

## SPIRE REGISTRATION INFORMATION for 2021 Fall

### PREREQUISITES

### ELIGIBILITY RESTRICTIONS

### CLASS NOTES/COMMENTS INFORMATION ONLY - DOES NOT AFFECT SPIRE ENROLLMENT.

<p><b>CICS 191FY1</b> FYS - CICS STAFF, Simon Andrews, Md Abdul Aowal, Colette Basiliere, Alyxander Burns, Casey Hayman, William Lee, Marc Liberatore, Laura Melbin, Cooper Sigrist, Pamela Stawasz, Zachary While</p>		FIRST-YEAR CICS STUDENTS ONLY.	REGISTRATION AVAILABLE ONLY DURING NEW STUDENT ORIENTATION.
<p><b>CICS 256</b> MAKE: PHYSICAL COMPUTING Tauhidur Rahman</p>	COMPSCI 187 WITH A GRADE OF 'C' OR BETTER AND BASIC MATH SKILLS (R1).	FRESHMAN AND SOPHOMORE BS-CS MAJORS ONLY.	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 FRESHMAN BS-CS MAJORS ONLY. JUNIORS MAY BE CONSIDERED IF AVAILABLE SEATS. 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> .
<p><b>CICS 290A</b> INTRO RESRCH IN THE DISCIPLINE Neena Thota</p>			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.
<p><b>CICS 291T</b> S-CICS TRANSFER SUCCESS Jason Valladares</p>			FOR FALL 2021, REGISTRATION AVAILABLE AFTER NEW STUDENT ORIENTATION DUE TO COURSE BEING ADDED CLOSER TO CLASS START. DEPARTMENT CONSENT REQUIRED: OPEN TO INCOMING CS AND INFORM TRANSFER STUDENTS ONLY.
<p><b>CICS 298A</b> P-LEADRSHP:COMMUNCTNG-EXPTISE Emma Anderson</p>	COMPSCI 186 OR COMPSCI 187 WITH A GRADE OF C OR BETTER.	FRESHMEN, SOPHOMORE, JUNIOR COMPUTER SCIENCE AND INFORMATICS MAJORS ONLY.	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> .
<p><b>CICS 305</b> SOC ISS IN CMPTNG Siobhan Mei, Justin Obara</p>	CS MAJORS: ENGLWRIT 112 (OR ENGLISH WRITING WAIVER), COMPSCI 220, COMPSCI 230 AND COMPSCI 240 (OR 250), ALL WITH A GRADE OF C OR BETTER. INFORM MAJORS: ENGLWRIT 112 (OR ENGLISH WRITING WAIVER) AND INFO 248, BOTH WITH A GRADE OF C OR BETTER.	ODD LECTS: SENIOR AND JUNIOR CS MAJORS ONLY. EVEN LECTS: SENIOR AND JUNIOR INFORMATICS MAJORS ONLY.	SATISFIES JUNIOR YEAR WRITING REQUIREMENT. ODD LECTURES FOR CS MAJORS; EVEN LECTURES FOR INFORM MAJORS. LECT 01-02 MEET TOGETHER; LECT 03-04...LECT 13-14. SPIRE WILL ONLY RECOGNIZE THE ENGLWRIT112 PREREQUISITE WHEN TAKEN AT UMASS AMHERST. JUNIOR AND SENIOR CS AND INFORM MAJORS WITH AP CREDIT, TRANSFER CREDIT, OR A WAIVER FOR ENGLWRIT112 WHO MEET THE OTHER STATED PREREQUISITES WILL NEED ASSISTANCE TO ENROLL VIA THE OVERRIDE FORM FOR CICS 305: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
<p><b>CICS 397A</b> ST-PREDICTVE ANALYTICS W/PYTHON Matthew Rattigan</p>	COMPSCI 119 (OR COMPSCI 121 OR COMPSCI 186 OR COMPSCI 187) AND STATISTICS 240 (OR OIM 240, OR PSYCH 240, OR STATISTICS 515, OR RES-ECON 212, OR SOCIOL 212) BOTH WITH A GRADE OF C OR BETTER.	UNDERGRADUATES ONLY.	LINEAR ALGEBRA (MATH 235) IS HELPFUL BUT NOT REQUIRED. STUDENTS WITH ALTERNATE PROGRAMMING OR STATISTICS BACKGROUND MAY REQUEST OVERRIDE FOR CONSIDERATION. AFTER INFORM MAJORS REGISTER, CICS 397A WILL OPEN TO ALL UNDERGRADUATES WHO MEET PREREQUISITE, IF AVAILABLE SEATS. 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> .
<p><b>CICS 580</b> INTRO NUMRICAL CMPTNG W/PYTHON Justin Payan</p>		GRADUATE STUDENTS ONLY.	PREVIOUSLY COMPSCI 590N. ONLINE OFFERING. COURSE RUNS FOR 6 WEEKS (9/1/21-10/15/21). FAMILIARITY WITH UNDERGRADUATE-LEVEL PROBABILITY, STATISTICS, AND LINEAR ALGEBRA WILL BE ASSUMED. UNDERGRADUATES WHO HAVE COMPLETED COMPSCI 240 AND MATH 235 WITH PERMISSION OF INSTRUCTOR. 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> .
<p><b>COMPSCI 119</b> INTRO PROGRAMMING William Verts</p>		FRESHMAN, SOPHOMORE AND JUNIOR NON-CS MAJORS ONLY.	THIS COURSE IS LISTED AS IN-PERSON BUT MAY BE CONVERTED TO ONLINE BEFORE THE START OF THE FALL SEMESTER. CS MAJORS ARE NOT ELIGIBLE FOR THIS COURSE. AFTER SOPHOMORE AND FRESHMEN STUDENTS REGISTER, 119 WILL OPEN TO JUNIORS. NON-CS JUNIORS SHOULD WAIT FOR THE ELIGIBILITY RESTRICTION TO BE REMOVED TO SELF-ENROLL OR ADD TO THE WAITLIST 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> .

