## Requirements for the Bachelor of Science in Computer Science/Master of Science

**Accredited by ABET, Inc. (formerly the Accrediting Board for Engineering and Technology)**

### College of Engineering

**The University of Oklahoma**

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#### General Requirements

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Hours</th>
<th>Second Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FIRST SEMESTER</strong></td>
<td></td>
<td><strong>SECOND SEMESTER</strong></td>
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<tr>
<td><strong>FRESHMAN</strong></td>
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<td><strong>SOPHOMORE</strong></td>
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<tr>
<td><strong>JUNIOR</strong></td>
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<td><strong>SENIOR</strong></td>
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<tr>
<td><strong>FIFTH YEAR</strong></td>
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<td><strong>COMPUTER SCIENCE</strong></td>
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**Total Credit Hours**  

**Minimum Retention/Graduation Grade Point Averages:**

- Overall - Combined and OU: **3.25**
- Major - Combined and OU: **3.25**
- Curriculum - Combined and OU: **3.25**

A minimum grade of C is required for each course in the curriculum.

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### OU encourages students to complete at least 29 hours of applicable coursework each year to have the opportunity to graduate in five years.

#### Year 1

- **English:** ENGL 1113, Prin. of English Composition (Core I)
- **Math:** MATH 1823, Calculus & Analytic Geometry I (Core I)
- **Computer Science:** CS 1113, American Federal Government (Core III)
- **Freshman Experience:** ENGR 1411, Freshman Engineering Experience
- **Approved Elective:** Artistic Forms (Core IV)
- **Total Credit Hours:** 16

#### Year 2

- **Math:** MATH 2433, Calculus & Analytic Geometry III
- **Computer Science:** CS 2334, Programming Structures & Abstractions
- **Physics:** PHYS 2603, Applied Logic for Hardware & Software
- **Total Credit Hours:** 14

#### Year 3

- **Math:** MATH 3113, Intro. to Ordinary Differential Equations, or
- **Computer Science:** CS 3413, Physical Mathematics I
- **Communication:** COMM 2613, Public Speaking
- **Total Credit Hours:** 14

#### Year 4

- **Math:** HSCI 3493, The History of Media (Core IV - WC)
- **Computer Science:** CS 4203, Software Engineering I
- **Total Credit Hours:** 15

#### Year 5

- **Math:** **G5000-level Approved Elective**
- **Computer Science:** **C S Elective**
- **Total Credit Hours:** 9

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*Students may enter the accelerated program based on the undergraduate degree pattern offered in the year they first enrolled in the Oklahoma State System of Higher Education or later.

**NOTE:** Engineering transfer students may take ENGR 3511 in place of ENGR 1411.

1. Courses designated as Core I, II, III, IV or Capstone are part of the General Education curriculum. Students must complete a minimum of 40 hours of General Education courses, chosen from the approved list.
2. Students must successfully complete prerequisite courses (with a minimum C grade) before proceeding to the next course.
3. Two college-level courses in a single foreign language are required; this may be satisfied by successful completion of 2 years in a single foreign language in high school. Students who must take foreign language at the University will have an additional 6-10 hours of coursework.
4. Students must choose the following for these five electives: one Theory elective; two Systems electives; and two Applications electives. No more than two of these courses may be at the 4000-level. Courses for the three areas are listed below.
5. Theory electives are to be chosen from C S 5413, 5433, 5813, or 5823.
6. Systems electives are to be chosen from C S 4323, 4613 at the 4000 level; C S 5023, 5113, 5123, 5133, 5143, 5153, 5163, 5633, or 6143 at the 5000 level.
7. Applications electives are to be chosen from C S 4013, 5033, 5043, 5053, 5083, 5213, 5513, 5613, 5743, or 5753.
8. No more than two enrollments (six hours) in MATH 5980, “Graduate Seminar” courses are allowed.
9. This course fulfills the Computer Literacy Requirement for graduation as required by the Oklahoma State Regents for Higher Education.

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**Computer Science**

- Bachelor of Science in Computer Science/Master of Science (Computer Science)

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**F235 Q146**

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5-10
Students will practice oral and written communication skills. (Sp)