### Pre-Major Courses (Non-Degree Credit)

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<tr>
<th>Course</th>
<th>Hrs Cr</th>
<th>ASU Tr</th>
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<tbody>
<tr>
<td>CHM 113 Gen Chemistry I (4)</td>
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<td>CSE 180 Computer Literacy (3)</td>
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<td>MAT 170 Precalculus (3)</td>
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<td>PHY 105 Basic Physics (3)</td>
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### English Proficiency (6 hrs) University requirement—“C” min required

+ ENG 101 / 107 First-Year Comp (3) and
+ ENG 102 / 108 First-Year Comp (3)

Or, if eligible (see Catalog for eligibility),
+ ENG 105 Adv First-Year Comp (3) and
An Applicable Elective (3) – see Department

Sub Total (I)

### General Requirements (15 hrs) See Catalog for approved courses

A. Humanities & Social Sciences (15 hrs min)

(Required: 1 course upper division, plus a minimum of two courses that satisfy three awareness areas: cultural (C), global (G), and historical (H). Double counting is permissible between HU or SB and the awareness areas and also within the awareness areas.)

- Humanities, Fine Arts, and Design (6 hrs min)(HU)

- Social/Behavioral Sciences (6 hrs min)(SB)
  - ECN 211 or ECN 212 Macro/ Micro Econ (SB) 3

 Awareness Areas:
- Cultural
- Global
- Historical

B. Literacy/Critical Inquiry (6 hrs)

C. Natural Sciences/Basic Sciences (8 hrs)

D. Mathematical Studies (6 hrs)

Sub Total (II)

### Required Lower Division Courses (52 hrs)

A. Natural Sciences/Basic Sciences/Mathematical Studies (30 hrs)

- BME 111 Engr Persp on Bio Sys OR
- BCH 361 Principles of Bio Chem 3
- CHM 114 or 116 Chemistry (SO), OR
- CHM 231 and 235 Organic Chem (SO) 4
- MAT 265 Calc for Engrs I 3
- MAT 266 Calc for Engrs II 3
- MAT 267 Calc for Engrs III 3
- MAT 274 or 275 Diff Eq (MA) 3
- PHY 121 Physics I (SO) 3
- PHY 122 Physics Lab I (SO) 1
- PHY 131 Physics II (SO) 3
- PHY 132 Physics Lab II (SO) 1
- PHY 241 University Physics III 3

B. Lower Division Engineering (22 hrs)

- #CSE 100 Prin of Prog C++ (CS) 3
- #EEE 101 Intro Engr Design (CS) 3
- #EEE 120 Dig Des Fund 3
- #EEE 202 Circuits I 4
- #EEE 203 Signals & Syst I 3
- #EEE 230 Comp Org & Asm Lang 3
- #EEE 241 Fund of Electromag I 3

Sub Total (III)

### Required Upper Division Courses (47 hrs)

- #MAT 342 or 343 Lin Algebra 3
- #EEE 334 Circuits II 4
- #EEE 350 Random Signal Analysis 3
- #EEE 488 Senior Design Lab I (L) 3
- #EEE 489 Senior Design Lab II (L) 3
- #Area Pathway Requirement (16 hrs)(choose 4)
  - EEE 304 Signals and Systems II (4)
  - EEE 333 Hardware Design & Syn (4)
  - EEE 335 Analog and Digital Circuits (4)
  - EEE 341 Engr Electromagnetics (4)
  - EEE 352 Prop. Electronic Materials (4)
  - EEE 360 Engr Sys & Pwr Electronic (4)

Sub Total (IV)

### ASU Requirement for all incoming Freshmen

- ASU 101 The ASU Experience 1 credit

**Total Upper Division** (minimum 45 required)

- A minimum grade of "C" (2.0) required
- Designates Major Course: A minimum cumulative GPA of 2.00 required
- Designates a skill-set course
- CHM 113 is prerequisite and does not apply toward degree credit
- Must complete lecture and lab to receive SQ credit

**Graduation Requirements:**

Regular Curriculum – 120 Hours

### Semester Hour Summary

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<tr>
<th>Hrs/ASU</th>
<th>Tr Hrs</th>
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<tbody>
<tr>
<td>I. English Proficiency</td>
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<td>II. General Requirements</td>
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<td>III. Required Lower Division</td>
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<td>Total Program Hours</td>
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5/23/07