ASSOCIATE OF SCIENCE  
Field of Study in Engineering

<table>
<thead>
<tr>
<th>SCH</th>
<th>Course Code</th>
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**FIRST YEAR - FALL SEMESTER**

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<thead>
<tr>
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<tbody>
<tr>
<td>3</td>
<td>ENGL 1301</td>
<td>Composition I</td>
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<tr>
<td>3</td>
<td>HIST 1301</td>
<td>United States History I or HIST 2327</td>
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<tr>
<td>4</td>
<td>MATH 2413</td>
<td>Calculus I*</td>
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<td>CHEM 1411</td>
<td>General Chemistry I</td>
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<td>2</td>
<td>ENGR 1201</td>
<td>Introduction to Engineering</td>
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**FIRST YEAR - SPRING SEMESTER**

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<tbody>
<tr>
<td>3</td>
<td>ENGL 1302</td>
<td>Composition II - Rhetoric</td>
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<td>MATH 2414</td>
<td>Calculus II</td>
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<td>4</td>
<td>PHYS 2425</td>
<td>University Physics I</td>
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<td>3 or 4</td>
<td>Engineering Elective**</td>
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**SECOND YEAR - FALL SEMESTER**

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<tr>
<td>4</td>
<td>MATH 2415</td>
<td>Calculus III</td>
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<tr>
<td>3</td>
<td>GOVT 2305</td>
<td>Federal Government</td>
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<tr>
<td>3</td>
<td>HIST 1302</td>
<td>United States History II or HIST 2328</td>
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<tr>
<td>4</td>
<td>ENGR 2405</td>
<td>Electrical Circuits I or CHEM 2423***</td>
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<tr>
<td>3</td>
<td>Creative Arts Elective - Core Curriculum</td>
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**SECOND YEAR - SPRING SEMESTER**

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<tr>
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<td>4</td>
<td>PHYS 2426</td>
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**RECOMMENDED AFTER COMPLETION OF DEGREE TO BE CORE COMPLETE**

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<tbody>
<tr>
<td>3</td>
<td>ECON 2301</td>
<td>Principles of Economics I - Macro</td>
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<tr>
<td>3</td>
<td>PHIL 2306</td>
<td>Introduction to Ethics</td>
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*Check catalog for course pre-requisites.  
**Students should speak with an advisor and check with the institution they intend to transfer in order to choose the best option.  
Students must choose electives within the same block. (See below)  
***Students pursuing the Chemical/Environmental/Petroleum Track must take CHEM 2423 while other tracks must take ENGR 2405.

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**General/Mechanical/Civil Engineering Track (9 Credits)**  
ENGR 1304 Engineering Graphics  
ENGR 2301 Statics  
ENGR 2302 Dynamics

**Electrical/Computer Engineering Track (11 Credits)**  
ENGR 2303 Engineering Mechanics - Statics & Dynamics  
ENGR 2406 Digital Systems Engineering I  
COSC 1436 Programming Fundamentals I

**Chemical/Environmental/Petroleum Engineering Track (11 Credits)**  
Required:  
CHEM 1412 General Chemistry II  
ENGR 2303 Engineering Mechanics - Statics & Dynamics

**Choose One Course:**  
CHEM 2425 Organic Chemistry II OR (Chemical Engineering)  
BIOL 1406 Biology for Science Majors I OR (Environmental Engineering)  
GEOL 1403 Physical Geology (Petroleum Engineering)