

Computer Science Department

Registration Newsletter for Fall 2019

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

Advising Window: March 11 – April 1

Note: some faculty members may offer advising appointments before the window begins, so check your email.

Registration Window: April 2 - 12

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

A registration hold has been automatically placed on your account and will be removed after the advising meeting. Please watch for an email from your advisor asking you to make an advising appointment. Check PAWS after March 11 to find your advisor, registration date, and appointment time.

**** Visit the CS Department's webpage for a list of advising resources ****

Fall 2019 Options Courses

CSC 320-01: Information Retrieval, M/TH, 9:30 – 10:50 AM, Dr. Yoon

(Prerequisites: CSC 230, 270, and MAT 127, each with a grade of C or higher)

The course discusses theory and practice of searching and retrieval of information. Topics covered include automated indexing, statistical and linguistic models, text classification, Boolean and probabilistic approaches to indexing, query formulation and output ranking, information routing and filtering, topic detection and tracking, as well as measures of retrieval effectiveness, including relevance, utility, miss/false-alarm. Techniques for enhancing retrieval effectiveness including relevance feedback, query reformulation, thesauri, concept extraction, and automated summarization. Experimental retrieval approaches from relevant state-of-the-art conferences (TREC) as well as modern Internet search engines are discussed in detail.

CSC 350-01: Computer Graphics, M/TH, 2:00 – 3:20 PM, Dr. Salgian

(Prerequisites: CSC 230, 270, and MAT 127, each with a grade of C or higher, and MAT 205)

An introduction to the fundamentals underlying the design of computer graphics software. Takes an algorithmic approach to the study of graphic operations required to create a complex scene. The modeling and transformation process is stressed. Topics include 2D and 3D graphic elements and transformations, viewing and clipping, hierarchical modeling, 3D concepts and objects, solid geometry, 3D transformations and the viewing pipeline, visible surface detection, and lighting models.

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

(Prerequisites: CSC 230, 270, and MAT 127, each with a grade of C or higher)

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.

CSC 471-01: Genomics and Bioinformatics, M/TH, 9:30 – 10:50 AM & M, 11:00 AM – 1:50 PM, Dr. Nayak

(Prerequisites: BIO 201, CSC 230, CSC 270, and MAT 127, each with a grade of C or higher)

This course will cover theoretical and practical components of genomics and bioinformatics. The major topics will include mapping and sequencing genomes, sequence alignment of nucleic acids and proteins, haplotype maps, analysis of complex traits, parallel profiling of gene expression, proteomics, phylogenetic analysis, and data mining. The laboratory will begin with the in silico analysis of gene families, continue to the formulation of a testable hypothesis about gene function, writing a mini-grant for peer review, testing of the hypothesis in a model organism, and conclude with a formal presentation of the data generated during the semester. This course is best suited for undergraduates who wish to continue with a career in basic science or biomedical research.

Couldn't get into the 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/2Eqydms>

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Need help choosing your courses for the next few semesters?

Visit the department's advising webpage for more information on course planning, the suggested sequence, and requirements for internships and mentored research projects.

Reminder: all rising CS sophomores must take CSC 199 in Fall 2019

Advising Notes:

Students must register for CSC 298, 498, and 499 research during the registration window.

Seats have been reserved for CS majors in all CS required and CS options courses.

Please contact the CS office, Dr. Salgian, or your advisor if you have any questions.

STEM Building 200
Phone: (609) 771-2268
Email: cs@tcnj.edu

Spring 2019 Computer Science Courses

102-01	T/F	3:30 – 4:50 PM	Staff
<i>(CS majors can take this course, but only as a free elective)</i>			
199-01	W	10:00 – 10:50 AM	Dr. Li
199-02	W	10:00 – 10:50 AM	Dr. Ferdous
199-03	W	10:00 – 10:50 AM	Dr. Yoon
220-01	T/F T	11:00 AM – 12:20 PM 2:00 – 3:20 PM	Dr. Bloodgood
220-02	T/F F	3:30 – 4:50 PM 2:00 – 3:20 PM	Dr. Bloodgood
220-03	M/TH TH	12:30 – 1:50 PM 2:00 – 3:20 PM	Dr. Ferdous
220-04	M/TH M	3:30 – 4:50 PM 2:00 – 3:20 PM	Dr. Ferdous
220-05	T/TH	5:30 – 7:30 PM	Staff
220-06	T/F T	11:00 AM – 12:20 PM 2:00 – 3:20 PM	Staff
230-01	T/F F	9:30 – 10:50 AM 11:00 AM – 12:20 PM	Dr. Li
230-02	T/F T	9:30 – 10:50 AM 11:00 AM – 12:20 PM	Staff
270-01	M/TH TH	9:30 – 10:50 AM 11:00 AM – 12:20 PM	Dr. Salgian
320-01	M/TH	9:30 – 10:50 AM	Dr. Yoon
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	2:00 – 3:20 PM	Dr. Papamichail
335-02	T/F	3:30 – 4:50 PM	Dr. Papamichail
345-01	M/TH TH	12:30 – 1:50 PM 11:00 AM – 12:20 PM	Dr. Yoon
350-01	M/TH	2:00 – 3:20 PM	Dr. Salgian
360-01	T/F	2:00 – 3:20 PM	Dr. Li
415-01	M/TH M	9:30 – 10:50 AM 11:00 AM – 12:20 PM	Dr. Pulimood
435-01	T/F	9:30 – 10:50 AM	Staff
471-01	M/TH M	9:30 – 10:50 AM 11:00 AM – 1:50 PM	Dr. Nayak (Biology)