COMPUTER SCIENCE – APPLIED OPTION (On-Campus)

FIRST YEAR

**Academic Year 2022-2023**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
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</thead>
<tbody>
<tr>
<td><strong>ENGR 100</strong></td>
<td>The Oregon State Engineering Student</td>
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<tr>
<td>F, W, S, U (3)</td>
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<tr>
<td><strong>ENGR 102</strong></td>
<td>Design Engineering And Problem Solving</td>
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<tr>
<td>F, W, S, U (3)</td>
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<tr>
<td><strong>MTH 251</strong></td>
<td>Differential Calculus</td>
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<tr>
<td>F, W, S, U (4)</td>
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<tr>
<td><strong>WR 121</strong></td>
<td>English Composition Alpha Sectioned</td>
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<tr>
<td>F, W, S, U (4)</td>
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<tr>
<td><strong>HHS 231 + 241/PAC</strong></td>
<td>Lifetime Fitness</td>
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<tr>
<td>F, W, S, U (2+1)</td>
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<tr>
<td><strong>COMM 111/114</strong></td>
<td>Speech</td>
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<tr>
<td>F, W, S, U (3)</td>
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<tr>
<td><strong>HHS 231 + 241/PAC</strong></td>
<td>Lifetime Fitness</td>
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<tr>
<td>F, W, S, U (2+1)</td>
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<tr>
<td><strong>Perspectives</strong></td>
<td>Biological Science</td>
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<tr>
<td>F, W, S, U (3)</td>
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<tr>
<td><strong>Perspectives</strong></td>
<td>Western Culture</td>
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<td>F, W, S, U (3)</td>
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| Unrestricted Electives | (3) |

SECOND YEAR

<table>
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<tr>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
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<tbody>
<tr>
<td><strong>ENGR 102 &amp; co-req MTH 112</strong></td>
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<tr>
<td><strong>ENGR 103</strong></td>
<td>Engineering Computation and Algorithmic Thinking</td>
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<tr>
<td>F, W, S, U (3)</td>
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<tr>
<td><strong>ENGR 103 or CS 161</strong></td>
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<tr>
<td><strong>CS 162</strong></td>
<td>Intro to Comp. Sci. II C++, C</td>
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<td>F, W, S, U (4)</td>
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<tr>
<td><strong>CS 162</strong></td>
<td>Writing for Bus./ English Comp.</td>
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<td>F, W, S, U (3)</td>
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<tr>
<td><strong>CS 271</strong></td>
<td>Computer Arch. &amp; Assembly Lang. W, S, U (4)</td>
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<tr>
<td><strong>CS 261</strong></td>
<td>Data Structures C</td>
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<td>F, W, S, U (4)</td>
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<tr>
<td><strong>Perspectives</strong></td>
<td>Physical Science</td>
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<tr>
<td>F, W, S, U (4)</td>
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<tr>
<td><strong>Perspectives</strong></td>
<td>Difference, Power &amp; Discrimination</td>
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<tr>
<td>F, W, S, U (3)</td>
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<tr>
<td><strong>Perspectives</strong></td>
<td>Literature &amp; Arts</td>
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<td>F, W, S, U (3)</td>
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<tr>
<td><strong>Perspectives</strong></td>
<td>Cultural Diversity</td>
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<td>F, W, S, U (3)</td>
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<tr>
<td><strong>Perspectives</strong></td>
<td>Second Biological or Physical Science</td>
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<td>F, W, S, U (4)</td>
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</table>

| Unrestricted Electives | (3) |

Notes:
1. F, W, S, U: Represents the term the course is offered (Fall, Winter, Spring, Summer)
2. ( ) : Represents the credits of the course
3. Arrows: Prerequisites and co-requisites for that course
4. Summer Courses may be cancelled due to low enrollment
5. Students cannot S/U major courses
6. 180 total credits are needed to graduate
7. Majority of courses are also offered through Ecampus

Updated 4/8/2022
COMPUTER SCIENCE – APPLIED OPTION (On-Campus)

THIRD YEAR

Academic Year 2021-2022

Fall

CS 261 & (CS 271 or ECE 271)
CS 344 Operating Systems I
F, W, S, U (4)

CS 261 & (CS 225 or MTH 231)
CS 325 Analysis of Algorithms
F, W, S, U (4)

CS 361 Software Engineering I
F, W, U (4)

CS 362 Software Engineering II
W, S, U (4)

Approved Elective
(4)

Approved Elective
(4)

Junior Standing

CS 391 Social/Ethical Issues
(STS Synthesis)
F, S (3)

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   (Fall, Winter, Spring, Summer)
2. ( _ ) : Represents the credits of the course
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WINTER

CS 261
CS 372 Intro. to Computer Networks
F, W, S, U (4)

CS 381 Programming Language Fund.
W, S, U (4)

Approved Elective
(4)

Approved Elective
(4)

Spring

CS 461 Senior Capstone I
F (3)

CS 462 Senior Capstone II
Must be taken sequentially:
F, W, S

CS 325, CS 361, & CS 362

CS 344 & (CS 271 or ECE 375)
CS 444 Operating Systems II
F, S (4)

Synthesis
Contemporary Global Issues
F, W, S, U (3)

CS 344 & (CS 271 or ECE 271)

CS 462

ENGR 103 or CS 161

FOURTH YEAR

Fall

CS 340 Introduction to Databases
F, S, U (4)

CS 461 Senior Capstone I

CS 462 Senior Capstone II

ENGR 103 or CS 161

CS 463 Senior Capstone III
S (2)

CS 290

CS 352 Intro. to Usability Engineering
S, U (4)

Unrestricted Electives
(3)

Winter

CS 352

CS 462

CS 463

Notes:
6. 180 total credits are needed to graduate
7. Majority of courses are also offered online through
   Ecampus
8. Approved Applied Plans require a minimum of 32
   credits approved by the Department
9. CS 391 counts for both Major and Science, Technology
   and Society (Synthesis) credits

Spring

CS 344 & (CS 271 or ECE 271)
CS 325 Analysis of Algorithms
F, W, S, U (4)

CS 361 Software Engineering I
F, W, U (4)

CS 362 Software Engineering II
W, S, U (4)

Approved Elective
(4)

Approved Elective
(4)

Approved Elective
(4)

Approved Elective
(4)

CS 391 Social/Ethical Issues
(STS Synthesis)
F, S (3)

Effective from Fall 2022

Updated 4/8/2022