# SPIRE REGISTRATION INFORMATION for 2024 Fall

## CICS 110
**FOUNDATIONS OF PROGRAMMING**

<table>
<thead>
<tr>
<th>PREREQUISITES</th>
<th>ELIGIBILITY RESTRICTIONS</th>
<th>CLASS NOTES/COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPLETION OF THE R1 GEN ED OR A SCORE OF 15 OR HIGHER ON THE MATH PLACEMENT TEST, PART A, OR ONE OF THE FOLLOWING COURSES: MATH 101&amp;102 OR MATH 104 OR MATH 127 OR MATH 128 OR MATH 131 OR MATH 132.</td>
<td>Open to freshman, sophomore, and junior COMPSCI, INFORM, MATH, PHYSICS, and COMP LINGUISTICS majors.</td>
<td>PREVIOUSLY INFO 190S. STUDENTS ARE NOT PERMITTED TO TAKE CICS 110 AFTER SUCCESSFULLY COMPLETING COMPSCI 121 OR INFO 190S. A PREREQUISITE CHANGE TO ALLOW STUDENTS WITH A MATH PLACEMENT TEST (MPT) SCORE OF 15 OR HIGHER HAS BEEN APPROVED, EFFECTIVE SUMMER 2023. AFTER ELIGIBLE CS, INFORM, MATH, PHYSICS AND COMP LINGUISTICS MAJORS HAVE ENROLLED, WILL OPEN TO FRESHMEN, SOPHOMORE, AND JUNIOR UNDERGRADUATES, IF AVAILABLE SEATS. FRESHMEN, SOPHOMORE, AND JUNIORS IN OTHER MAJORS SHOULD WAIT FOR THE ELIGIBILITY RESTRICTION TO BE REMOVED TO SELF-ENROLL OR ADD TO THE WAITLIST (IF AVAILABLE) AND SHOULD NOT REQUEST AN OVERRIDE. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</td>
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</tbody>
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**STAFF:**
- Meng-Lin Lin
- Unazzeen Farani
- Loe Reilly

## CICS 160
**OBJECT-ORIENTED PROGRAMMING**

<table>
<thead>
<tr>
<th>PREREQUISITES</th>
<th>ELIGIBILITY RESTRICTIONS</th>
<th>CLASS NOTES/COMMENTS</th>
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</thead>
<tbody>
<tr>
<td>CICS 110 (PREVIOUSLY INFO 190S) OR COMPSCI 121 WITH A GRADE OF C OR BETTER.</td>
<td>FRESHMEN, SOPHOMORE AND JUNIOR CS AND INFORM MAJORS ONLY.</td>
<td>PREVIOUSLY INFO 190T. STUDENTS ARE NOT PERMITTED TO TAKE CICS 160 AFTER SUCCESSFULLY COMPLETING COMPSCI 186 OR INFO 190T. USE OF PERSONAL LAPTOP IN CLASS IS REQUIRED. AFTER ELIGIBLE CS AND INFORM MAJORS HAVE ENROLLED, WILL OPEN TO ELIGIBLE NON-CS AND NON-INFORM MAJORS, IF AVAILABLE SEATS. ELIGIBLE NON-MAJORS SHOULD WAIT FOR THE MAJOR ELIGIBILITY RESTRICTION TO BE REMOVED TO SELF-ENROLL OR ADD TO THE WAITLIST (IF AVAILABLE) AND SHOULD NOT REQUEST AN OVERRIDE. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</td>
</tr>
</tbody>
</table>

**STAFF:**
- Jaime Davila
- Cole Reilly

## CICS 208
**DEFEND DEMOCRACY - DIGITAL WORLD**

<table>
<thead>
<tr>
<th>PREREQUISITES</th>
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<tr>
<td>CICS 160 (PREVIOUSLY INFO 190T) WITH A GRADE OF C OR BETTER.</td>
<td>FRESHMEN, SOPHOMORE AND JUNIOR CS AND INFORM MAJORS ONLY.</td>
<td>STUDENTS ARE NOT PERMITTED TO TAKE CICS 210 AFTER SUCCESSFULLY COMPLETING COMPSCI 187. AFTER ELIGIBLE CS AND INFORM MAJORS HAVE ENROLLED, WILL OPEN TO OTHER FRESHMEN, SOPHOMORE, AND JUNIORS, IF AVAILABLE SEATS. ELIGIBLE NON-CS AND NON-INFORM MAJORS SHOULD WAIT FOR THE MAJOR ELIGIBILITY RESTRICTION TO BE REMOVED TO SELF-ENROLL OR ADD TO THE WAITLIST (IF AVAILABLE) AND SHOULD NOT REQUEST AN OVERRIDE. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</td>
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**INSTRUCTOR:**
- Ethan Zuckerbaran

## CICS 210
**DATA STRUCTURES**

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<thead>
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<tr>
<td>CICS 160 (PREVIOUSLY INFO 190T) WITH A GRADE OF C OR BETTER.</td>
<td>FRESHMEN, SOPHOMORE AND JUNIOR CS AND INFORM MAJORS ONLY.</td>
<td>PREVIOUSLY CICS 290A. ERSP PROGRAM PARTICIPANTS ONLY. STUDENTS CAN APPLY DURING THE APPLICATION PERIOD AND BE ACCEPTED TO THE PROGRAM AT THE END OF THEIR FIRST YEAR (SPRING TERM). THEY ARE THEN ENROLLED IN THIS COURSE IN THE FALL OF THE SECOND YEAR. STUDENTS DO NOT SELF-ENROLL IN THIS COURSE. PROGRAM PARTICIPANTS INTERESTED IN ENROLLING SHOULD CONTACT INSTRUCTOR WHO WILL PROVIDE CICS ACADEMIC PROGRAMS WITH A LIST FOR REGISTRATION.</td>
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</table>

**INSTRUCTORS:**
- Mordecai Golin
- Timothy Richards

## CICS 237
**INTRODUCTION TO THE DISCIPLINE**

<table>
<thead>
<tr>
<th>PREREQUISITES</th>
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<tbody>
<tr>
<td>CICS 210 (OR COMPSCI 187) WITH A GRADE OF C OR BETTER AND BASIC MATH SKILLS (R1).</td>
<td>FRESHMEN AND SOPHOMORE BS-CS MAJORS ONLY.</td>
<td>NO OPTION FOR PASS/FAIL. THIS COURSE HAS A REQUIRED LAB SECTION AND COUNTS TOWARD THE CS LAB SCIENCE REQUIREMENT FOR THE BS-CS. THIS OFFERING IS OPEN TO SOPHOMORE AND FRESHMEN BS-CS MAJORS ONLY. AFTER SOPHOMORE AND FRESHMEN REGISTER, PROGRAM WILL CONSIDER OPENING TO JUNIOR BS-CS MAJORS, IF AVAILABLE SEATS. JUNIOR BS-CS MAJORS SHOULD WAIT FOR ELIGIBILITY TO OPEN TO SELF-ENROLL OR ADD TO THE WAITLIST (IF AVAILABLE) AND SHOULD NOT REQUEST AN OVERRIDE. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</td>
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</table>