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<b>COMPSCI 121</b> PROBLEM SOLVING W/COMPUTERS  <i>Eduardo Calle Ortiz, Meng-Chieh Chiu, Jaime Davila, Collin Giguere, Peter Klemperer, Adam Kohan, Spencer Lane, Ghazaleh Parvini, Cheryl Swanier</i>	COMPLETION OF THE R1 GEN ED (OR A SCORE OF 20 OR HIGHER ON THE MATH PLACEMENT TEST PART A), OR ONE OF THE FOLLOWING COURSES: MATH 101&102 OR MATH 104 OR MATH 127 OR MATH 128 OR MATH 131 OR MATH 132.	FRESHMEN AND SOPHOMORE UNDERGRADUATE STUDENTS ONLY.	INTENDED FOR CS AND INFORM MAJORS OR THOSE APPLYING TO THESE MAJORS. NON-MAJORS MAY OPT TO TAKE COMPSCI 119 (OR COMPSCI 190F). OPEN TO SOPHOMORE AND FRESHMAN ONLY. JUNIORS AND SENIORS WILL BE CONSIDERED CLOSER TO CLASS START, IF AVAILABLE SEATS. PRIORITY FOR MAJORS WITH 121 REQUIREMENT. ATTENDANCE IN LECT AND LAB IS MANDATORY. ICLICKER IS REQUIRED. FOR QUESTIONS ABOUT 121 COURSE ADMINISTRATION, CONTACT CS121admin@cs.umass.edu. 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> .
<b>COMPSCI 186</b> USING DATA STRUCTURES  <i>Peter Klemperer</i>	COMPSCI 121 WITH A GRADE OF C OR BETTER AND COMPLETION OF THE R1 GEN ED (OR A SCORE OF 20 OR HIGHER ON THE MATH PLACEMENT TEST PART A), OR ONE OF THE FOLLOWING COURSES: MATH 101&102 OR MATH 104 OR MATH 127 OR MATH 128 OR MATH 131 OR MATH 132.	INFORM MAJORS OR FRESHMAN AND SOPHOMORE UNDERGRADUATES ONLY.	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> .
<b>COMPSCI 187</b> PROGRAMMING W/DATA STRCTRS  <i>Gordon Anderson, Neena Thota</i>	COMPSCI 121 WITH A GRADE OF B OR BETTER (OR COMPSCI 186 (OR COMPSCI 190D) WITH A GRADE OF C OR BETTER).	UNDERGRADUATES ONLY.	REQUIRED PREREQUISITE: GRADE OF B OR BETTER IN COMPSCI 121 (OR C OR BETTER IN COMPSCI 186). ALL STUDENTS WITH AP OR TRANSFER CREDIT FOR 121 WILL REQUIRE AN OVERRIDE TO ENROLL. AFTER CS MAJORS AND CICS-ET MAJORS REGISTER, 187 WILL OPEN TO ALL UNDERGRADUATES WHO MEET PREREQUISITE. NON-CS MAJORS WITH THE REQUIRED PREREQUISITE TAKEN AT UMASS SHOULD NOT REQUEST AN OVERRIDE AND WAIT FOR THE MAJOR RESTRICTION TO BE REMOVED. 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> .
<b>COMPSCI 190F</b> FOUNDATIONS OF DATA SCIENCE  <i>Thomas Bernardin</i>	COMPLETION OF THE R1 GENERAL EDUCATION REQUIREMENT (OR A SCORE OF 20 OR HIGHER ON THE MATH PLACEMENT EXAM, PART A) OR ONE OF THE FOLLOWING COURSES: MATH 101 & 102, MATH 104, 127, 128, 131, OR 132.	UNDERGRADUATE STUDENTS IN MAJORS OTHER THAN COMPUTER SCIENCE AND MATH/STATISTICS.	CROSS-LISTED WITH STATISTICS 190F BUT NOT OFFERED SAME SEMESTER (COMPSCI 190F FALL; STATISTICS 190F SPRING). CS AND MATH/STATS MAJORS ARE NOT ELIGIBLE. CLASSROOM WITH COMPUTER WORKSTATIONS FOR STUDENT USE DURING LABS. 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> .
