PATHWAY: Engineering and Physics
Visit your College Advisor, ccc.edu, or your college’s Transfer Center for more information.

This is an example course sequence for students interested in Engineering or Physics. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Associate in Engineering Science (AES) degree. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below.

Choose your courses with your College Advisor.

<table>
<thead>
<tr>
<th>ENGLISH PLACEMENT</th>
<th>READING PLACEMENT</th>
<th>MATHEMATICS PLACEMENT</th>
<th>GENERAL EDUCATION COURSES</th>
<th>ELECTIVE COURSES</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESL/FS Writing</td>
<td>ESL/FS Reading</td>
<td>FS Mathematics I</td>
<td>Humanities: Africana Studies 101</td>
<td>College Success</td>
</tr>
<tr>
<td>ESL/English 98</td>
<td>ESL/Reading 99</td>
<td>FS Mathematics II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ESL 99</td>
<td>ESL Reading 100</td>
<td>Mathematics 98</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ESL/English 100</td>
<td>Reading 125</td>
<td>Mathematics 99</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

DEGREE CODE: AES 0100

SEMESTER-BY-SEMESTER PROGRAM PLAN FOR FULL-TIME STUDENTS
All plans can be modified to fit the needs of part-time students by adding more semesters.

D SEMESTER 1 CATEGORY ACHIEVEMENTS & NEXT ACTIONS
• English 101–Composition I (3) Communications
• Chemistry 201–General Chemistry I (5) Physical & Life Sciences
• Mathematics 207–Calculus and Analytic Geometry I (5) Mathematics
• Fine Arts & Humanities course (HD) (3) Fine Arts & Humanities (HD)

16 CREDIT HOURS

D SEMESTER 2 CATEGORY ACHIEVEMENTS & NEXT ACTIONS
• Mathematics 208–Calculus II (5) Mathematics
• Physics 235–Engineering Physics I (5) Physical & Life Sciences
• English 102–Composition II (3) Communications
• Engineering 190–Computer Applications in Engineering (3) Required Program Core

16 CREDIT HOURS

D SEMESTER 3 CATEGORY ACHIEVEMENTS & NEXT ACTIONS
• Economics 202–Principles of Economics II (3) Social & Behavioral Sciences
• Mathematics 209–Calculus III (5) Required Program Core
• Physics 236–Engineering Physics II (5) Required Program Core
• Program Elective (3–5) Elective

16–18 CREDIT HOURS

D SEMESTER 4 CATEGORY ACHIEVEMENTS & NEXT ACTIONS
• Mathematics 210–Differential Equations (3) Required Program Core
• Physics 237–Engineering Physics III (5) Required Program Core
• Program Elective (5) Elective
• Program Elective (3–5) Elective

COMPLETION of Associate in Engineering Science degree in Engineering and Physics
DO THIS–Apply to four-year schools of your choice

16–18 CREDIT HOURS

DEGREE MINIMUM: 64 CREDIT HOURS // PATHWAY TOTAL: 64–66 CREDIT HOURS

PROGRAM ELECTIVES
- Physics 215–Statics (3)
- Physics 216–Dynamics (3)
- Physics 217–Mechanics of Materials (3)
- Engineering 111–Introduction to the Engineering Profession (2)
- Engineering 131–Engineering Graphics and Introduction to Design (3)
- Engineering 215–Electrical Circuit Analysis (5)
- Engineering 250–Engineering Projects (1–2)
- Chemistry 203–General Chemistry II (5)
- Electronics 206–Digital Circuits and Systems (4)

D = DEGREE // AC = ADVANCED CERTIFICATE // BC = BASIC CERTIFICATE

Programs offered at: ☻ ☻ ☻ ☻ ☻