**INSTRUCTOR:**
- Neena Thota

## CICS 256
**MAKE: PHYSICAL COMPUTING**

<table>
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<tr>
<td>CICS 210 (OR COMPSCI 187) WITH A GRADE OF C OR BETTER AND BASIC MATH SKILLS (R1).</td>
<td>FRESHMEN AND SOPHOMORE BS-CS MAJORS ONLY.</td>
<td>DEPARTMENT CONSENT REQUIRED: OPEN TO INCOMING CS AND INFORM TRANSFER STUDENTS ONLY.</td>
</tr>
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</table>

**INSTRUCTORS:**
- Hui Wang

## CICS 291T
**S-CICS TRANSFER SUCCESS**

<table>
<thead>
<tr>
<th>PREREQUISITES</th>
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<tr>
<td>CICS 160 (PREVIOUSLY INFO 190T OR COMPSCI 186 OR COMPSCI 187) WITH A GRADE OF C OR BETTER.</td>
<td>FRESHMEN, SOPHOMORE, AND JUNIOR CS AND INFORM MAJORS ONLY.</td>
<td>SENIORS AND STUDENTS IN OTHER MAJORS MAY BE CONSIDERED IF AVAILABLE SEATS. STUDENTS FROM OTHER MAJORS MAY BENEFIT FROM THIS COURSE. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</td>
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**STAFF:**
- Emma Anderson