<b>COMPSCI 198C</b> P-INTRO-C PROGRAMMING LANGUAGE  <i>Meng-Chieh Chiu, J Moss, Timothy Richards</i>	COMPSCI 121 WITH A GRADE OF B OR BETTER (OR COMPSCI 186 (OR COMPSCI 190D) WITH A GRADE OF C OR BETTER).	UNDERGRADUATES ONLY.	IT IS RECOMMENDED THAT STUDENTS TAKE COMPSCI 198C BEFORE TAKING COMPSCI 230. STUDENTS ARE STRONGLY ADVISED TO HAVE COMPLETED COMPSCI 121 OR HAVE A SIMILAR BACKGROUND PRIOR TO TAKING COMPSCI 198C. INITIAL ELIGIBILITY IS LIMITED TO SOPHOMORE CS STUDENTS, THEN WILL BE OPENED TO FRESHMEN CS STUDENTS. STUDENTS NOT ELIGIBLE SHOULD REQUEST AN OVERRIDE AND PROGRAM WILL CONSIDER OPENING REGISTRATION BASED ON DEMAND. 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> .
<b>COMPSCI 220</b> PGMG METHODOLOGY  <i>Marius Minea, Emily Pruc</i>	COMPSCI 187 WITH A GRADE OF 'C' OR BETTER.	CS MAJORS ONLY.	STUDENTS MAY ONLY TAKE ONE OF 220 AND 230 IN THE SAME SEMESTER. THE UPC WILL DROP STUDENTS ENROLLED IN BOTH FROM ONE OF THE TWO COURSES. CS MINORS, APPLICANTS, AND OTHERS NOT MEETING ELIGIBILITY, OR 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> .
<b>COMPSCI 230</b> CMPTR SYS PRINC  <i>Meng-Chieh Chiu</i>	COMPSCI 187 WITH A GRADE OF 'C' OR BETTER.	CS MAJORS ONLY.	STUDENTS MAY ONLY TAKE ONE OF 220 AND 230 IN THE SAME SEMESTER. THE UPC WILL DROP STUDENTS ENROLLED IN BOTH FROM ONE OF THE TWO COURSES. IT IS RECOMMENDED THAT STUDENTS TAKE COMPSCI 198C BEFORE TAKING COMPSCI 230. CS MINORS, APPLICANTS-ON-CONTRACT, AND OTHERS NOT MEETING ELIGIBILITY, OR 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> .
<b>COMPSCI 240</b> RSNQ UNDER UNCERTAINTY  <i>Peter Haas, Jie Xiong</i>	COMPSCI 187 AND MATH 132 WITH A GRADE OF 'C' OR BETTER.	CS MAJORS ONLY.	STUDENTS MAY ONLY TAKE ONE OF 240 AND 250 IN THE SAME SEMESTER. THE UPC WILL DROP STUDENTS ENROLLED IN BOTH FROM ONE OF THE TWO COURSES. CS MINORS, APPLICANTS-ON-CONTRACT, AND OTHERS NOT MEETING ELIGIBILITY, OR 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> .
<b>COMPSCI 250</b> INTRO TO COMPUTATION  <i>David Barrington, Ghazaleh Parvini</i>	COMPSCI 187 (OR ECE 241) AND MATH 132, BOTH WITH A GRADE OF C OR BETTER.	CS AND MATH MAJORS ONLY.	STUDENTS MAY ONLY TAKE ONE OF 240 AND 250 IN THE SAME SEMESTER. THE UPC WILL DROP STUDENTS ENROLLED IN BOTH FROM ONE OF THE TWO COURSES. OPEN TO CSENG MAJORS WITH ECE 241 (OR ECE 242) WITH C OR BETTER, IF AVAILABLE SEATS. CS MINORS, APPLICANTS-ON-CONTRACT, AND OTHERS NOT MEETING ELIGIBILITY, OR 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> .

