

New Cybersecurity Option Coming Fall 2023

May 21, 2023

Beginning Fall 2023, we anticipate a new Option within the Computer Science Degree will be available. This new **Cybersecurity Option** will replace the Cybersecurity Focus Area within the Applied Option. This new Option provides students with two different tracks to pursue a variety of careers within the field.

As of today, we are still waiting for the Cybersecurity Option to be officially approved. We do not anticipate any issues with getting the approval. We cannot change students into the Cybersecurity Option until it is officially approved. We will send out an email notification when the Option has been approved.

Security Operations Track – Corvallis Campus

The Security Operations Track, also known as the Practicum track, offers Corvallis based students the opportunity to gain nearly a year's worth of real-world experience at ORTSOC, a professionally guided student-run Managed Security Services center that offers much-needed cybersecurity services to underserved public and not-for-profit organizations across the region. In the practicum, students will participate in a series of clinical rotations in a variety of specializations within the field. The practicum sequence, CS 424-426, replaces the traditional CS Senior Design sequence, CS 461-463.

Security Track – Corvallis and Ecampus Campuses

The Security Track, also known as the Project track, allows students to pursue a more traditional pathway through the degree. Students in this track will take the traditional CS Senior Design sequence, CS 461-463, where they will utilize software engineering methodology in a team environment to develop a real-world application, in addition to their required series of cybersecurity courses.

Proposed Cybersecurity Option Curriculum (pending official approval)

Courses required for both tracks:

- CS 175 – Communication Security & Social Movements (covers DPD Baccore)
- CS 271 – Computer Architecture and Assembly Language
- CS 321 – Intro to Theory of Computation
- CS 370 – Intro to Security
- CS 372 – Intro to Computer Networks
- CS 373 – Defense Against the Dark Arts
- CS 427 – Cryptography
- CS 444/474 – Operating Systems II
- CS 477 – Intro to Digital Forensics
- CS 478 – Network Security

Courses required for Security Operations Track (Corvallis campus only)

- CS 312 – System Administration

- CS 424 – Cybersecurity Practicum I
- CS 425 – Cybersecurity Practicum II
- CS 426 – Cybersecurity Practicum III
- CS 428 – Cybersecurity Capstone Project (covers WIC Baccore)
- Cybersecurity Electives – 13 credits

Courses required for the Security Track (Corvallis and Ecampus campuses)

- CS 352 – Intro to Usability Engineering
- CS 461 – Senior Software Engineering Project I
- CS 462 – Senior Software Engineering Project II
- CS 463 – Senior Software Engineering Project III
- Cybersecurity Electives – 22 credits

Please reach out to EECS Advising if you have questions about degree requirements, Options, course planning or registration. Questions can be directed to your primary EECS advisor or by emailing us at EECSUndergrad.Info@oregonstate.edu.

Please reach out to Dr. Dave Nevin if you have non-registration related questions about the courses included in the Cybersecurity Option or if you are wanting more information about this Option.

Sincerely,

Advising Team

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[Advising Website](#)

Need to speak to an advisor today? Check-out our [drop-in advising hours](#)