## CICS 298A
**P-LEADSHIP: COMMUNCTING-EXPERTISE**

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<thead>
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<td>SENIORS AND STUDENTS IN OTHER MAJORS MAY BE CONSIDERED IF AVAILABLE SEATS. STUDENTS FROM OTHER MAJORS MAY BENEFIT FROM THIS COURSE. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</td>
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**STAFF:**
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<th>Course</th>
<th>Section Code</th>
<th>Faculty</th>
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<tbody>
<tr>
<td>CICS 305</td>
<td>SOC ISS IN CMPTNG</td>
<td>Shiting Lan, Ghazaleh Parvini, Justin Obara, Samuel Pulford, Christina Sucicelli, Michelle Trim</td>
<td>CS MAJORS: ENGLWRIT 112 WITH A GRADE OF C OR BETTER (OR ENGLISH WRITING WAIVER) AND COMPSCI 220, COMPSCI 230 AND EITHER COMPSCI 240 OR COMPSCI 250. INFORMATICS MAJORS: ENGLWRIT 112 WITH A GRADE OF C OR BETTER (OR ENGLISH WRITING WAIVER) AND INFO 248. ODD LECTS: SENIOR AND JUNIOR CS MAJORS ONLY. LIMITED TO CS AND INFORMATICS PRIMARY MAJORS ONLY. CS AND INFORMATICS SECONDARY MAJORS MUST TAKE JUNIOR YEAR WRITING COURSE WITHIN PRIMARY MAJOR DEPARTMENT. LECT 01-02 MEET TOGETHER; LECT 03-04, ETC. SPREE WILL ONLY RECOGNIZE THE ENGLWRIT 112 PREREQUISITE WHEN TAKEN AT UMASS AMHERST. ELIGIBLE MAJORS WITH AP CREDIT, TRANSFER CREDIT, OR A WAIVER FOR ENGLWRIT 112 WHO MEET THE OTHER STATED PREREQUISITES WILL NEED ASSISTANCE TO ENROLL VIA THE OVERRIDE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</td>
</tr>
<tr>
<td>CICS 580</td>
<td>INTRO NUMRCL CMPTNG W/PYTHON</td>
<td>Ali Montazerighaem</td>
<td>ALL FRESHMEN, SOPHOMORES, AND JUNIORS ONLY.</td>
</tr>
<tr>
<td>CICS 598T</td>
<td>P-CPT</td>
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<tr>
<td>COMPSCI 119</td>
<td>INTRO HS PHU-HHAMMIN</td>
<td>Allison Poh</td>
<td>COMPSCI 121 WITH A GRADE OF B OR BETTER, OR CICS 180 (PREVIOUSLY INFO 190T OR COMPSCI 186 OR CICS 210) WITH A GRADE OF C OR BETTER. FRESHMEN, SOPHOMORES, AND JUNIORS ONLY.</td>
</tr>
<tr>
<td>COMPSCI 198C</td>
<td>P-INH U-C PHU-HHAMMIN LAKUGARU</td>
<td>Meng-Lien Lin,rimmy Hcinaras</td>
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<tr>
<td>COMPSCI 220</td>
<td>PSNR METHODOLOGY</td>
<td>Marius Minea</td>
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<tr>
<td>COMPSCI 230</td>
<td>CMPTR SYS-PRINC</td>
<td>Phuthipong Boovkreadtroy, Meng-Chieh Chu</td>
<td>CICS 210 (OR COMPSCI 187) WITH A GRADE OF C OR BETTER.</td>
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<tr>
<td>COMPSCI 240</td>
<td>RISING UNDER UNCERTAINTY</td>
<td>Shiting Lan, Ghazaleh Parvini</td>
<td>CICS 180 (PREVIOUSLY INFO 190T OR COMPSCI 187 OR CICS 210) AND MATH 132, BOTH WITH A GRADE OF C OR BETTER.</td>
</tr>
<tr>
<td>CICS 305</td>
<td>SOC ISS IN CMPTNG</td>
<td>Shiting Lan, Ghazaleh Parvini, Justin Obara, Samuel Pulford, Christina Sucicelli, Michelle Trim</td>
<td>CS MAJORS: ENGLWRIT 112 WITH A GRADE OF C OR BETTER (OR ENGLISH WRITING WAIVER) AND COMPSCI 220, COMPSCI 230 AND EITHER COMPSCI 240 OR COMPSCI 250. INFORMATICS MAJORS: ENGLWRIT 112 WITH A GRADE OF C OR BETTER (OR ENGLISH WRITING WAIVER) AND INFO 248. ODD LECTS: SENIOR AND JUNIOR CS MAJORS ONLY. LIMITED TO CS AND INFORMATICS PRIMARY MAJORS ONLY. CS AND INFORMATICS SECONDARY MAJORS MUST TAKE JUNIOR YEAR WRITING COURSE WITHIN PRIMARY MAJOR DEPARTMENT. LECT 01-02 MEET TOGETHER; LECT 03-04, ETC. SPREE WILL ONLY RECOGNIZE THE ENGLWRIT 112 PREREQUISITE WHEN TAKEN AT UMASS AMHERST. ELIGIBLE MAJORS WITH AP CREDIT, TRANSFER CREDIT, OR A WAIVER FOR ENGLWRIT 112 WHO MEET THE OTHER STATED PREREQUISITES WILL NEED ASSISTANCE TO ENROLL VIA THE OVERRIDE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</td>
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<td>Phuthipong Boovkreadtroy, Meng-Chieh Chu</td>
<td>CICS 210 (OR COMPSCI 187) WITH A GRADE OF C OR BETTER.</td>
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<tr>
<td>COMPSCI 240</td>