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<b>COMPSCI 311</b> INTRO TO ALGORITHMS  <i>David Barrington, Daniel Sheldon, Ramesh Sitaraman</i>	COMPSCI 187 AND COMPSCI 250 (OR MATH 455) WITH A GRADE OF C OR BETTER.	JUNIOR AND SENIOR CS MAJORS ONLY.	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> .
<b>COMPSCI 320</b> INTRO TO SOFTWARE ENGINEERING  <i>Gordon Anderson, David Fisher</i>	COMPSCI 220 WITH GRADE OF C OR BETTER.	JUNIOR AND SENIOR CS MAJORS ONLY.	NO OPTION FOR PASS/FAIL. SATISFIES INTEGRATIVE EXPERIENCE REQUIREMENT FOR CS MAJORS. MEETS WITH COMPSCI 529. 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> .
<b>COMPSCI 325</b> INTRO TO HUMAN CMPTR INTERACTN  <i>Mahmood Jasim</i>	COMPSCI 186 (OR COMPSCI 187) WITH A GRADE OF C OR BETTER.	JUNIOR AND SENIOR CS AND INFORM MAJORS ONLY.	SEATS RESERVED FOR INFORM MAJORS AS COURSE IS REQUIRED FOR MAJOR. ELIGIBLE STUDENTS MAY BE UNABLE TO ENROLL IN OPEN SEATS UNTIL THE RESERVE FOR INFORM MAJORS IS MET. A PREREQUISITE OF COMPSCI 186 (OR COMPSCI 187) WITH A C OR BETTER HAS BEEN APPROVED BY THE FACULTY SENATE FOR FALL 2021. 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> .
<b>COMPSCI 326</b> WEB PROGRAMMING  <i>Emery Berger</i>	COMPSCI 220 (OR COMPSCI 230) WITH A GRADE OF C OR BETTER, OR INFO 248 AND COMPSCI 186 (OR COMPSCI 187) BOTH WITH A GRADE OF C OR BETTER.	JUNIOR AND SENIOR CS AND INFORMATICS MAJORS ONLY.	NO OPTION FOR PASS/FAIL. SATISFIES INTEGRATIVE EXPERIENCE REQUIREMENT FOR CS AND INFORM MAJORS. SEATS RESERVED FOR INFORM MAJORS AS THIS COURSE IS REQUIRED FOR MAJOR. ELIGIBLE STUDENTS MAY BE UNABLE TO ENROLL IN OPEN SEATS UNTIL THE RESERVE FOR INFORM MAJORS IS MET. 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> .
<b>COMPSCI 328</b> MOBILE HEALTH SENSING&ANALYTCS  <i>Deepak Ganesan</i>	COMPSCI 187 (OR INFO 248 AND COMPSCI 186) WITH A GRADE OF C OR BETTER.	JUNIOR AND SENIOR CS AND INFORMATICS MAJORS ONLY.	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> .
<b>COMPSCI 345</b> PRACT & APPLICS OF DATA MGMT  <i>Jaime Davila, Marco Serafini</i>	COMPSCI 187 (OR INFO 248 AND COMPSCI 186) WITH A GRADE OF C OR BETTER.	JUNIOR AND SENIOR CS AND INFORMATICS MAJORS ONLY.	STUDENTS ARE EXPECTED TO HAVE BASIC PROGRAMMING SKILLS, AND BE ABLE TO USE LAPTOPS IN CLASS. STUDENTS WHO HAVE TAKEN COMPSCI 445 ARE NOT ELIGIBLE. RESERVED SEATS: ELIGIBLE STUDENTS MAY BE UNABLE TO ENROLL IN OPEN SEATS UNTIL THE RESERVE FOR INFORM MAJORS IS MET. 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> .
<b>COMPSCI 377</b> OPERATING SYSTEMS  <i>Mark Corner</i>	COMPSCI 230 WITH A GRADE OF 'C' OR BETTER.	JUNIOR AND SENIOR CS MAJORS ONLY.	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> .
<b>COMPSCI 383</b> ARTIFICIAL INTELLIGENCE  <i>Matthew Rattigan</i>	COMPSCI 220 (OR COMPSCI 230) AND COMPSCI 240 (OR STAT 515), BOTH WITH GRADE OF 'C' OR BETTER.	JUNIOR AND SENIOR CS MAJORS ONLY.	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> .
<b>COMPSCI 391L</b> S-CMPTR CRIME LAW:INVSTG/PRVCY  <i>Marvin Cable</i>	COMPSCI 230 AND ENGLWRIT 112 WITH A GRADE OF 'C' OR BETTER, OR CW G.ED. REQUIREMENT.	JUNIOR AND SENIOR CS MAJORS ONLY.	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> .

