COMPUTER SCIENCE – Cybersecurity Option: Security Operations 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)	**Unrestricted Electives** (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 in 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 111/114** 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
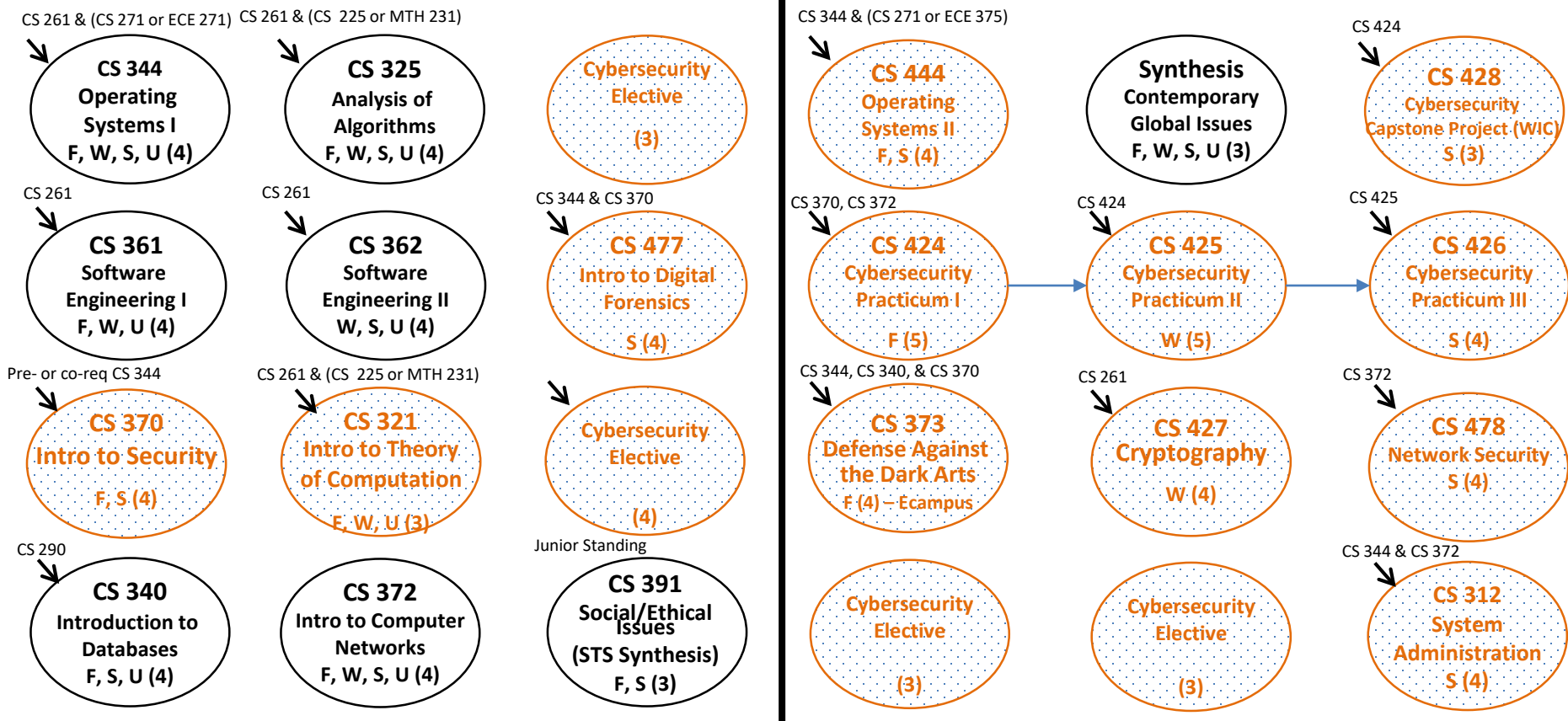
Updated 6/7/2023

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

THIRD YEAR — *Academic Year 2023-2024* — FOURTH YEAR

Fall	Winter	Spring	Fall	Winter	Spring

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)

Cybersecurity Elective — (3)

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 424

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

CS 261

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

CS 261

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

CS 344 & CS 370

CS 477 Intro to Digital Forensics — S (4)

CS 370, CS 372

CS 424 Cybersecurity Practicum I — F (5)

CS 424

CS 425 Cybersecurity Practicum II — W (5)

CS 425

CS 426 Cybersecurity Practicum III — S (4)

Pre- or co-req CS 344

CS 370 Intro to Security — F, S (4)

CS 261 & (CS 225 or MTH 231)

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

Cybersecurity Elective — (4)

CS 344, CS 340, & CS 370

CS 373 Defense Against the Dark Arts — F (4) – Ecampus

CS 261

CS 427 Cryptography — W (4)

CS 372

CS 478 Network Security — S (4)

CS 290

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

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

Junior Standing

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

Cybersecurity Elective — (3)

Cybersecurity Elective — (3)

CS 344 & CS 372

CS 312 System Administration — S (4)

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 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