<td>RISING UNDER UNCERTAINTY</td>
<td>Shiting Lan, Ghazaleh Parvini</td>
<td>CICS 180 (PREVIOUSLY INFO 190T OR COMPSCI 187 OR CICS 210) AND MATH 132, BOTH WITH A GRADE OF C OR BETTER.</td>
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<td>Course Code</td>
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<td>Prerequisites</td>
<td>Eligibility Restrictions</td>
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<tr>
<td>COMPSCI 250</td>
<td>INTRO TO COMPUTATION</td>
<td>CICS 160 (PREVIOUSLY INFO 190T OR COMPSCI 187 OR ECS 241 OR CICS 210) AND MATH 132, BOTH WITH A GRADE OF C OR BETTER</td>
<td>CS AND MATH MAJORS ONLY.</td>
</tr>
<tr>
<td>COMPSCI 311</td>
<td>INTRO TO ALGORITHMS</td>
<td>CICS 210 (OR COMPSCI 187) AND COMPSCI 250 (OR MATH 450), BOTH WITH A GRADE OF C OR BETTER.</td>
<td>JUNIOR AND SENIOR CS MAJORS ONLY.</td>
</tr>
<tr>
<td>COMPSCI 320</td>
<td>INTRO TO SOFTWARE ENGINEERING</td>
<td>COMPSCI 220 WITH A GRADE OF C OR BETTER.</td>
<td>JUNIOR AND SENIOR CS MAJORS ONLY.</td>
</tr>
<tr>
<td>COMPSCI 325</td>
<td>INTRO TO HUMAN-LANGUAG INTERACT IN</td>
<td>CS MAJORS: CICS 210 (OR COMPSCI 187) WITH A GRADE OF C OR BETTER; INFORM MAJORS: INFO 248 AND CICS 160 (PREVIOUSLY INFO 190T OR COMPSCI 186 OR COMPSCI 187), BOTH WITH A GRADE OF C OR BETTER.</td>
<td>JUNIOR AND SENIOR CS AND INFORM MAJORS ONLY.</td>
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<tr>
<td>COMPSCI 326</td>
<td>WEB PROGRAMMING</td>
<td>COMPSCI 220 (OR COMPSCI 230) WITH A GRADE OF C OR BETTER.</td>
<td>JUNIOR AND SENIOR CS AND INFORM MAJORS ONLY.</td>
</tr>
<tr>
<td>COMPSCI 328</td>
<td>MOBILE HEALTH IN DEMENTIA/FLAIL T CD</td>
<td>CS MAJORS: CICS 210 (OR COMPSCI 187) WITH A GRADE OF C OR BETTER; INFORM MAJORS: INFO 248 AND CICS 160 (PREVIOUSLY INFO 190T OR COMPSCI 186 OR COMPSCI 187), BOTH WITH A GRADE OF C OR BETTER.</td>
<td>JUNIOR AND SENIOR CS AND INFORM MAJORS ONLY.</td>
</tr>
<tr>
<td>COMPSCI 335</td>
<td>PHYSICAL SCIENCE OF DATA MGMT</td>
<td>COMPSCI 220 (OR COMPSCI 230) WITH A GRADE OF C OR BETTER.</td>
<td>JUNIOR AND SENIOR CS MAJORS ONLY.</td>
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<tr>
<td>COMPSCI 345</td>
<td>PRACT &amp; APPLS OF DATA MGMT</td>
<td>CS MAJORS: CICS 210 (OR COMPSCI 187) WITH A GRADE OF C OR BETTER; INFORM MAJORS: INFO 248 AND CICS 160 (PREVIOUSLY INFO 190T OR COMPSCI 186 OR COMPSCI 187), BOTH WITH A GRADE OF C OR BETTER.</td>
<td>JUNIOR AND SENIOR CS AND INFORM MAJORS ONLY.</td>
</tr>
<tr>
<td>COMPSCI 360</td>
<td>INTRO COMPUTER/NETWRK SECURITY</td>
<td>COMPSCI 230 WITH GRADE OF C OR BETTER.</td>
<td>JUNIOR AND SENIOR CS MAJORS ONLY.</td>
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<tr>
<td>COMPSCI 377</td>
<td>Operating Systems</td>
<td>COMPSCI 230 WITH A GRADE OF C OR BETTER.</td>
<td>JUNIOR AND SENIOR CS MAJORS ONLY.</td>
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<tr>
<td>COMPSCI 410</td>
<td>Compiler Techniques</td>
<td>COMPSCI 200 AND COMPSCI 260 (OR MATH 420), BOTH WITH A GRADE OF C OR BETTER.</td>
<td>JUNIOR AND SENIOR CS MAJORS ONLY.</td>
</tr>
<tr>
<td>COMPSCI 420</td>
<td>Software Engineering Programming</td>
<td>SUP I WRAP ENGINHEIRNG PHIL MUMI</td>
<td>Matthew Rattigan</td>
</tr>
<tr>
<td>COMPSCI 429</td>
<td>Software Engineering Programming</td>
<td>SUP I WRAP ENGINHEIRNG PHIL MUMI</td>
<td>Gordon Anderson, Yuryl Brun, Heather Conway, Jaime Davila</td>
</tr>
<tr>
<td>COMPSCI 445</td>
<td>Information Systems</td>
<td>COMPSCI 220 (OR COMPSCI 230) AND COMPSCI 311 AND COMPSCI 345, ALL WITH GRADE OF C OR BETTER.</td>
<td>JUNIOR AND SENIOR CS MAJORS ONLY.</td>
</tr>
<tr>
<td>COMPSCI 446</td>
<td>Search Engines</td>
<td>COMPSCI 240 OR COMPSCI 285 WITH A GRADE OF C OR BETTER.</td>
<td>JUNIOR AND SENIOR CS MAJORS ONLY.</td>
</tr>
<tr>
<td>COMPSCI 453</td>
<td>Computer Networks</td>
<td>COMPSCI 220 (OR COMPSCI 377) WITH A GRADE OF C OR BETTER.</td>
<td>JUNIOR AND SENIOR CS MAJORS ONLY.</td>
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SPREREQUISITES INFORMATION for 2024 Fall