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<p><b>COMPSCI 398A</b> P-CREDITED INTERNSHIP</p>		<p>CICS CAREERS AND INSTRUCTOR PERMISSION REQUIRED.</p>
<p><b>COMPSCI 403</b> INTRO ROBTCS:PRCP,MECH,DYN,CTRL <i>Donghyun Kim</i></p>	<p>MATH 235 AND COMPSCI 220 (OR COMPSCI 230) WITH GRADE OF C OR BETTER.</p>	<p>JUNIOR AND SENIOR CS MAJORS ONLY.  UNDERGRADUATE PROGRAMMING CLASS, C OR C++ EXPERIENCE. 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>.</p>
<p><b>COMPSCI 446</b> SEARCH ENGINES <i>David Fisher</i></p>	<p>COMPSCI 240 OR COMPSCI 383 WITH A GRADE OF 'C' OR BETTER.</p>	<p>JUNIOR AND SENIOR CS MAJORS ONLY.  INSTRUCTOR WILL CONSIDER STAT515 AS AN ALTERNATE PREREQUISITE IN PLACE OF COMPSCI 240 VIA 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>.</p>
<p><b>COMPSCI 453</b> COMPUTER NETWORKS <i>Parviz Kermani</i></p>	<p>COMPSCI 230 (OR COMPSCI 377) WITH A GRADE OF 'C' OR BETTER.</p>	<p>JUNIOR AND SENIOR CS MAJORS ONLY.  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>.</p>
<p><b>COMPSCI 460</b> INTRO COMPUTER/NETWRK SECURITY <i>Christopher Misra</i></p>	<p>COMPSCI 377 WITH GRADE OF C OR BETTER.</p>	<p>JUNIOR AND SENIOR CS MAJORS ONLY.  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>.</p>
<p><b>COMPSCI 461</b> SECURE DISTRIBUTED SYSTEMS <i>Gregory Stone</i></p>	<p>COMPSCI 326, COMPSCI 345, COMPSCI 377, COMPSCI 453, OR COMPSCI 497P WITH A GRADE OF C OR BETTER.</p>	<p>CS MAJORS ONLY.  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 CSENG MAJORS WITH APPROPRIATE BACKGROUND, IF AVAILABLE SEATS. 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></p>
<p><b>COMPSCI 490A</b> APPLICATIONS OF NLP <i>Brendan O'Connor, Laure Thompson</i></p>	<p>COMPSCI 220 AND COMPSCI 240, BOTH WITH A GRADE OF C OR BETTER.</p>	<p>JUNIOR AND SENIOR CS MAJORS ONLY.  AN ALTERNATE PREREQUISITE OF LINGUIST 492B IS ACCEPTABLE FOR LINGUISTICS MAJORS; LINGUISTICS STUDENTS WITH PROGRAMMING AND PROBABILITY EXPERIENCE WILL LIKELY BE ADMITTED AND ENCOURAGED TO SUBMIT AN OVERRIDE. STUDENTS FROM OTHER DISCIPLINES WILL BE CONSIDERED AS WELL IF AVAILABLE SEATS. 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>.</p>
<p><b>COMPSCI 497S</b> ST-SCALABLE WEB SYSTEMS <i>Timothy Richards</i></p>	<p>COMPSCI 326 WITH A GRADE OF C OR BETTER.</p>	<p>JUNIOR AND SENIOR CS AND INFORM MAJORS ONLY.  IT IS RECOMMENDED TO HAVE COMPLETED COMPSCI 220 (PROGRAMMING METHODOLOGY) AND COMPSCI 230 (COMPUTER SYSTEMS PRINCIPLES), OR COMPSCI 377 (OPERATING SYSTEMS), HOWEVER, THIS IS NOT REQUIRED BUT WILL MAKE YOUR EXPERIENCE MORE RICH (E.G., BACKGROUND IN WEB APP DEPLOYMENT, BASIC SECURITY, NETWORK PROTOCOLS, PROCESSES, CLIENT SERVER ARCHITECTURE, AND GENERAL OPERATING SYSTEMS CONCEPTS). 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>.</p>
<p><b>COMPSCI 513</b> LOGIC IN COMPUTER SCIENCE <i>Neil Immerman</i></p>	<p>UNDERGRADUATES: COMPSCI 250 AND COMPSCI 311 WITH A GRADE OF 'C' OR BETTER.</p>	<p>Lect 01: JUNIOR AND SENIOR CS MAJORS ONLY. Lect 02: MS-CMPSCI GRADUATE STUDENTS ONLY.  MEETS WITH COMPSCI 613. LECT 01=UG; LECT 02=GRADS. SEATS SAVED IN LECT 02 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>.</p>

