted.

5. To be approved by advisor and department chair. The Open Elective course may be a technical speciality course.

6. MAE 420 - Materials Engineering may be substituted.

REMARK: Students choosing to double major in B.S.E.T. programs must have at least 18 hours of different course work between the two programs.
### Industrial Technology
**Bachelor of Science (B.S.) <040T>**
Catalog Year 2016-17

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 101</td>
<td>Composition and Rhetoric <em>(GEF 1)</em></td>
</tr>
<tr>
<td>WVUE 191</td>
<td>First Year Seminar</td>
</tr>
<tr>
<td>DRET 120</td>
<td>Drafting 1</td>
</tr>
<tr>
<td>GEF 5</td>
<td>Technical Elective <em>(1)</em></td>
</tr>
<tr>
<td>MATH 126</td>
<td>College Algebra <em>(GEF 3)</em></td>
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<tr>
<td><strong>Total</strong></td>
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<table>
<thead>
<tr>
<th>Third Semester</th>
<th>Fourth Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 101</td>
<td>Intro to Computer Applications</td>
</tr>
<tr>
<td>ACCT 201</td>
<td>Principles of Accounting</td>
</tr>
<tr>
<td>PHYS 101</td>
<td>Introductory Physics <em>(GEF 2B)</em></td>
</tr>
<tr>
<td>MATH 155</td>
<td>Calculus I <em>(GEF 8)</em></td>
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<tr>
<td></td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>15.00</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fifth Semester</th>
<th>Sixth Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCOR 320</td>
<td>Legal Environment of Business</td>
</tr>
<tr>
<td>ENGL 305</td>
<td>Technical Writing</td>
</tr>
<tr>
<td>INDT 302</td>
<td>Industrial Safety</td>
</tr>
<tr>
<td>BCOR 370</td>
<td>Managing Individuals and Teams</td>
</tr>
<tr>
<td></td>
<td>Technical Speciality Elective <em>(1)</em></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15.00</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Seventh Semester</th>
<th>Eighth Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>GNET 412</td>
<td>Project Management</td>
</tr>
<tr>
<td>GNET 495</td>
<td>Independent Study</td>
</tr>
<tr>
<td>GEF 6</td>
<td>The Arts and Creativity</td>
</tr>
<tr>
<td></td>
<td>Technical Speciality Elective <em>(1)</em></td>
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<td>Technical Speciality Elective <em>(1)</em></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>14.00</strong></td>
</tr>
</tbody>
</table>

**Total hours necessary to earn the B.S.C.E. degree = 120.00**

**Notes:**
*(1)* Subject to approval of the advisor. Selected engineering courses may be taken with the approval of the advisor, the Chair of Engineering Technology Department, and the Chair of the engineering department offering the course, if prerequisite material covered is judged to be sufficient.

*(2)* Capstone course.

**Remarks:** Transfer students entering the program will have their transcripts evaluated for equivalent course work. Any requirements, including those of the General Education Foundations curriculum, not satisfied by transfer courses, will need to be satisfied by appropriate additional courses.
<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 101 Composition and Rhetoric <em>(GEF 1)</em></td>
<td>ENGL 102 Composition and Rhetoric <em>(GEF 1)</em></td>
</tr>
<tr>
<td>ISYS 101 Intro to Information Systems 1</td>
<td>ISYS 102 Intro to Information Systems 2</td>
</tr>
<tr>
<td>MATH 123 Finite Math <em>(GEF 3)</em></td>
<td>MATH 150 Applied Calculus <em>(GEF 8)</em></td>
</tr>
<tr>
<td>CS 121 Computer Science I</td>
<td>CS 122 Computer Science II</td>
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<tr>
<td>WVUE 191 First Year Seminar</td>
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**Total hours necessary to earn the B.S.I.S. degree =** 120.00

**Notes:** *(1) Technical Electives* may be chosen from the approved list.
# Mathematics

**Bachelor of Science in Mathematics (B.S.) <041T>**

Catalog Year 2016-17

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**Total hours necessary to earn the B.S. degree = 120.00**

Notes: (1) Technical Electives may be chosen from the approved list.
### Mathematics

**Bachelor of Science in Mathematics (B.S.)**

**Business Track**

**Catalog Year 2016-17**

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<td><strong>CS 121</strong> Computer Science I</td>
<td><strong>GEF 4</strong> Society and Connections</td>
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<td><strong>MATH 441</strong> Applied Linear Algebra</td>
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**Total hours necessary to earn the B.S. degree = 120.00**

Notes: *(i)* **Technical Electives** may be chosen from the approved list.
# Mathematics

**Bachelor of Science in Computer Engineering (B.S.C.S.) <041T>**

Classic Track

Catalog Year 2016-17

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<thead>
<tr>
<th>First Semester</th>
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**Total hours necessary to earn the B.S. degree = 120.00**

Notes: *(1) Technical Electives* may be chosen from the approved list.
# Mechanical Engineering
## Bachelor of Science in Mechanical Engineering (B.S.M.E.) <042T>

**Catalog Year 2016-17**

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### Second Semester

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**Total hours: 14.00**

### Third Semester

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### Fourth Semester

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**Total hours: 17.00**

### Fifth Semester

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### Sixth Semester

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<td>Managerial Economics <em>(GEF 4)</em></td>
<td>3.00</td>
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<tr>
<td>MAE 460</td>
<td>Auto Controls</td>
<td>3.00</td>
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**Total hours: 17.00**

### Seventh Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MAE 405</td>
<td>Sr. Mechanical Engineering Lab</td>
<td>1.00</td>
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<tr>
<td>MAE 455</td>
<td>CADD-Comp Aided Des &amp; Drafting</td>
<td>3.00</td>
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<tr>
<td>MAE 480</td>
<td>ME Systems Design I</td>
<td>3.00</td>
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<tr>
<td>GEFS 6</td>
<td>The Arts and Creativity</td>
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<tr>
<td>GEFS 7</td>
<td>Global Studies and Diversity</td>
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<tr>
<td>GEFS 1</td>
<td>Technical Elective <em>(1)</em></td>
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**Total hours: 16.00**

### Eighth Semester

<table>
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<th>Course</th>
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<tr>
<td>ENGR 401</td>
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<td>MAE 410</td>
<td>Materials Science <em>(GEF 2B)</em></td>
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<td>MAE 456</td>
<td>Finite Element Design</td>
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<td>MAE 481</td>
<td>ME Systems Design II</td>
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<tr>
<td>MAE 419</td>
<td>Technical Elective <em>(2)</em></td>
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**Total hours: 14.00**

**Total hours necessary to earn the B.S.M.E. degree = 125.00**

Notes: *(1)* The Technical Elective must be selected from an approved list.