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<tr>
<td>COMPSCI 377</td>
<td>Operating Systems</td>
<td>COMPSCI 230 WITH A GRADE OF C OR BETTER.</td>
<td>JUNIOR AND SENIOR CS MAJORS ONLY.</td>
<td>STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</td>
</tr>
<tr>
<td>COMPSCI 410</td>
<td>Compiler Techniques</td>
<td>COMPSCI 200 AND COMPSCI 260 (OR MATH 420), BOTH WITH A GRADE OF C OR BETTER.</td>
<td>JUNIOR AND SENIOR CS MAJORS ONLY.</td>
<td>MBT 123 WITH COMPSCI 310. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</td>
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<td>Search Engines</td>
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<tr>
<td>COMPSCI 461</td>
<td>Secure Distributed Systems</td>
<td>CS MAJORS ONLY.</td>
<td>The course is based on a flipped classroom and uses a hybrid instruction model. Some of the course content is delivered online. However, students are required to attend weekly class meetings. Senior and junior CSE/ENG majors with appropriate background, if available seats. Students needing special permission must request overrides via the online form: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</td>
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<tr>
<td>COMPSCI 485</td>
<td>Applications of NLP</td>
<td>JUNIOR AND SENIOR CS AND LINGUISTICS MAJORS ONLY.</td>
<td>Previously COMPSCI 490. Students from other disciplines will be considered as well if available seats. Students needing instructor permission must request overrides via the online form: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</td>
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<tr>
<td>COMPSCI 490Q</td>
<td>Quantum Information Science</td>
<td>JUNIOR AND SENIOR CS AND INFORM MAJORS ONLY.</td>
<td>After junior and senior CS and Inform majors have enrolled, this course will open to junior and senior Physics, Math, and Engineering majors who should wait for the course to open to self-enroll. Math 233, COMPSCI 250 and 311 are helpful but not necessary. Physics majors with a C or better in PHYSICS 281 or PHYSICS 287 may request an override to use either as an alternate for the COMPSCI 240 prerequisite. Students needing special permission must request overrides via the online form: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</td>
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<tr>
<td>COMPSCI 514</td>
<td>Algorithms, Game Theory, Fairness</td>
<td>LEC 01: JUNIOR AND SENIOR CS MAJORS ONLY.</td>
<td>Preceding COMPSCI 508T. LECT 01 for undergrads; LEC 02 for grad. Students should be familiar with basic concepts of probability theory (expectation, the law of total probability), linear optimization (syntax, what is a primal and a dual), and basic algebra (what is a vector space). Seats held in LEC 02 for incoming grad student registration. Students needing special permission must request overrides via the online form: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</td>
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<tr>
<td>COMPSCI 515</td>
<td>Algorithms, Game Theory, Fairness</td>
<td>LEC 01: JUNIOR AND SENIOR CS MAJORS ONLY.</td>
<td>LECT 01 for undergrads; LEC 02 for grad. Seats held in LEC 02 for incoming grad student registration. Students needing special permission must request overrides via the online form: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</td>
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<tr>
<td>COMPSCI 520</td>
<td>Theory and Practice-Softeng</td>
<td>LEC 01: JUNIOR AND SENIOR CS MAJORS ONLY.</td>
<td>LEC 01 for undergrads; LEC 02 for grad. Seats held in LEC 02 for incoming grad student registration. Some background in machine learning, signal processing, embedded systems, physical computing is helpful. Instructor permission for students with alternate prerequisites. Students needing special permission must request overrides via the online form: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</td>
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<td>COMPSCI 528</td>
<td>Mobile and Ubiquitous Computing</td>
<td>LEC 01: JUNIOR AND SENIOR CS MAJORS ONLY.</td>
<td>LEC 01 for undergrads; LEC 02 for grad. Seats held in LEC 02 for incoming grad student registration. Some background in machine learning, signal processing, embedded systems, physical computing is helpful. Instructor permission for students with alternate prerequisites. Students needing special permission must request overrides via the online form: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</td>
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<tr>
<td>COMPSCI 532</td>
<td>Systems for Data Science</td>
<td>LEC 01: JUNIOR AND SENIOR CS MAJORS ONLY.</td>
<td>LEC 01 for undergrads; LEC 02 for grad. Seats held in LEC 02 for incoming grad student registration. Some background in machine learning, signal processing, embedded systems, physical computing is helpful. Instructor permission for students with alternate prerequisites. Students needing special permission must request overrides via the online form: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</td>
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<tr>
<td>COMPSCI 560</td>
<td>Intro Computer Networking Security</td>
<td>LEC 01: JUNIOR AND SENIOR CS MAJORS ONLY.</td>
<td>LEC 01 for undergrads; LEC 02 for grad. Seats held in LEC 02 for incoming grad student registration. Some background in machine learning, signal processing, embedded systems, physical computing is helpful. Instructor permission for students with alternate prerequisites. Students needing special permission must request overrides via the online form: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</td>
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SPREREQUISITE INFORMATION for 2024 Fall
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<tr>
<td><strong>COMPSCI 563</strong>&lt;br&gt;INTERNET LAW AND POLICY&lt;br&gt;Mark Lajoie</td>
<td>UNDERGRADUATES: COMPSCI 311 OR COMPSCI 383 OR COMPSCI 360 (PREVIOUSLY 469) WITH C OR BETTER.</td>
<td>UNIV LEC 01: JUNIOR AND SENIOR CS MAJORS ONLY. UNIV LEC 02: COMPSCI AND ECE GRADUATE STUDENTS ONLY. UWW LEC 01: MS-CMPSCI GRADUATE STUDENTS ONLY.</td>
<td>UNIV LEC 01 FOR UNDERGRADUATES; UNIV LEC 02 FOR ELIGIBLE GRADS; SEATS HELD IN LEC 02 FOR INCOMING STUDENT REGISTRATION. UWW LEC 01 SYNCHRONOUS REMOTE ATTENDANCE AT SPECIFIED MEETING TIMES IS REQUIRED; FOR MS-CMPSCI STUDENTS AND OTHER GRADUATE STUDENTS (EXCEPT MS-ECE) WITH INSTRUCTOR PERMISSION. PHDS OR ANY STUDENT WITH A TUITION WAIVER CANNOT ENROLL IN A UWW SECTION. STUDENTS NEEDING SPECIAL PERMISSION FOR EITHER UNIVERSITY SECTION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</td>
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<tr>
<td><strong>COMPSCI 575</strong>&lt;br&gt;COMBINATORICS AND GRAPH THEORY&lt;br&gt;Mark Wilson</td>
<td>UNDERGRADUATES: COMPSCI 200 (OR MATH 455) WITH A GRADE OF B OR BETTER.</td>
<td>LEC 01: JUNIOR AND SENIOR UNDERGRADUATES ONLY. LEC 02: MS-CMPSCI STUDENTS ONLY.</td>
<td>CROSS-LISTED WITH MATH 513. LECT 01 FOR UNDERGRADS; LECT 02 FOR GRADS. IF NOT MEETING PREREQUISITES, STUDENTS MUST SEEK INSTRUCTOR PERMISSION VIA THE OVERRIDE PROCESS. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</td>
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<tr>
<td><strong>COMPSCI 576</strong>&lt;br&gt;GAME PROGRAMMING&lt;br&gt;Evangelos Kalogerakis</td>
<td>UNDERGRADUATES: COMPSCI 220 AND MATH 235 BOTH WITH A GRADE OF C OR BETTER, AND COMPSCI 311 WITH A GRADE OF C OR BETTER (OR COMPSCI 250 WITH A GRADE OF B+ OR BETTER).</td>
<td>LECT 01: JUNIOR AND SENIOR CS MAJORS ONLY. LECT 02: MS-CMPSCI STUDENTS ONLY.</td>