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	<u>PREREQUISITES</u>	<u>ELIGIBILITY RESTRICTIONS</u>	<u>CLASS NOTES/COMMENTS</u> <small>INFORMATION ONLY - DOES NOT AFFECT SPIRE ENROLLMENT.</small>
<b>COMPSCI 514</b> ALGORITHMS FOR DATA SCIENCE  <i>Andrew McGregor, Cameron Musco</i>	UNDERGRADUATES: COMPSCI 240 (OR STATISTICS 515) AND COMPSCI 311 BOTH WITH A GRADE OF B+ OR BETTER (OR COMPSCI 240, STATISTICS 515, COMPSCI 311, MATH 233, AND MATH 235, ALL WITH A GRADE OF C OR BETTER).	LECT 01: JUNIOR AND SENIOR CS MAJORS ONLY. LECT 02: MS-CMPSCI STUDENTS ONLY. UWW SECTION: <i>MS-CMPSCI STUDENTS ONLY.</i>	LECT 01 FOR UNDERGRADS; LECT 02 FOR GRADS. SEATS HELD IN LECT 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> .
<b>COMPSCI 520</b> THEORY AND PRACTICE-SOFTENGIN  <i>Heather Conboy</i>	UNDERGRADUATES: COMPSCI 320 WITH A GRADE OF C OR BETTER.	LECT 01: JUNIOR AND SENIOR CS MAJORS ONLY. LECT 02: MS-CMPSCI STUDENTS ONLY.	LECT 01 FOR UNDERGRADS; LECT 02 FOR GRADS. SEATS HELD IN LECT 02 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> .
<b>COMPSCI 529</b> SOFTWARE ENGINEERING PROJ MGMT  <i>Gordon Anderson, David Fisher</i>	COMPSCI 320 WITH A GRADE OF A- OR BETTER.	CS MAJORS ONLY.	MEETS WITH COMPSCI 320. EMAIL INSTRUCTOR FOR PERMISSION TO ENROLL.
<b>COMPSCI 532</b> SYSTEMS FOR DATA SCIENCE  <i>Hui Guan</i>	<b>UNDERGRADUATES: COMPSCI 311, COMPSCI 345, AND COMPSCI 377, ALL WITH A GRADE OF B OR BETTER.</b>	LECT 01: JUNIOR AND SENIOR CS MAJORS ONLY. LECT 02: MS-CMPSCI STUDENTS ONLY.	LECT 01 FOR UNDERGRADS; LECT 02 FOR GRADS. SEATS HELD IN LECT 02 FOR INCOMING STUDENT REGISTRATION. STARTING IN FALL 2022, THE PREREQUISITE WILL CHANGE AND UNDERGRADUATES WILL NEED TO HAVE COMPLETED COMPSCI 377 AND COMPSCI 445 WITH A C 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> .
<b>COMPSCI 563</b> INTERNET LAW AND POLICY  <i>Marvin Cable</i>	UNDERGRADUATES: COMPSCI 311 OR COMPSCI 383 OR COMPSCI 460 WITH C OR BETTER.	UNIV LECT 01: JUNIOR AND SENIOR CS MAJORS ONLY. UNIV LECT 02: MS-CMPSCI AND MS-ECE GRADUATE STUDENTS ONLY. UWW LECT 01: CMPSCI AND ECE GRADUATE STUDENTS ONLY.	UNIV LECT 02: PRIMARILY FOR CS GRADS WHO ARE CICS RA/TA CONTRACTED. 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> . UWW LECT 01: OTHER GRADUATE STUDENTS MAY BE CONSIDERED FOR UWW SECTION WITH INSTRUCTOR PERMISSION. REGISTRATION FOR UWW SECTION: <a href="https://www.umass.edu/online">https://www.umass.edu/online</a> .
<b>COMPSCI 576</b> GAME PROGRAMMING  <i>Evangelos Kalogerakis</i>	UNDERGRADUATES: COMPSCI 220, COMPSCI 311, AND MATH 235 ALL WITH A GRADE OF C OR BETTER.	LECT 01: JUNIOR AND SENIOR CS MAJORS ONLY. LECT 02: MS-CMPSCI STUDENTS ONLY.	PREVIOUSLY COMPSCI 590G. LECT 01 FOR UNDERGRADS; LECT 02 FOR GRADS. SEATS HELD IN LECT 02 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> .
<b>COMPSCI 589</b> MACHINE LEARNING  <i>Justin Domke, Madalina Fiterau Brostean</i>	UNDERGRADUATES: COMPSCI 383 AND MATH 235 WITH A GRADE OF C OR BETTER.	LECT 01: JUNIOR AND SENIOR CS MAJORS ONLY. LECT 02: MS-CMPSCI STUDENTS ONLY.	LECT 01 FOR UNDERGRADS; LECT 02 FOR GRADS. SEATS HELD IN LECT 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> .
<b>COMPSCI 590CC</b> CLOUD COMPUTING  <i>Arun Venkataramani</i>	UNDERGRADUATES: COMPSCI 377 WITH A GRADE OF 'C' OR BETTER.	LECT 01: JUNIOR AND SENIOR CS MAJORS ONLY. LECT 02: MS-CMPSCI STUDENTS ONLY.	LECT 01 FOR UNDERGRADS; LECT 02 FOR GRADS. 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> .

