# COMPUTER SCIENCE – Cybersecurity Option: Security Operations Track (Corvallis Campus)

## FIRST YEAR

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<th>Academic Year 2023-2024</th>
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<td>Fall</td>
<td>Winter</td>
<td>Spring</td>
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<tr>
<td><strong>ENGR 100</strong>&lt;br&gt;The Oregon State Engineering Student&lt;br&gt;F, W, S, U (3)</td>
<td><strong>MTH 251</strong>&lt;br&gt;Differential Calculus&lt;br&gt;F, W, S, U (4)</td>
<td><strong>ENGR 102 &amp; co-req MTH 112</strong>&lt;br&gt;Design Engineering And Problem Solving&lt;br&gt;F, W, S, U (3)</td>
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<td><strong>MTH 111</strong></td>
<td><strong>MTH 252</strong>&lt;br&gt;Integral Calculus&lt;br&gt;F, W, S, U (4)</td>
<td><strong>ENGR 103</strong>&lt;br&gt;Engineering Computation and Algorithmic Thinking&lt;br&gt;F, W, S, U (3)</td>
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<td><strong>COMM 111/114</strong>&lt;br&gt;Speech&lt;br&gt;F, W, S, U (3-4)</td>
<td><strong>MTH 231</strong>&lt;br&gt;Discrete Math&lt;br&gt;F, W, S, U (4)</td>
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<td><strong>WR 121Z</strong>&lt;br&gt;English Composition&lt;br&gt;Alpha Sectioned&lt;br&gt;F, W, S, U (4)</td>
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<td><strong>HHS 231 + 241/PAC</strong>&lt;br&gt;Lifetime Fitness&lt;br&gt;F, W, S, U (2+1)</td>
<td><strong>Perspectives</strong>&lt;br&gt;Social Processes &amp; Institutions&lt;br&gt;F, W, S, U (3)</td>
<td><strong>Perspectives</strong>&lt;br&gt;Physical Science&lt;br&gt;F, W, S, U (4)</td>
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<td><strong>Perspectives</strong>&lt;br&gt;Biological Science&lt;br&gt;F, W, S, U (4)</td>
<td><strong>Perspectives</strong>&lt;br&gt;Western Culture&lt;br&gt;F, W, S, U (3)</td>
<td><strong>Perspectives</strong>&lt;br&gt;Literature &amp; Arts&lt;br&gt;F, W, S, U (3)</td>
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<td><strong>Perspectives</strong>&lt;br&gt;Biological Science&lt;br&gt;F, W, S, U (4)</td>
<td><strong>Perspectives</strong>&lt;br&gt;Western Culture&lt;br&gt;F, W, S, U (3)</td>
<td><strong>Perspectives</strong>&lt;br&gt;Cultural Diversity&lt;br&gt;F, W, S, U (3)</td>
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## SECOND YEAR

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<td>Fall</td>
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<tr>
<td><strong>ENGR 103 or CS 161</strong></td>
<td><strong>CS 261</strong>&lt;br&gt;Data Structures&lt;br&gt;C&lt;br&gt;F, W, S, U (4)</td>
<td><strong>CS 271</strong>&lt;br&gt;Computer Arch. &amp; Assembly Lang.&lt;br&gt;W, S, U (4)</td>
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<td><strong>CS 162</strong>&lt;br&gt;Intro to Comp. Sci. II&lt;br&gt;C++&lt;br&gt;F, W, S, U (4)</td>
<td><strong>WR 214</strong>&lt;br&gt;Writing in Business&lt;br&gt;F, W, S, U (3)</td>
<td>(CS 225 or MTH 231) &amp; CS 162</td>
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<td><strong>WR 121</strong></td>
<td><strong>WR 227Z</strong>&lt;br&gt;Technical Writing&lt;br&gt;F, W, S (4)</td>
<td><strong>CS 175</strong>&lt;br&gt;Comm Security &amp; Social Movements&lt;br&gt;Sp (3) – Ecampus</td>
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<td><strong>CS 290</strong>&lt;br&gt;Web Development&lt;br&gt;F (4)</td>
<td><strong>CS 162</strong></td>
<td><strong>Unrestricted Electives</strong></td>
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<td><strong>CS 175</strong>&lt;br&gt;Comm Security&lt;br&gt;F, W, S (4)</td>
<td><strong>Unrestricted Electives</strong></td>
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### 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
8. CS 175 is only offered via Ecampus and counts for both Major and Difference, Power, Discrimination baccore
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THIRD YEAR

Academic Year 2023-2024

Fall

CS 370
Intro to Security
F, S (4)

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

CS 261
Operating Systems I
F, W, S, U (4)

Pre-or co-req CS 344

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

CS 261 & (CS 271 or ECE 271)

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

CS 261 & (CS 225 or MTH 231)

CS 321
Intro to Theory of Computation
F, W, U (3)

CS 344 & CS 370

CS 344
Analysis of Algorithms
F, W, S, U (4)

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

CS 344 & (CS 271 or ECE 375)

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

CS 425
Cybersecurity Practicum I
F, S (4)

CS 444
Operating Systems II
F, W, S, U (4)

CS 477
Intro to Digital Forensics
S (4)

CS 478
Network Security
S (4)

CS 424
Cybersecurity Elective
(3)

CS 427
Cryptography
W (4)

CS 428
Cybersecurity Capstone Project (WIC)
S (3)

CS 424
Cybersecurity Elective
(3)

CS 426
Cybersecurity Practicum III
W (5)

CS 425
Cybersecurity Practicum II
W (5)

CS 426
Cybersecurity Elective
(4)

CS 424
Junior Standing

CS 406
Synthesis
F, W, S, U (3)

CS 428
Cybersecurity Elective
(3)

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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 online through
   Ecampus
8. CS 391 counts for both Major and Science, Technology
   and Society (Synthesis) credits
9. See EECS Advisor for list of approved Cybersecurity
   Electives
10. CS 424, 425, 426 courses are restricted to students who have
    officially declared the Cybersecurity Option and must be completed in
    the same academic year

Updated 6/7/2023