<td>PREVIOUSLY COMPSCI 590G. LECT 01 FOR UNDERGRADS; LECT 02 FOR GRADS: U + UWW LECT 01 OPEN TO MS-CMPSCI ONLINE PROGRAM. COURSE FULLY ONLINE, ASYNCHRONOUS WITH OPTIONAL SYNCHRONOUS LIVE LECTURES 7/TH 8:30-9:45AM. SEATS HELD IN LEC 02 FOR INCOMING GRADUATE STUDENT REGISTRATION. STUDENTS NEEDING INSTRUCTOR PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</td>
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<tr>
<td><strong>COMPSCI 589</strong>&lt;br&gt;MACHINE LEARNING&lt;br&gt;Justin Domke</td>
<td>UNDERGRADUATES:</td>
<td>UNIV LEC 01: JUNIOR AND SENIOR CS MAJORS ONLY. UNIV LEC 02: MS-CMPSCI GRADUATE STUDENTS ONLY. UWW LEC 01: ONLINE MS-CMPSCI GRADUATE PROGRAM STUDENTS ONLY.</td>
<td>ONLINE. LECT 01 FOR UNDERGRADS; LECT 02 FOR GRADS; UWW LEC 01 FOR ONLINE MS-CMPSCI ONLY; SEATS HELD IN LEC 02 FOR INCOMING GRAD STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</td>
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<td><strong>COMPSCI 590X</strong>&lt;br&gt;DECISION MACHINERY AND DATA SCIENTIFIC THINKING&lt;br&gt;Jayant Tanega</td>
<td>UNDERGRADUATES: EITHER COMPSCI 240 (OR STATISTICS 515) AND CICS 210 (OR COMPSCI 187) BOTH WITH A GRADE OF C OR BETTER OR [INFO 348 WITH A GRADE OF C OR BETTER]</td>
<td>LECT 01: JUNIOR AND SENIOR CS AND INFORM MAJORS ONLY. LECT 02: MS-CMPSCI STUDENTS ONLY.</td>
<td>LECT 01 FOR UNDERGRADS; LECT 02 FOR GRADS. SEATS HELD FOR INCOMING GRADUATE STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</td>
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<tr>
<td><strong>COMPSCI 596E</strong>&lt;br&gt;IS-ML APPLIED TO CHILD RESCUE&lt;br&gt;David Jensen</td>
<td>UNDERGRADUATES: [MATH 545 AND STATISTICS 315 (PREVIOUSLY STATISTICS 515) AND COMPSCI 240, ALL WITH A GRADE OF C OR BETTER.] OR [MATH 545 WITH A GRADE OF C OR BETTER AND COMPSCI 240 WITH A GRADE OF B+ OR BETTER.] OR [MATH 235 AND MATH 233, BOTH WITH A GRADE OF B+ OR BETTER, AND STATISTICS 315 (PREVIOUSLY STATISTICS 515) AND COMPSCI 240, BOTH WITH A GRADE OF C OR BETTER.] OR [MATH 235 AND MATH 233 AND COMPSCI 240, ALL WITH A GRADE OF B+ OR BETTER.]</td>
<td>UNIV LEC 01: JUNIOR AND SENIOR CS MAJORS ONLY. UNIV LEC 02: MS-CMPSCI GRADUATE STUDENTS ONLY. UWW LEC 01: ONLINE MS-CMPSCI GRADUATE PROGRAM STUDENTS ONLY.</td>
<td>INSTRUCTOR PERMISSION REQUIRED. CS SENIOR OR CS GRADUATE STUDENT WITH A MACHINE LEARNING BACKGROUND. WE EXPECT HIGH GRADES IN COMPSCI 589 OR COMPSCI 682. PHDS OR ANY STUDENT WITH A TUITION WAIVER CANNOT ENROLL IN A UWW SECTION. SYNCHRONOUS MEETINGS ARE REQUIRED. CONTACT INSTRUCTOR FOR CONSIDERATION AT <a href="mailto:brian@cs.umass.edu">brian@cs.umass.edu</a>.</td>
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<tr>
<td><strong>COMPSCI 597</strong>&lt;br&gt;RESEARCH METHODS-EMPIRICAL CS&lt;br&gt;David Jensen</td>
<td>UNDERGRADUATES:</td>
<td>CMPS/SCI GRADUATE STUDENTS ONLY.</td>
<td>PREVIOUSLY COMPSCI 597. SEATS HELD FOR INCOMING GRADUATE REGISTRATION. UNDERGRADUATE CHC CS MAJORS WITH INSTRUCTOR, HPD, AND UPD PERMISSION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</td>
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<td><strong>COMPSCI 598</strong>&lt;br&gt;COMPILED TECHNIQUES&lt;br&gt;Hui Guan</td>
<td>UNDERGRADUATES: EITHER COMPSCI 311 EXPECTED OF INCOMING CS GRADUATE STUDENTS.</td>
<td>CMPS/SCI GRADUATE STUDENTS ONLY.</td>
<td>SENIOR CS MAJORS MAY TAKE FOR CREDIT IF PREREQUISITES FOR COMPSCI 410 ARE MET WITH PERMISSION OF INSTRUCTOR. MEETS WITH COMPSCI 410. SEATS HELD FOR INCOMING GRAD STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</td>
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<td><strong>COMPSCI 599</strong>&lt;br&gt;ADVANCED ALGORITHMS&lt;br&gt;Hung Le</td>
<td>UNDERGRADUATES: COMPSCI 311 OR COMPSCI 383 OR COMPSCI 360 (PREVIOUSLY 469) WITH C OR BETTER.</td>
<td>CMPS/SCI GRADUATE STUDENTS ONLY.</td>
<td>MATHEMATICAL MATURITY WITH KNOWLEDGE OF ALGORITHMS AT THE LEVEL OF COMPSCI 311 EXPECTED OF INCOMING CS GRADUATE STUDENTS. INSTRUCTOR PERMISSION REQUIRED FOR UNDERGRADUATE CS MAJORS CLEARED BY THE UPD. IF AVAILABLE SEATS. SEATS HELD FOR INCOMING GRAD STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</td>
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<td>COMPSCI 577</td>
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<tr>
<td>COMPSCI 546</td>
<td>INFORMATION RETRIEVAL</td>
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<td>CMPSCI GRADUATE STUDENTS ONLY.</td>
<td>INSTRUCTOR PERMISSION REQUIRED FOR SENIOR CS MAJORS WHO MEET THE PREREQUISITES OF COMPSCI 445 OR 446 WITH A GRADE OF C OR BETTER AND CLEARED BY THE UD. SEATS HELD FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</td>
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<td>COMPSCI 548</td>
<td>QUANTUM INFORMATION SYSTEMS</td>
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<td>CMPSCI GRADUATE STUDENTS ONLY.</td>
<td>PREVIOUSLY COMPSCI 690Q. FAMILIARITY WITH LINEAR ALGEBRA (MATH 235) AND CALCULUS (MATH 131/132). KNOWLEDGE OF SOME PROBABILITY AND DISCRETE MATH. KNOWLEDGE OF QUANTUM MECHANICS IS NOT A PREREQUISITE. QUANTUM CONCEPTS INTRODUCED AS NEEDED. KNOWLEDGE OF ALGORITHMS AND COMPLEXITY ARE NOT PREREQUISITES. ALSO, INTRODUCED AS NEEDED. SEATS HELD FOR INCOMING GRAD STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</td>
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<td>COMPSCI 553</td>
<td>COMPUTER NETWORKING</td>
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<td>CMPSCI GRADUATE STUDENTS ONLY.</td>
<td>ECE GRADUATE STUDENTS IF AVAILABLE SEATS. SEATS HELD FOR INCOMING GRAD STUDENT REGISTRATION. STUDENTS NEEDING INSTRUCTOR PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</td>
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<td>COMPSCI 555</td>
<td>PERFORMANCE EVALUATION</td>
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<td>CMPSCI GRADUATE STUDENTS ONLY.</td>
<td>UNDERGRADUATE OR GRADUATE COURSE ON PROBABILITY THEORY ASSUMED. SEATS HELD FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</td>
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<td>COMPSCI 560</td>
<td>ADV INFORMATION ASSURANCE</td>
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<td>CMPSCI GRADUATE STUDENTS ONLY.</td>
<td>INSTRUCTOR PERMISSION REQUIRED FOR UNDERGRADUATE CS MAJORS WHO MEET THE PREREQUISITES OF COMPSCI 460 OR COMPSCI 466, OR EQUIVALENT AND CLEARED BY THE UD. SEATS HELD FOR INCOMING GRAD STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</td>
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<td>CMPSCI GRADUATE STUDENTS ONLY.</td>
<td>PREVIOUSLY COMPSCI 690C. MATHEMATICAL MATURETY, BEING COMFORTABLE READING AND WRITING MATHEMATICAL PROOFS. SEATS SAVED FOR INCOMING GRAD STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</td>
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<td>COMPSCI 570</td>
<td>COMPUTER VISION</td>
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<td>CMPSCI GRADUATE STUDENTS ONLY.</td>
<td>PREREQUISITES ARE LINEAR ALGEBRA, CALCULUS 1 AND 2, MULTIVARIATE CALCULUS OR PERMISSION OF INSTRUCTOR. ADVANCED UNDERGRADUATES WITH PERMISSION OF INSTRUCTOR. SEATS HELD FOR INCOMING GRAD STUDENT REGISTRATION. STUDENTS NEEDING INSTRUCTOR PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</td>
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<td>COMPSCI 577</td>
<td>DISTRIBUTED AND OPERATING SYS</td>
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<td>UNIV LEC 01: GRADUATE CMPSCI AND ECE STUDENTS ONLY.</td>
<td>COURSE IS ONLINE. SYNCHRONOUS LECTURES ON MW 2:30-3:45 EDT. LECTURES WILL BE RECORDED FOR VIEWING AT OTHER TIMES. ATTENDANCE AT SYNCHRONOUS IS OPTIONAL. INSTRUCTOR PERMISSION REQUIRED FOR SENIOR CS MAJORS CLEARED BY THE UD. SEATS HELD FOR INCOMING GRAD STUDENT REGISTRATION. UNIV LEC 01: OPEN TO GRADUATE CMPSCI STUDENTS. UNIV LEC 01: ONLINE MS-CMPSCI PROGRAM</td>
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6/27/2024
### SPIRE REGISTRATION INFORMATION for 2024 Fall