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**CLASS NOTES/COMMENTS** INFORMATION ONLY - DOES NOT AFFECT SPIRE ENROLLMENT.

**COMPSCI 590ED**  
 EDUC DATA MINING-LEARNER ANALY  
*Ivon Arroyo, Shiting Lan*

UNDERGRADUATE CS MAJORS: [ MATH 545 AND 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 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. ]  
 EDUC GRADS: EDUC 555 (OR EDUC 656) WITH A GRADE OF C OR BETTER.

LECT 01: JUNIOR AND SENIOR CS MAJORS ONLY.  
 LECT 02: COMPSCI GRADUATE STUDENTS ONLY.  
 EDUC 01: EDUC GRADUATE STUDENTS ONLY.

-LISTED WITH EDUC 590ED. COMPSCI LECT 01 FOR UNDERGRADS; LECT 02 FOR GRADS; EDUC SECTION FOR GRADS. PREREQUISITE EXPLAINED: MATH 545 AND COMPSCI 240 AND STATS 515 C OR BETTER. MATH 545 CAN BE SKIPPED BY STUDENTS WHO HAVE TAKEN MATH 235 AND MATH 23CROSS3 BOTH WITH A B+ OR BETTER. STATS 515 CAN BE SKIPPED BY STUDENTS WHO HAVE TAKEN COMPSCI 240 WITH A B+ OR BETTER. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <https://www.cics.umass.edu/overrides>.

**COMPSCI 590T**  
 ALGO FAIRNESS STRATEGIC BEHVR  
*Yair Zick*

UNDERGRADUATES: COMPSCI 240 AND COMPSCI 250, BOTH WITH C OR BETTER.

LECT 01: JUNIOR AND SENIOR CS MAJORS ONLY.  
 LECT 02: MS-CMPSCI STUDENTS ONLY.

LECT 01 FOR UNDERGRADS; LECT 02 FOR GRADS. 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). STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <https://www.cics.umass.edu/overrides>.

**COMPSCI 597N**  
 ST-COMPUTER AND NTRWK SECURTY  
*Parviz Kermani*

UNIV LECT 01: MS-CMPSCI AND MS-ECE GRADUATE STUDENTS ONLY.  
 UWW LECT 01: MS-CMPSCI AND MS-ECE STUDENTS ONLY.

UNIV LECT 01: PRIMARILY FOR CS GRADS WHO ARE CICS RA/TA CONTRACTED. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <https://www.cics.umass.edu/overrides>. UWW LECT 01: OTHER GRADUATE STUDENTS MAY BE CONSIDERED FOR UWW SECTION WITH INSTRUCTOR PERMISSION. REGISTRATION FOR UWW SECTION: <https://www.umass.edu/online>.

**COMPSCI 611**  
 ADVANCED ALGORITHMS  
*Hung Le*

COMPSCI GRADUATE STUDENTS ONLY.

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: <https://www.cics.umass.edu/overrides>.

**COMPSCI 613**  
 ADV LOGIC IN COMPUTER SCIENCE  
*Neil Immerman*

COMPSCI GRADUATE STUDENTS ONLY.

WAS COMPSCI 690LG. MEETS WITH COMPSCI 513. STUDENTS TAKING THIS COURSE SHOULD HAVE UNDERGRADUATE PREPARATION IN DISCRETE MATH AND ALGORITHMS. SEATS HELD FOR INCOMING GRAD STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <https://www.cics.umass.edu/overrides>.

**COMPSCI 646**  
 INFORMATION RETRIEVAL  
*Hamed Zamani*

COMPSCI GRADUATE STUDENTS ONLY.

INSTRUCTOR PERMISSION REQUIRED FOR SENIOR CS MAJORS WHO MEET THE PREREQUISITE OF COMPSCI 445 OR 446 WITH A GRADE OF C OR BETTER AND CLEARED BY THE UPD, IF SEATS ARE AVAILABLE. SEATS HELD FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <https://www.cics.umass.edu/overrides>.

