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

FIRST YEAR — *Academic Year 2023-2024* — SECOND YEAR

Fall	Winter	Spring	Fall	Winter	Spring
ENGR 100 The Oregon State Engineering Student F, W, S, U (3)	**ENGR 102** Design Engineering And Problem Solving F, W, S, U (3)	*(ENGR 102 & co-req MTH 112)* **ENGR 103** Engineering Computation and Algorithmic Thinking F, W, S, U (3)	*(ENGR 103 or CS 161)* **CS 162** Intro to Comp. Sci. II C++, C F, W, S, U (4)	*(ENGR 103 or CS 161)* **CS 271** Computer Arch. & Assembly Lang. W, S, U (4)	*(ENGR 103 or CS 161)* **CS 352** Intro to Usability Engineering S (4)
(MTH 112) **MTH 251** Differential Calculus F, W, S, U (4)	*(MTH 251)* **MTH 252** Integral Calculus F, W, S, U (4)	*(MTH 111)* **MTH 231** Discrete Math F, W, S, U (4)	*(WR 121)* **WR 214** Writing for Business F, W, S, U (3)	*((CS 225 or MTH 231) & CS 162)* **CS 261** Data Structures C F, W, S, U (4)	*(CS 162)* **CS 290** Web Development F, S (4)
WR 121Z English Composition Alpha Sectioned F, W, S, U (4)	**COMM 111Z/114** Speech F, W, S, U (3-4)	**Perspectives** Social Processes & Institutions F, W, S, U (3)	**Perspectives** Physical Science F, W, S, U (4)	**Perspectives** Second Biological or Physical Science F, W, S, U (4)	*(WR 121)* **WR 227Z** Technical Writing F, W, S (4)
HHS 231 + 241/PAC Lifetime Fitness F, W, S, U (2+1)	**Perspectives** Biological Science F, W, S, U (4)	**Perspectives** Western Culture F, W, S, U (3)	**Perspectives** Literature & Arts F, W, S, U (3)	**Perspectives** Cultural Diversity F, W, S, U (3)	**CS 175** Comm Security & Social Movements Sp (3) - Ecampus
		Unrestricted Electives (2)	**Unrestricted Electives (2)**		

Notes:
1. F, W, S, U: Represents the term the course is offered (**F**all, **W**inter, **S**pring, S**u**mmer)
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

Updated 6/7/2023

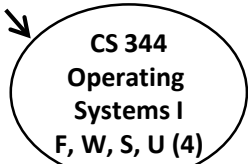# COMPUTER SCIENCE – Cybersecurity Option: Security Track (Corvallis Campus)
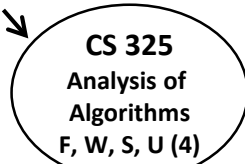
THIRD YEAR — *Academic Year 2023-2024* — FOURTH YEAR

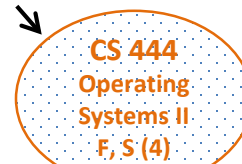| Fall	Winter	Spring	Fall	Winter	Spring

Column 1 (Third Year Fall):

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

CS 261
→ **CS 361** Software Engineering I — F, W, U (4)

Pre- or co-req CS 344
→ **CS 370** Intro to Security — F, S (4)

CS 290
→ **CS 340** Intro to Databases — F, S, U (4)

Column 2 (Third Year Winter):

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

CS 261
→ **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 261 & (CS 271 or ECE 271)
→ **CS 372** Intro to Computer Networks — F, W, S, U (4)

Column 3 (Third Year Spring):

Cybersecurity Elective (3)

CS 344 & CS 370
→ **CS 477** Intro to Digital Forensics — S (4)

Cybersecurity Elective (4)

Junior Standing
→ **CS 391** Social/Ethical Issues (STS Synthesis) — F, S (3)

Column 4 (Fourth Year Fall):

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

CS 325, CS 361, & CS 362
→ **CS 461** Senior Capstone 1 — F (3)

CS 344, CS 340, & CS 372
→ **CS 373** Defense Against the Dark Arts — F – Ecampus only (4)
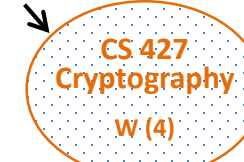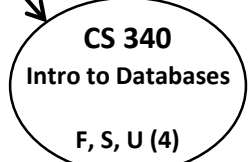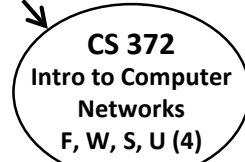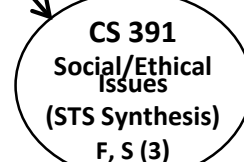
Cybersecurity Elective (4)

Column 5 (Fourth Year Winter):

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

CS 461 & CS 362
→ **CS 462** Senior Capstone 2 — W (3)

CS 261
→ **CS 427** Cryptography — W (4)

Cybersecurity Elective (4)

Column 6 (Fourth Year Spring):

Cybersecurity Elective (3)

CS 462
→ **CS 463** Senior Capstone 3 — S (2)

CS 372
→ **CS 478** Network Security — S (4)

Cybersecurity Elective (4)

(Arrows connect CS 461 → CS 462 → CS 463)

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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. CS 461, 462, 463 must be completed in the same academic year

Unrestricted Electives (4)

Updated 6/7/2023