**FIRST YEAR MAKING CONNECTIONS: 3 hrs.**

<table>
<thead>
<tr>
<th>Course</th>
<th>Grade</th>
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<tbody>
<tr>
<td>CS 1093: Making Connections CS</td>
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<tr>
<td>UC 1013: Making Connections</td>
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</tr>
</tbody>
</table>

**GENERAL EDUCATION REQUIREMENTS: 36 hrs.**

- **Communication: 9 hrs.**
  - EN 1003: Composition I
  - EN 1013: Composition II
  - SPCH/COMS 1203: Oral Communication

- **Mathematics: 4 hrs.**
  - MATH 2204: Calculus I

- **Fine Arts and Humanities: 6 hrs.**
  - Fine Arts *(one of next three)*
  - ART 2503: Fine Arts - Visual
  - MUS 2503: Fine Arts - Musical
  - THEA 2503: Fine Arts - Theatre
  - Humanities *(one of next three)*
  - ENG 2003: Intro Literature of Western World I
  - ENG 2013: Intro Literature of Western World II
  - PHIL 1103: Intro to Philosophy

- **Social Sciences: 9 hrs.**
  - Economics *(one of next two)*
  - ECON 2313: Principles of Macroeconomics
  - ECON 2333: Economic Issues & Concepts
  - Understanding Global Issues *(one of next eight)*
  - ANTH 2233: Intro to Cultural Anthropology
  - GEOG 2613: Intro to Geography
  - HIST 1013: World Civilization To 1660
  - HIST 1023: World Civilization Since 1660
  - JOUR/RTV 1003: Mass Communication
  - POSC 1003: Introduction to Politics
  - PSY 2013: Introduction to Psychology
  - SOC 2213: Introduction to Sociology
  - U.S. History or Government *(one of next three)*
  - HIST 2763: The United States To 1876
  - HIST 2773: The United States Since 1876
  - POSC 2103: Intro to U.S. Government

- **Science: 8 hrs.**
  - Life Sciences *(one of next four and BIOL 1001)*
  - BIOL 1003: Biological Science
  - BIOL 1033: Biology of Sex
  - BIOL 1043: Plants and People
  - BIOL 1063: People and the Environment
  - BIOL 1001: Biological Science Laboratory
  - Physical Sciences *(one of next two)*
  - PHYS 2034: University Physics I
  - PHYS 2073: Fundamental Physics I and
  - PHYS 2071: Fundamental Physics I Laboratory

**Computer Science (required): 32 hrs.**

- CS 2114: Structured Programming
- CS 2124: OOP & Fundamental Data Structures
- CS 3113: Algorithms & Adv Data Structures
- CS 3123: Programming Languages
- CS 3223: Computer Organization
- CS 3233: Operating Systems
- CS 4113: Software Engineering
- CS 4143: Java and Application Development
- CS 4543: Database Systems
- CS 4713: Analysis of Algorithms

**English: 3 hrs.**

- ENG 3043: Technical Writing

**Philosophy: 3 hrs.**

- PHIL 3723: Computers, Ethics & Society

**Science: 8 hrs.**

- CHEM 1013: General Chemistry I and
- CHEM 1011: General Chemistry I Lab
- PHYS 2044: University Physics II or
- PHYS 2083: Fundamental Physics II and
- PHYS 2081: Fundamental Physics II Laboratory

**Electrical Engineering: 3 hrs.**

- EE 3333: Digital Electronics I

**PhD**

- FRED ELECTIVES: 1 - 7 hrs.

  Electives must complete 120 earned hours for the degree.

- Note: Substitutions to major requirements must be accompanied by student petition approved by CS Curriculum Committee.
Graduation Check List

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Completed</th>
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<tbody>
<tr>
<td>English proficiency</td>
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<tr>
<td>(C or better in ENG 1003 &amp; 1013)</td>
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<tr>
<td>3 hours HIST 2763 or 2773 or POSC 2103</td>
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<tr>
<td>2.00 average overall</td>
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<tr>
<td>2.00 average in major</td>
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<tr>
<td>2.00 average at ASU</td>
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<tr>
<td>120 hours for degree</td>
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<tr>
<td>18 of last 24 hours on ASU campus</td>
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<tr>
<td>32 resident hours</td>
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<tr>
<td>45 Jr/Sr hours after 30 hours</td>
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<tr>
<td>Minimum 57 hours from 4-year institutions</td>
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<tr>
<td>Maximum 31 hours cor/ext/exam/CLEP/MS/USAFI</td>
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<tr>
<td>(maximum 30 hours by exam/CLEP)</td>
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The above named student has met all requirements for graduation providing he/she satisfactorily completes the courses of current enrollment. If correspondence or transfer credit, official transcript must be filed with registrar at least three weeks prior to graduation.

Adviser: ___________________________ Date: __________

Chair of Computer Science: ___________________________ Date: __________

Dean of Sciences and Mathematics: ___________________________ Date: __________