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<td>COMPSCI 582</td>
<td>Neural Networks: Modern Intro</td>
<td>UNIV LEC 01: CMPSCI Graduate Students Only.</td>
<td>UNIV LECT 01 FOR ELIGIBLE GRADS; SEATS HELD FOR INCOMING GRAD STUDENT REGISTRATION. UNIV LECT 01 FOR ONLINE MS-CMPSCI PROGRAM STUDENTS ONLY. PHDS OR ANY STUDENT WITH A TUITION WAIVER CANNOT ENROLL IN A UNIV SECTION. REQUIRED BACKGROUND FOR THE COURSE INCLUDES THE FOLLOWING: MULTIVARIATE CALCULUS, LINEAR ALGEBRA, AND PROBABILITY AND STATISTICS. PROGRAMMING IN PYTHON OR EQUIVALENT HIGH LEVEL LANGUAGE. UNDERGRADUATES AND STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ONLINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</td>
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<tr>
<td>COMPSCI 587</td>
<td>Reinforcement Learning</td>
<td>CMPSCI Graduate Students Only.</td>
<td>A STRONG MATHEMATICAL BACKGROUND IN CALCULUS, LINEAR ALGEBRA, STRATEGIES FOR PROVING THEOREMS, AND PROGRAMMING IS ASSUMED AND REQUIRED. IN ADDITION, A BACKGROUND IN MACHINE LEARNING (COMPSCI 589 AND COMPSCI 685) AND ARTIFICIAL INTELLIGENCE (COMPSCI 883) IS ASSUMED. SEATS ARE RESERVED FOR INCOMING GRAD STUDENT REGISTRATION. STUDENTS REQUIRING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ONLINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</td>
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<tr>
<td>COMPSCI 588</td>
<td>Probabilistic Graphical Models</td>
<td>CMPSCI Graduate Students Only.</td>
<td>SEATS HELD FOR INCOMING GRAD STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ONLINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</td>
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<tr>
<td>COMPSCI 589</td>
<td>Machine Learning</td>
<td>CMPSCI Graduate Students Only.</td>
<td>PERMISSION OF INSTRUCTOR FOR UNDERGRADUATES WHO HAVE COMPLETED COMPSCI 589, IF CLEARED BY THE UPD AND AVAILABLE SEATS. SEATS HELD FOR INCOMING GRAD STUDENT REGISTRATION. STUDENTS REQUIRING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ONLINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</td>
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<td>COMPSCI 687</td>
<td>Adv Robot Dynamics and Control</td>
<td>SMPSCI, ECE, AND MIE Graduate Students Only.</td>
<td>PREFERRED TO KNOW LINEAR ALGEBRA, BASIC PHYSICS, AND BASIC CONTROL. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ONLINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</td>
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<td>COMPSCI 690K</td>
<td>S-Hot Topics/SWTWR Engrg Resrch</td>
<td>CMPSCI Graduate Students Only.</td>
<td>FALL 2024 OFFERING 1 CREDIT ONLY. CS UNDERGRADUATES WITH PERMISSION OF INSTRUCTOR. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ONLINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</td>
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<tr>
<td>COMPSCI 692P</td>
<td>S-Hot Topics/SWTWR Engrg Resrch</td>
<td>CMPSCI Graduate Students Only.</td>
<td>STUDENTS SHOULD HAVE TAKEN COMPSCI 690U COMPUTATIONAL BIOLOGY AND BIOINFORMATICS, OR HAVE COMPARABLE BACKGROUND. PHD STUDENTS FROM RELATED DISCIPLINES WITH INSTRUCTOR PERMISSION. STUDENTS REQUIRING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ONLINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</td>
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<tr>
<td>COMPSCI 692X</td>
<td>S-Hot Topics/SWTWR Engrg Resrch</td>
<td>CMPSCI Graduate Students Only.</td>
<td>MAY BE REPEATED FOR CREDIT ONCE. SECT 01 (9/4-10/21/24); SECT 02 (10/23-12/9/24). STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ONLINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</td>
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<td>COMPSCI 701</td>
<td>Adv Topics in Lmpsci</td>
<td>DOCTORAL, MASTERS GRADUATE CMPSCI STUDENTS ONLY.</td>
<td>THE 3 CREDIT OPTION IS FOR THE SECOND SEMESTER OF A TWO-SEMESTER SEQUENCE, 701Y FOLLOWED BY 701. THE 6 CREDIT OPTION IS FOR A PROJECT THAT WILL BE COMPLETED OVER TWO SEMESTERS WITH ENROLLMENT IN ONLY ONE SEMESTER. REQUEST OVERRIDE VIA THE SPECIAL ON-LINE FORM: <a href="https://www.cics.umass.edu/content/registration">https://www.cics.umass.edu/content/registration</a>.</td>
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<tr>
<td>Course Code</td>
<td>Course Name</td>
<td>Prerequisites</td>
<td>Eligibility Restrictions</td>
<td>Class Notes/Comments</td>
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<td>COMPSCI 701Y</td>
<td>ADV TOPICS IN COMPSCI (1ST SEM)</td>
<td>DOCTORAL, MASTERS COMPSCI GRADUATE STUDENTS ONLY.</td>
<td>INDICATES THE FIRST SEMESTER OF A TWO-SEMESTER SEQUENCE, 701Y (3 CREDITS) FOLLOWED BY 701 (3 CREDITS), WITH GRADE FOR BOTH ASSIGNED AT THE END. REQUEST OVERRIDE VIA THE SPECIAL ON-LINE FORM: <a href="https://www.cics.umass.edu/content/registration">https://www.cics.umass.edu/content/registration</a>.</td>
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<td>COMPSCI 879</td>
<td>TEACH ASISTS-TOMORROW'S FACULTY</td>
<td>COURSE IS ASSOCIATED WITH CICS TA EMPLOYMENT. REQUIRED COMPONENT OF TA CONTRACT. REGISTRATION WILL BE PROCESSED BY THE ASSOCIATE DIRECTOR GRADUATE PROGRAMS AFTER SIGNED AND APPROVED CONTRACT. OPEN TO CICS TEACHING ASSISTANTS ONLY.</td>
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<td>COMPSCI 891M</td>
<td>S-THEORY OF COMPUTATION</td>
<td>DOCTORAL, MASTERS GRADUATE STUDENTS ONLY.</td>
<td>MAY BE REPEATED FOR CREDIT UP TO 6 TIMES. UNDERGRADUATES AND OTHER STUDENTS NOT MEETING ELIGIBILITY MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</td>
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<td>COMPSCI 899</td>
<td>PHD DISSERTATION</td>
<td>DOCTORAL, MASTERS GRADUATE STUDENTS ONLY.</td>
<td>COURSE OPEN ONLY TO CS GRADUATE STUDENTS WHO HAVE ACHIEVED CANDIDACY. REQUEST ENROLLMENT VIA THE SPECIAL ON-LINE FORM: <a href="https://www.cics.umass.edu/content/registration">https://www.cics.umass.edu/content/registration</a>.</td>
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<td>COMPSCI H311</td>
