## Major: Computer Science

### Major Requirements

<table>
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<tr>
<th>Course</th>
<th>Hrs</th>
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<tbody>
<tr>
<td>CS 160 Survey of Computer Science</td>
<td>3</td>
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<tr>
<td>CS 161 Computer Science I</td>
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<td>CS 162 Computer Science II</td>
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<td>CS 260 Data Structures I</td>
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<td>CS 262 Programming Language</td>
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<td>CS 271 Computer Organization</td>
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<tr>
<td>CS 311 Data Structures II</td>
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<td>CS 315 Theory of Programming Languages</td>
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<td>CS 345 Theory of Computation I</td>
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<td>CS 372 Operating Systems</td>
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<td>CS 409 Practicum</td>
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<td>CS 409 Practicum</td>
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<td>CS 420 Database Management</td>
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<td>CS 425 Systems Analysis and Design</td>
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<td>CS 430 Software Implementation</td>
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**Choose nine hours from one sequence:**

#### A) Computational Theory
- CS 440 Analysis of Algorithms (3)
- CS 445 Theory of Computation (3)
- CS 447 Compiler Design (3)
- CS 449 Topics in Computational Theory (3)

#### B) System Management
- CS 450 Network Fundamentals
- CS 451 Management of Info Sys
- CS 452 Internet Communications
- CS 453 Data Mining/Data Ware
- CS 459 Topics in Sys Management

#### C) Software Engineering
- CS 470 Human Machine Interfaces
- CS 471 Metrics and Testing
- CS 472 Operating Systems: Adv. Topics
- CS 474 Concurrent Systems
- CS 475 Applied Computational Intelligence
- CS 479 Topics in Software Engineering

**Choose an elective in Math**
- MTH 341 Linear Algebra I
- MTH 346 Number Theory
- MTH 354 Discrete Structures I

#### Program Notes & Additional Degree Requirements

- **Note:** Computer Science majors must have a grade of C or better in courses that are used to satisfy the major requirements.

- Students must also have a C or better in all listed prerequisite courses unless waived by the course instructor and the computer science division chair.

### Minimum Degree Requirements of at least:

- 180 or more total credit hours
- 62 Upper Division credit hours
- 45 of last 60 credits earned at WOU campus

### BA Degree Requirements

- CS 101 or higher
- Math 105 or higher
- Writing Intensive
- Foreign Language

### BS Degree Requirements

- CS121 or higher
- Math 111 or higher
- CS/Math/Stats
- Diversity
- Writing Intensive