**MECHANICAL ENGINEERING**

CCRI students who wish to transfer to URI’s Bachelor of Science (B.S.) degree program in Mechanical Engineering must have a minimum grade point average of 2.50 in the mathematics, science, and engineering courses being transferred. Your goal should be to complete all courses outlined below and seek to begin at URI for a Fall semester if you would like to finish the B.S. degree within 2 years after arrival. To confirm all requirements to earn a CCRI A.S. in Engineering, consult the CCRI Engineering Department.

### From: CCRI A.S. Engineering

<table>
<thead>
<tr>
<th>MATHEMATICS</th>
<th>SCIENCE</th>
<th>ENGINEERING</th>
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</thead>
<tbody>
<tr>
<td>MATH 2141 Calculus I (4)</td>
<td>CHEM 1030 General Chemistry I (5)</td>
<td>ENGR 2260 Introduction to Engineering and Technology (3)</td>
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<tr>
<td>MATH 2142 Calculus II (4)</td>
<td>PHYS 1100 Engineering Physics (4)</td>
<td>ENGR 2150 Introduction to Engineering Analysis (2)</td>
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<tr>
<td>MATH 2243 Calculus III (4)</td>
<td>ENGR 2151 Introduction to Electrical Engineering (3)</td>
<td>ENGR 2540 Mechanics of Materials for Engineers (3)</td>
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<tr>
<td>MATH 2362 Advanced Engineering Mathematics (4)</td>
<td>Choose One (1) of the following Two (2) courses:</td>
<td>ENGR 2620 Linear Electrical Systems and Circuit Theory for Engineers (3)</td>
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<td>ENGR 2630 Engineering Graphics (3)</td>
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**Choose One (1) of the following Two (2) courses:**

- General Chemistry I (3) + General Chemistry I Lab (1) + CHM 1XX Elective (1)
- General Chemistry II (+ CHM 112 Lab (1) and CHM 1XX Elective (1))

**Electrical Engineering:**

- ISE 240 (3) & ISE 241 (1)

### To: URI B.S. Mechanical Engineering

<table>
<thead>
<tr>
<th>MATHEMATICS, SCIENCE, and ENGINEERING</th>
<th>SCIENCE</th>
<th>ENGINEERING</th>
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<tbody>
<tr>
<td>MATH 141 Calculus I (4)</td>
<td>CHM 101 General Chemistry I (3) + CHM 102 General Chemistry I Lab (1) + CHM 1XX Elective (1)</td>
<td>EGR 105 Foundations of Engineering I (1) + EGR 1XX Elective (2)</td>
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<tr>
<td>MATH 142 Calculus II (4)</td>
<td>PHYS 103 Elementary Physics I (3) + PHYS 273 Elementary Physics I Lab (1)</td>
<td>EGR 106 Foundations of Engineering II (2)</td>
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<td>MATH 243 Multivariable Calculus (3)</td>
<td>PHYS 203 Elementary Physics II (3)</td>
<td>CVE 220 Mechanics of Materials (3)</td>
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<td>MATH 244 Differential Equations (3)</td>
<td>PHYS 274 Elementary Physics II Lab (1)</td>
<td>ELE 220 Passive and Active Circuits (3)</td>
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<td>MCE 201 Engineering Graphics (3)</td>
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<td>MCE 262 Statics (3)</td>
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<td>MCE 263 Dynamics (3)</td>
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</table>

**Engineering:**

- ENGR 2150 Introduction to Engineering Analysis (2)
- ENGR 2540 Mechanics of Materials for Engineers (3)
- ENGR 2620 Linear Electrical Systems and Circuit Theory for Engineers (3)
- ENGR 2630 Engineering Graphics (3)
- ENGR 2650 Engineering Mechanics-Statics (3)
- ENGR 2660 Engineering Mechanics-Dynamics (3)

**General Education Outcomes:**

- **Humanities:**
  - ENGL 1010 Composition I (3)
  - ENGL 2100 Technical Report Writing (3)
  - PHIL 2030 Ethics (3)

- **Social Science:**
  - ECN 2030 Principles of Microeconomics (3)

- **Mathematics:**
  - WRT 104 Writing to Inform and Explain (3)
  - WRT 332 Technical Writing (3)
  - PHL 212 Ethics (3)

- **Arts and Design:**
  - Arts and Design (student must complete EGR 105 and 106 to satisfy this outcome)

- **Technical Writing:**
  - Technical Writing (3)

- **Mathematics:**
  - Information Literacy

- **Arts and Design:**
  - Diversity and Inclusion

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### Notes:

- CCRI General Education Key – **[GE-H]** Humanities; **[GE-M/S]** Mathematics and Science; **[GE-S]** Social Science (consult current CCRI catalog for other courses)
- URI General Education Outcomes Key – **[GE-A1]** Science, Technology, Engineering, and Mathematical (STEM); **[GE-A2]** Social and Behavioral Sciences; **[GE-A3]** Humanities; **[GE-A4]** Arts and Design (student must complete EGR 105 and 106 to satisfy this outcome); **[GE-B1]** Write Effectively; **[GE-B2]** Communicate Effectively; **[GE-B3]** Mathematical, Statistical, or Computational strategies; **[GE-B4]** Information Literacy; **[GE-C3]** Diversity and Inclusion

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