<td>HHNR COLLOQ: IN PRO ALGORITHM HHNR</td>
<td>CICS 210 (OR COMPSCI 187) AND COMPSCI 250 (OR MATH 455) WITH A GRADE OF C OR BETTER (OR COMPSCI 311 WITH A GRADE OF B OR BETTER).</td>
<td>DEPARTMENT CONSENT REQUIRED. NO OPTION FOR PASS/FAIL. STUDENTS MUST BE ENROLLED IN COMPSCI 311 (OR HAVE COMPLETED COMPSCI 311 WITH A GRADE OF B OR BETTER). INTERESTED STUDENTS MUST REQUEST OVERRIDE VIA ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</td>
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<td>COMPSCI H335</td>
<td>HHNR COLLOQ: INSIDE THE BOX</td>
<td>HHNR COLLOQ: IN PRO ALGORITHM HHNR</td>
<td>DEPARTMENT CONSENT REQUIRED. NO OPTION FOR PASS/FAIL. STUDENTS MUST BE ENROLLED IN COMPSCI 335. INTERESTED STUDENTS MUST REQUEST OVERRIDE VIA ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</td>
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<td>COMPSCI H446</td>
<td>HHNR COLLOQ: SEARCH ENGINES</td>
<td>HHNR COLLOQ: SEARCH ENGINES</td>
<td>DEPARTMENT CONSENT REQUIRED. NO OPTION FOR PASS/FAIL. STUDENTS MUST BE ENROLLED IN COMPSCI 446 (OR HAVE COMPLETED COMPSCI 446 WITH A GRADE OF B OR BETTER). STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</td>
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<td>INFO 101</td>
<td>INTRO TO INFORMATICS</td>
<td>UNDERGRADUATE NON-CS MAJORS ONLY.</td>
<td>CS MAJORS ARE NOT ELIGIBLE FOR THIS COURSE. FOUNDATIONS COURSE FOR THE INFORMATICS MAJOR. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</td>
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<td>INFO 150</td>
<td>MATH FOUND-INFORMATICS</td>
<td>INFORM MAJORS ONLY.</td>
<td>CS AND MATH (STATISTICS) MAJORS ARE NOT ELIGIBLE FOR THIS COURSE. AFTER INFORM MAJORS REGISTER, INFO 150 WILL OPEN TO ALL NON-CS AND NON-MATH/STATS UNDERGRADUATES WHO SHOULD WAIT FOR THE MAJOR ELIGIBILITY RESTRICTION TO BE REMOVED TO SELF-ENROLL OR ADD TO THE WAITLIST (IF AVAILABLE) AND SHOULD NOT REQUEST AN OVERRIDE. ANTICIPATED OPENING DURING THE FIRST WEEK OF CLASSES. R1 MATH USEFUL; NOT ABSOLUTELY REQUIRED. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</td>
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<td>COURSE</td>
<td>PREREQUISITES</td>
<td>ELIGIBILITY RESTRICTIONS</td>
<td>CLASS NOTES/COMMENTS</td>
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<td>INFO 203</td>
<td>A NETWORKED WORLD</td>
<td>CS MAJORS ARE NOT ELIGIBLE FOR THIS COURSE. AFTER INFO MAJORS REGISTER, INFO 203 WILL OPEN TO ALL NON-CS UNDERGRADUATES WHO SHOULD WAIT FOR THE MAJOR ELIGIBILITY RESTRICTION TO BE REMOVED TO SELF-ENROLL OR ADD TO THE WAITLIST (IF AVAILABLE) AND SHOULD NOT REQUEST AN OVERRIDE. ANTICIPATED OPENING DURING THE FIRST WEEK OF CLASSES. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</td>
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<td>INFO 248</td>
<td>CICS 110 (OR CICS 160 OR COMPSCI 119 OR COMPSCI 121) WITH A GRADE OF C OR BETTER, AND EITHER PSYCH 240, OIM 240, STATISTC 240, RES- ECON 212, SOCIO 212, OR STATISTC 515 WITH A GRADE OF C OR BETTER.</td>
<td>INFORM MAJORS ONLY.</td>
<td>PREREQUISITE CHANGE APPROVED BY THE FACULTY SENATE, EFFECTIVE SPRING 2024, TO ALLOW ADDITIONAL PROGRAMMING COURSES. PREVIOUS EXPERIENCE WITH A PROGRAMMING LANGUAGE (OTHER THAN COMPSCI 121) MAY BE CONSIDERED FOR OVERRIDE. BASIC MATHEMATICAL MATURITY (COLLEGE ALGEBRA) IS ASSUMED. BASIC PROBABILITY AND STATISTICS, SUCH AS ONE OF THE COURSES REQUIRED FOR REGISTRATION ON SPIRE IS REQUIRED. THIS COURSE CONSISTS OF TWO LECTURES AND ONE LAB SECTION PER WEEK. EACH LECTURE MEETING INCLUDES A PRESENTATION OF CONCEPTUAL MATERIAL AS WELL AS SOME TIME TO WORK ON IMPLEMENTATION OF THE MATERIAL PRESENTED. IN LAB TIME, STUDENTS RECEIVE DETAILED INSTRUCTION ON THE USE OF SOFTWARE TOOLS TO ANALYZE ACTUAL DATA SETS. READINGS WILL BE ASSIGNED AS PREPARATION FOR EACH CLASS MEETING. A PROJECT WILL BE ASSIGNED DURING THE COURSE. STUDENTS WORK IN PAIRS ON THE PROJECT. THE PROJECT PROVIDES STUDENTS WITH AN OPPORTUNITY TO WORK COLLABORATIVELY TO EXPLORE A TOPIC IN MORE DEPTH. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</td>
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<td>INFO 324</td>
<td>INFO 248 (OR STATISTICS 515 OR COMPSCI 240) WITH A GRADE OF C OR BETTER.</td>
<td>INFORM MAJORS ONLY.</td>
<td>PREVIOUSLY INFO 390W. THIS COURSE IS A CORE IN THE INFORMATICS HEALTH AND LIFE SCIENCES (HLS) CONCENTRATION. KNOWLEDGE OF HEALTH DATA OR MEDICINE IS NOT A PREREQUISITE; THIS COURSE IS DESIGNED TO INTRODUCE THE CONCEPTS OF HEALTH AND MEDICAL DATA. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="http://www.cics.umass.edu/overrides">http://www.cics.umass.edu/overrides</a>.</td>
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<td>INFO 348</td>
<td>INFO 248 AND CICS 160 (OR INFO 190T OR COMPSCI 186 OR COMPSCI 187), BOTH WITH A GRADE OF C OR BETTER.</td>
<td>INFORM MAJORS ONLY.</td>
<td>PREVIOUSLY CICS 397A. LINEAR ALGEBRA (MATH 235) IS HELPFUL BUT NOT REQUIRED. STUDENTS WITH ALTERNATE PROGRAMMING OR STATISTICS BACKGROUND MAY REQUEST OVERRIDE FOR CONSIDERATION. A PREREQUISITE CHANGE HAS BEEN APPROVED BY THE FACULTY SENATE TO REPLACE CICS 210 WITH CICS 160. AFTER INFO MAJORS REGISTER, INFO 345 WILL OPEN TO ALL NON-CS UNDERGRADUATES, IF AVAILABLE SEATS. STUDENTS MEETING PREREQUISITE REQUIREMENTS SHOULDN'T REQUEST AN OVERRIDE. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</td>
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<td>INFO 390C</td>
<td>INFO 248 WITH A GRADE OF C OR BETTER (OR CICS 210 COMPSCI 240 BOTH WITH A GRADE OF C OR BETTER).</td>
<td>JUNIOR AND SENIOR CS AND INFORM MAJORS ONLY.</td>
<td>JUNIOR AND SENIOR NON-CS AND NON-INFORM MAJORS WITH A C OR BETTER IN STATISTC 240 (OR EQUIVALENT) AND ONE OF COMPSCI 119, CICS 108, OR CICS 110 WITH INSTRUCTOR PERMISSION, IF AVAILABLE SEATS. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="http://www.cics.umass.edu/overrides">http://www.cics.umass.edu/overrides</a>.</td>
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