### Fall Semester

**First Year**
- EN 101: Introduction to Engineering
- EN 103: Problem Solving for Engineers
- MATH 126: Calculus & Analytic Geometry I
- ENG 101: English Composition I
- General Education Courses

**Total Semester Hours**: 16

**Second Year**
- EN 211: Engineering Mechanics I
- EN 231/L: Circuit Analysis/Lab
- MATH 207: Matrix & Vector Algebra w/ App.
- PHYS 222/L: General Physics II/Lab

**Total Semester Hours**: 15

**Third Year**
- EN 321: Thermodynamics
- EN 343: Engineering Economy
- EN 360/L: Control Systems I/Lab
- EN 362/L: Introduction to Mechatronics/Lab
- EN 365: Stochastic Systems Engineering

**Total Semester Hours**: 16

**Fourth Year**
- EN 430: Project Planning and Control
- EN 473/L: Computer Integrated Manufacturing/Lab
- EN 486: Senior Seminar
- SP COM 103: Speaking and Listening
- General Education Courses

**Total Semester Hours**: 17

### Spring Semester

**First Year**
- EN 107: Engineering Graphics
- MATH 224: Calculus & Analytic Geometry II
- PHYS 221/L: General Physics I/Lab
- ENG 102: English Composition II

**Total Semester Hours**: 15

**Second Year**
- EN 212: Engineering Mechanics II
- EN 324/L: Materials Science & Engineering/Lab
- EN 260: Basic Electronics
- EN 263: Electromechanical Devices
- MATH 337: Differential Equations I

**Total Semester Hours**: 15

**Third Year**
- EN 361/L: Digital Electronics/Lab
- EN 363/L: Virtual Machine Design/Lab
- EN 441/L: Engineering of Manufacturing Processes/Lab
- EN 443: Quality Control and Reliability
- EN 460/L: Control Systems II/Lab

**Total Semester Hours**: 17

**Fourth Year**
- EN 462/L: Industrial Robotics/Lab
- EN 487: Engineering Design
- Technical Electives
- Math/Science Electives
- General Education Courses

**Total Semester Hours**: 18

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**General Education Requirements:** 15 semester hours

- **ENG 101:** English Composition I (3)
- **ENG 102:** English Composition II (3)
- Mathematics Course (3)
- **MATH 126:** Calculus & Analytic Geometry I (5)
- Humanities Courses (9)
- **SPCOM 103:** Speaking and Listening (3)
- History Course (3)
- Social Sciences Courses (6)
- Natural and Physical Sciences Courses (8) (2 courses with labs)
  - **PHYS 221/L:** General Physics I/Lab (5)
  - **PHYS 222/L:** General Physics II/Lab (5)

**Course Completed elsewhere**

<table>
<thead>
<tr>
<th>CSU-Pueblo equivalent</th>
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<td>(Ex: English 101)</td>
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**Major Requirements:**

**Specific Requirements for the BSE-Mechatronics:**

Semester Hours: 80 semester hours

- **EN 101:** Introduction to Engineering (2)
- **EN 103:** Problem Solving for Engineers (3)
- **EN 107:** Engineering Graphics (2)
- **EN 211:** Engineering Mechanics I (3)
- **EN 212:** Engineering Mechanics II (3)
- **EN 231/L:** Circuit Analysis/Lab (5)
- **EN 260:** Basic Electronics (2)
- **EN 263:** Electromechanical Devices (3)
- **EN 321:** Thermodynamics (3)
- **EN 324/L:** Materials Science and Engineering (4)
- **EN 343:** Engineering Economy (3)
- **EN 360/L:** Control Systems I/Lab (3)

**Specific Requirements for the BSE-Mechatronics cont’d:**

- **EN 361/L:** Digital Electronics/Lab (4)
- **EN 362/L:** Introduction to Mechatronics/Lab (3)
- **EN 363/L:** Virtual Machine Design/Lab (3)
- **EN 365:** Stochastic Systems Engineering (4)
- **EN 430:** Project Planning and Control (3)
- **EN 441/L:** Engineering of Manufacturing Process/Lab (4)
- **EN 443:** Quality Control and Reliability (3)
- **EN 460/L:** Control Systems II/Lab (3)
- **EN 462/L:** Industrial Robotics/Lab (3)
- **EN 473/L:** Computer Integrated Manufacturing/Lab (3)
- **EN 487:** Engineering Design (3)
- **EN 486:** Senior Seminar (2)
- Technical Electives (3)
- Math/Science Electives (3)

Technical Electives must be chosen from an approved list or have the approval of an Engineering advisor.

**Other Required Courses:**

Required Semester Hours: **49 semester hours**

- **MATH 126:** Calculus & Analytic Geometry I (5)
- **MATH 224:** Calculus & Analytic Geometry II (5)
- **MATH 207:** Matrix & Vector Algebra with Applications (2)
- **MATH 337:** Differential Equations I (3)
- **PHYS 221/L:** General Physics I/Lab (5)
- **PHYS 222/L:** General Physics II/Lab (5)
- **ENG 101:** English Composition I (3)
- **ENG 102:** English Composition II (3)
- **SPCOM 103:** Speaking and Listening (3)
- General Education Courses (15)

(Courses italicized meet General Education requirements)

**Institutional Graduation Requirements:**

- Total of 120 semester hours, minimum.
- Complete a minimum of 40 semester hours in upper-division courses.
- Overall cumulative grade point average of 2.00.
- A minimum of 60 semester hours must be earned from a four year institution. Of theses, a minimum of 30 semester hours of credit must be earned in residence.
- Of the last 30 semester credits earned immediately preceding graduation, no more than 15 may be completed at other colleges or universities.
- All other requirements as specified in the Catalog.

**Additional Major Graduation Requirements:**

- Total of 129 semester hours, minimum.
- Students are required to have earned a cumulative GPA of 2.00 or better in required EN courses.

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