

# Computer Science Department

## Registration Newsletter for Fall 2022

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Registration is around the corner! Start thinking about your courses for next semester.

**Advising Window:** March 21 – April 4

**Registration Window:** April 5 – 15

Check PAWS to find your academic advisor and Fall 2022 registration window.

Please watch for an email from your academic advisor with instructions for making advising appointments.

All Computer Science majors must meet with their academic advisors before registering for classes.

A registration hold has been placed on your PAWS account and will be removed **only** after the advising meeting.

**You will not be able to register for Fall 2022 courses until you have met with your academic advisor and have had your advising hold removed after the meeting.**

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### Fall 2022 Advanced Core Option

**CSC 360-01: Computer Networking, T/F, 2:00 – 3:20 PM, Dr. Li**

**CSC 360-02: Computer Networking, T/F, 3:30 – 4:50 PM, Dr. Li**

*(Prerequisites: CSC 230, CSC 270, and MAT 127, each with a grade of C or higher. Non-majors may use CSC 250 in lieu of CSC 230.*

*Mathematics majors may use MAT 200 and CSC 271 each with a grade of C or higher in lieu of CSC 270.)*

This course introduces basic elements of modern computer and telecommunication networks. A hybrid five-layer reference model resembling the popular TCP/IP model is discussed. In each layer, the state-of-the-art hardware and software technologies are introduced. These include: fiber-optic and mobile/cellular communications; HTTP/WEB; wavelength/time division multiple access protocols; TCP/UDP and ATM adaptation layer protocols; network security.

### Fall 2022 Options Courses

**CSC 355-01: Human Computer Interaction, M/TH, 2:00 – 3:20 PM, Dr. Salgian**

*(Prerequisites: CSC 230, 270, or MAT 127, each with a grade C or higher. Non-majors may use CSC 250 in lieu of CSC 230. Mathematics majors may use MAT 200 and CSC 271 each with a grade of C or higher in lieu of CSC 270.)*

This course will cover various aspects of the interaction between computer systems and human operators. Topics covered will include the underlying principles for human computer interaction, from aspects of human perception and memory, to user interface design. The course will culminate in a final project in which students will design and implement their own HCI applications.

**CSC 470-01: Special Topics: Computer Vision and Multimedia Applications, M/TH, 9:30 – 10:50 AM, Dr. Yoon**

*(Prerequisites: CSC 230, CSC 270 and MAT 127 each with a grade of C or higher. Non-majors may use CSC 250 in lieu of CSC 230.*

*Mathematics majors may use MAT 200 and CSC 271 each with a grade of C or higher in lieu of CSC 270.)*

This course introduces students to fundamental computer vision algorithms and computational methods for visual information processing. It focuses on investigating a wide variety of methods used in modern computer vision applications for image analysis, and it covers low-level image processing and high-level analysis operations, such as detection, recognition, and semantic segmentation. Time permitting, students will also learn about selected advanced topics, such as image alignment and stitching, structure from motion, depth estimation, and multi-view stereo.

**CSC 470-02: Special Topics: Information Systems Security, T/F, 9:30 – 10:50 AM, Prof. DeGood**

*(Prerequisites: CSC 230, CSC 270 and MAT 127 each with a grade of C or higher. Non-majors may use CSC 250 in lieu of CSC 230.*

*Mathematics majors may use MAT 200 and CSC 271 each with a grade of C or higher in lieu of CSC 270.)*

This course provides an overview of security challenges and countermeasure strategies in the information systems environment. Topics include terms, concepts, elements, and goals incorporating industry standards and practices with a focus on the confidentiality, availability, and integrity aspects of information systems. The course is designed to provide a rich learning experience through the use of discussions and hands-on exercises. Learning is reinforced with a course-long project that provides an opportunity to apply the concepts covered throughout the course to a real-world scenario. Course topics will cover a majority of the objectives of the CompTIA Security+ certification exam.

### Couldn't get into the CS courses you wanted?

Complete the CS Department's Qualtrics Form in order to get on the wait-list (*after your registration window has opened*):

<https://bit.ly/35GdtJ7>

# Computer Science Department Advising Notes

## Fall 2022 Computer Science Courses


199-01	W	11:00 – 11:50 AM	Dr. Papamichail
199-02	W	11:00 – 11:50 AM	Dr. Das
199-03	W	11:00 – 11:50 AM	Dr. Ferdous
220-01	T/F F	11:00 AM – 12:20 PM 2:00 – 3:20 PM	Prof. DeGood
220-02	T/F T	3:30 – 4:50 PM 2:00 – 3:20 PM	Prof. DeGood
220-03	M/TH TH	12:30 – 1:50 PM 11:00 AM – 12:20 PM	Dr. Ferdous
220-04	T/F T	9:30 – 10:50 AM 3:30 – 4:50 PM	Dr. Turka
220-05	T/F F	2:00 – 3:20 PM 3:30 – 4:50 PM	Dr. Turka
230-01	T/F T	9:30 – 10:50 AM 11:00 AM – 12:20 PM	Dr. Russo
230-02	T/F F	2:00 – 3:20 PM 11:00 AM – 12:20 PM	Dr. Russo
270-01	M/TH M	9:30 – 10:50 AM 11:00 AM – 12:20 PM	Dr. Salgian
325-01	M/TH TH	9:30 – 10:50 AM 11:00 AM – 12:20 PM	Dr. Knox
325-02	M/TH TH	2:00 – 3:20 PM 3:30 – 4:50 PM	Dr. Knox
335-01	T/F	9:30 – 10:50 AM	Dr. Papamichail
335-02	T/F	2:00 – 3:20 PM	Dr. Papamichail
345-01	M/TH TH	12:30 – 1:50 PM 11:00 AM – 12:20 PM	Dr. Yoon
355-01	M/TH	2:00 – 3:20 PM	Dr. Salgian
360-01	T/F	2:00 – 3:20 PM	Dr. Li
360-02	T/F	3:30 – 4:50 PM	Dr. Li
415-01	M/TH M	9:30 – 10:50 AM 11:00 AM – 12:20 PM	Dr. Pulimood
415-02	M/TH TH	12:30 – 1:50 PM 11:00 AM – 12:20 PM	Dr. Pulimood
435-01	T/F	11:00 AM – 12:20 PM	Dr. Das
470-01	M/TH	9:30 – 10:50 AM	Dr. Yoon
470-02	T/F	9:30 – 10:50 AM	Prof. DeGood

### Advising Resources

Visit the [CS Department's advising webpage](#) for more information on course planning, the suggested sequence, and requirements for internships and mentored research projects.

**Reminder:** all CS sophomores *must* take CSC 199 in Fall 2022.

### PAWS Holds

During advising, review your PAWS account for any financial, health or housing requirement, or other holds you may have. Until these holds are removed, you will not be able to enroll during registration. The CS Department **cannot** remove these holds and you will need to follow instructions to meet the requirements by clicking the  "hold" icon on PAWS and contacting the appropriate office.

### Research Forms

Fully completed and signed mentored research forms for CSC 298, 498, and 499 must be submitted to [cs@tcnj.edu](mailto:cs@tcnj.edu) by the end of the registration window, 4:30 P.M. on April 15, 2022.

### Registration Questions?

Please contact the CS Office ([cs@tcnj.edu](mailto:cs@tcnj.edu)), Dr. Salgian ([salgian@tcnj.edu](mailto:salgian@tcnj.edu)), or your CS academic advisor.