Computer Science Department
Registration Newsletter for Spring 2020

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

**Advising Window:** October 22 – November 4

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

**Registration Window:** November 5 - 15

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 after the advising meeting.

*You will not be able to register for Spring 2020 courses until you’ve met with your academic advisor, who will remove your hold after the advising meeting.*

Please watch for an email from your academic advisor with instructions for making advising appointments. Check PAWS to find your academic advisor, registration date, and appointment time.

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

**Spring 2020 Options Courses**

**CSC 275-01:** Mini Course (0.5 units) in Computer Science: Introduction to Data Science, M, 5:30 – 6:50 PM, Dr. Ammar

*(Prerequisites: CSC 215, 220, or 250)*

This course does not count for Computer Science credit and can only be taken as a free elective.

With the torrent of large data sets in all domains, the discipline of Data Science has as its objective to transform, visualize and interpret large collections of information to generate knowledge and drive decisions and strategy. In this course we will learn how to go from retrieving data to developing an interactive web-based app to showcase trends and extract knowledge.

**CSC 307-01:** Data Mining and Predictive Modeling, M/TH, 2:00 – 3:20 PM, Dr. Wang

*(Prerequisites: STA 215, and CSC 320 or BIO 352)*

Cross-listed from STA 307.

An introduction to Data Mining and Predictive Modeling. Topics include decision trees, link functions, logistic regression, neural networks, Treenet, support vector machines, support vector machines, text mining, association rules (market basket analysis) and link analysis.

**CSC 315-01:** Database Systems, M/TH, 3:30 – 4:50 PM, Mr. DeGood

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

This course introduces students to the fundamental concepts necessary for designing, using, and implementing database systems. It stresses the fundamentals of database modeling and design, the language and facilities provided by database management systems, and system implementation techniques. A database management system like Oracle or PostgreSQL is utilized to underscore concepts learned in class.

**CSC 380-01:** Artificial Intelligence, M/TH, 2:00 – 3:20 PM, Dr. Yoon

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

The study of how to make the computer behave intelligently. Topics: state-space methods of problem solving, heuristic search techniques, representation and use of knowledge, applications and design of expert systems, natural language processing, vision and image understanding. Design of specifications for intelligent agents is discussed at length and a high level implementation is developed.

**CSC 450-01:** Computer and Network Security, T/F, 9:30 – 10:50 AM, Dr. Li

*(Prerequisites: CSC 360 or permission of instructor)*

This course examines current concepts and practical techniques in computer and network security. In addition to participating in a broad discussion of system security, students gain hands on experience in diagnostic and development techniques. This course leads students to analyze system security areas, such as computer architecture and organization, operating systems, networking, and software design to the security projects developed in this course. This course provides a foundation for future creative endeavors in the field.

**CSC 470-01:** Natural Language Processing, T/F, 3:30 – 4:50 PM, Dr. Bloodgood

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

This course provides an introduction to NLP (Natural Language Processing). The major aspects of automated language processing will be covered, including foundational methods for computational processing of words, syntax, and semantics. In addition, students will be introduced to major applications of NLP technologies, including information extraction, question answering, and machine translation.

**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)*:

### Spring 2020 Computer Science Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Days</th>
<th>Times</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>220-01</td>
<td>M/TH</td>
<td>12:30 – 1:50 PM TH</td>
<td>11:00 AM – 12:20 PM</td>
</tr>
<tr>
<td>220-02</td>
<td>T/TH</td>
<td>5:30 – 7:30 PM</td>
<td>Dr. Russo</td>
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<tr>
<td>220-03</td>
<td>T/TH</td>
<td>2:00 – 3:20 PM TH</td>
<td>3:30 – 4:50 PM</td>
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<tr>
<td>230-01</td>
<td>T/F</td>
<td>11:00 AM – 12:20 PM F</td>
<td>2:00 – 3:20 PM</td>
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<tr>
<td>230-02</td>
<td>M/TH</td>
<td>11:00 AM – 12:20 PM M</td>
<td>12:30 – 1:50 PM</td>
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<tr>
<td>230-03</td>
<td>M/TH</td>
<td>3:30 – 4:50 PM TH</td>
<td>12:30 – 1:50 PM</td>
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<tr>
<td>270-01</td>
<td>M/TH</td>
<td>9:30 – 10:50 AM M</td>
<td>11:00 AM – 12:20 PM</td>
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<tr>
<td>270-02</td>
<td>M/TH</td>
<td>2:00 – 3:20 PM M</td>
<td>12:30 – 1:50 PM</td>
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<tr>
<td>270-03</td>
<td>T/F</td>
<td>11:00 AM – 12:20 PM T</td>
<td>2:00 – 3:20 PM</td>
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<td>270-04</td>
<td>T/F</td>
<td>3:30 – 4:50 PM F</td>
<td>2:00 – 3:20 PM</td>
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<tr>
<td>275-01</td>
<td>M</td>
<td>5:30 – 6:50 PM</td>
<td>Dr. Ammar</td>
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*(CS majors can take this course, but only as a free elective)*

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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 CS juniors **must** take CSC 299 in Spring 2020

**Advising Notes:**

- CS Majors should take CSC 270-01 or 270-02.
- BIO 371: Foundations of Computational Biology counts as a lab science course.
- Completed Mentored Research forms for CSC 298, 498, and 499 must be submitted to the CS office by the end of the registration window, 4:30 P.M. on November 15, 2019.

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

**STEM Building 200**  
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