**B.S. Electronic Systems Engineering Technology**  
**Catalog 142  2019-2020**

### Freshman

<table>
<thead>
<tr>
<th>FALL</th>
<th>SPRING</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 104  3-0-3</td>
<td>American HIST/ UCC  3 credits</td>
</tr>
<tr>
<td>POLS 206  3 credits</td>
<td>Core</td>
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</tbody>
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### Sophomore

<table>
<thead>
<tr>
<th>FALL</th>
<th>SPRING</th>
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<tbody>
<tr>
<td>ENGR 102  2 credits</td>
<td>Engr Lab – Comp.</td>
</tr>
<tr>
<td>ENGR 216  1-3-2</td>
<td>Engr Lab II – Mech.</td>
</tr>
<tr>
<td>MATH 152  3-2-4</td>
<td>Engineering Math II</td>
</tr>
<tr>
<td>PHYS 206  3-0-3</td>
<td>Mechanics</td>
</tr>
<tr>
<td>PHYS 207  3-0-3</td>
<td>Electricity and Magnetism</td>
</tr>
</tbody>
</table>

### Core Curriculum Courses

- **Math Elective 3-0-3**
- **Math**

### Major Coursework

- **ESET 210**  3-3-4  
  Circuit Analysis
- **ESET 211**  2-3-3  
  Power Sys & Cir App
- **ESET 219**  3-3-4  
  Digital Electronics
- **ESET 269**  2-3-3  
  Embed Sys Dev in C
- **ESET 455**  3-3-4  
  EMAG & High Freq Sys
- **ESET 350**  3-3-4  
  Analog Electronics
- **ESET 349**  3-3-4  
  Microcontroller Arch

### Core Courses

- **ESET 355**  3-3-4  
  Electromagnetics
- **ESET 352**  3-3-4  
  Electronics Test I
- **ESET 350**  3-3-4  
  Digital Circuit Tech
- **ESET 315**  3-3-4  
  Local Metro Area Networks
- **ESET 319**  2-3-3  
  Engr Leadership
- **ESET 329**  2-3-3  
  Six Sigma & App Stat
- **ESET 319**  2-3-3  
  Engr Leadership
- **ENGL 197**  3-3-4  
  Rhetoric
- **MATH 152**  3-2-4  
  Engineering Math II

### Technical Courses

- **ESET 419**  3-0-3  
  Engr Tech Capstone I
- **ESET 420**  0-6-2  
  Eng Tech Capstone II
- **ESET 462**  3-3-4  
  Control Systems
- **ESET 415**  2-3-3  
  Network Security
- **ESET 432**  2-3-3  
  Product Development
- **ESET 455**  3-3-4  
  Eng Tech Test

### Preparatory Courses

- **CHEM 107/117**  3-3-4  
  Chem for Engr & Lab

### Notes

- **Bold blue boxes** must be completed prior to taking all coursework shown inside the Gray box.
- **Bold blue boxes** must be completed prior to taking all coursework shown inside the Gray box.
- **# - # - #** lecture hours, # lab hours, # credits
- **To view Core Curriculum courses, visit core.tamu.edu**
- **Choose electives from approved list in advising office**

* Math electives can be chosen from Math 251, 253, 304, 308, 309, 311

* Check Restrictions & Details link in Howdy (under each course name) for up to date prerequisites and information.