### ASU Requirement for all incoming Freshmen

<table>
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<tr>
<th>Requirement</th>
<th>Hrs</th>
<th>Cr</th>
<th>ASU Tr</th>
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<th>Gr</th>
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<tbody>
<tr>
<td>I. English Proficiency (6 hrs)</td>
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<tr>
<td>(University requirement – “C” min required)</td>
<td>1</td>
<td>credit</td>
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<tr>
<td>+ ENG 101 / 107 First-Year Comp (3) and</td>
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<tr>
<td>+ ENG 102 / 108 First-Year Comp (3)</td>
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<td>Or, if eligible (see Catalog for eligibility),</td>
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<tr>
<td>+ ENG 105 Adv First-Year Comp (3) and</td>
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<tr>
<td>An Applicable Elective (3) – see Department</td>
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<td><strong>Sub Total (I)</strong></td>
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### II. General Requirements (15 hrs) (See Catalog for approved courses)

#### A. Humanities & Social Sciences (15 hrs min)

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

#### B. Social/Behavioral Sciences (6 hrs min) (SB)

- ECN 211 Macroeconomics Prin (SB)

#### Awareness Areas:

- Cultural
- Global
- Historical

#### B. Literacy/Critical Inquiry (6 hrs)

- Satisfied by required courses in Major

#### C. Natural Sciences/Basic Sciences (8 hrs)

- Satisfied by required courses in Major

#### D. Mathematical Studies (6 hrs)

- Satisfied by required courses in Major

**Sub Total (II)**

### III. Required Lower Division Courses (54 hrs)

#### A. Natural Sciences/Basic Sciences (15 hrs)

- BME 111 Engr Persp on Bio Sys
- CHM 114 or 116 Chemistry (SQ)
- PHY 121 University Physics I (SQ)²
- PHY 122 Univ. Physics Lab I (SQ)²
- PHY 131 University Physics II (SQ)²
- PHY 132 Univ. Physics Lab II (SQ)²

#### B. Mathematical Studies (14 hrs)

- MAT 242 Elem. Linear Algebra
- + MAT 265 Calc for Engrs I
- + MAT 266 Calc for Engrs II
- MAT 267 Calc for Engrs III
- MAT 275 Mod Diff. Eqs (MA)

**Sub Total (III)**

### IV. Required Upper Division Courses (45 hrs)

**C. Lower Division Engineering (25 hrs)**

- CEE 211 Engr Mechanics: Stat & Dyn
- MAE 212 Engr Mechanics
- CSE 110 Prin. of Prog. with Java (CS)
- CSE 205 Con of CS & Data Struc (CS)
- EEE 202 Circuits I
- + IEE 100 Intro Engr Dsgn For IE (CS)
- + IEE 210 Intro to Indust Engr
- + IEE 220 Business & Ind. Engr.
- MSE 250 Structure / Prop. of Matter

**Sub Total (III)**

**Career-Focused Area Electives (9 hrs) See Dept**

- +IE Technical Elective (3 hrs) See Dept

**Sub Total (IV)**

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

- A minimum grade of “C” (2.0) 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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<th>Requirement</th>
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<th>ASU Tr</th>
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<tbody>
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<td>I. English Proficiency</td>
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<tr>
<td>II. General Studies</td>
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<tr>
<td>III. Required Lower Division</td>
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<tr>
<td>IV. Required Upper Division</td>
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**Total Program Hours**

5/9/07