**COMPSCI 661**  
 SECURE DISTRIBUTED SYSTEMS  
*Gregory Stone*

UNIV LECT 01: COMPSCI GRADUATE STUDENTS ONLY.  
 UWW LECT 01: COMPSCI AND ECE GRADUATE STUDENTS ONLY.

COURSE PREVIOUSLY COMPSCI 690P. THE COURSE IS BASED ON A FLIPPED CLASSROOM. MUCH OF THE COURSE CONTENT IS DELIVERED ONLINE AND STUDENTS ARE EXPECTED TO VIEW OR READ THESE MATERIALS AHEAD OF CLASS MEETINGS IN PREPARATION FOR DISCUSSION. PHYSICAL ATTENDANCE IS REQUIRED FOR IN-PERSON SECTIONS. REGISTRATION FOR UNIV SECTION IS PRIMARILY FOR CS GRADS WHO ARE CICS RA/TA CONTRACTED. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <https://www.cics.umass.edu/overrides>. UWW LECTURE 01 IN-PERSON. REGISTRATION FOR UWW SECTION: <https://www.umass.edu/online>

**COMPSCI 682**  
 NEURAL NETWORKS:MODERN INTRO  
*Erik Learned-Miller*

GRADUATE STUDENTS ONLY.

REQUIRED BACKGROUND FOR THE COURSE INCLUDES THE FOLLOWING. MULTIVARIATE CALCULUS, LINEAR ALGEBRA, AND PROBABILITY AND STATISTICS. PROGRAMMING IN PYTHON OR EQUIVALENT HIGH LEVEL LANGUAGE. SEATS HELD FOR INCOMING GRAD STUDENT REGISTRATION. UNDERGRADUATES AND STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <https://www.cics.umass.edu/overrides>.

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**COMPSCI 685**  
ADV NATURAL LANG PROCESSING  
*Mohit Iyyer*

CMPSCI GRADUATE STUDENTS ONLY.

PHD-LING STUDENTS WITH PERMISSION OF INSTRUCTOR. SEATS HELD FOR INCOMING GRAD STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA ON-LINE FORM: <https://www.cics.umass.edu/overrides>.

**COMPSCI 687**  
REINFORCEMENT LEARNING  
*Bruno Castro da Silva*

CMPSCI GRADUATE STUDENTS ONLY.

A BACKGROUND IN MACHINE LEARNING (COMPSCI 589 AND COMPSCI 689) AND ARTIFICIAL INTELLIGENCE (COMPSCI 683) ARE ASSUMED. FAMILIARITY WITH AN OBJECT ORIENTED PROGRAMMING LANGUAGE IS REQUIRED. SEATS HELD FOR INCOMING GRAD STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <https://www.cics.umass.edu/overrides>.

**COMPSCI 689**  
MACHINE LEARNING  
*Benjamin Marlin*

CMPSCI GRADUATE STUDENTS ONLY.

PERMISSION OF INSTRUCTOR FOR CS MAJORS MEETING THE PREREQUISITE OF MATH 132 AND MATH 235, AND EITHER STATISTICS 515 OR 607 OR 608, IF CLEARED BY THE UPD AND AVAILABLE SEATS. SEATS HELD FOR INCOMING GRAD STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <https://www.cics.umass.edu/overrides>.

**COMPSCI 690Q**  
QUANTUM INFORMATION SYSTEMS  
*Donald Towsley*

CMPSCI GRADUATE STUDENTS ONLY.

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: <https://www.cics.umass.edu/overrides>.

**COMPSCI 691DD**  
S-RESEARCH METHDS-EMPIRICAL CS  
*David Jensen*

6/24/2021

CMPSCI GRADUATE STUDENTS ONLY.

SEATS SAVED FOR INCOMING GRADUATE REGISTRATION. CHC CS MAJORS WITH INSTRUCTOR, HPD, AND UPD PERMISSION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <https://www.cics.umass.edu/overrides>.

**COMPSCI 692C**  
S-EQUITABLE AND EXPLAINABLE AI  
*Przemyslaw Adam Grabowicz*

CMPSCI GRADUATE STUDENTS ONLY.

STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <https://www.cics.umass.edu/overrides>.

**COMPSCI 692N**  
S- NVL COMPUTATIONAL HRDWR & ML  
*Edward Rietman*

CMPSCI GRADUATE STUDENTS ONLY.

A BACKGROUND IN LINEAR ALGEBRA, CALCULUS, AND STATISTICS IS ASSUMED. UNDERGRADUATES WITH APPROPRIATE BACKGROUND, I.E., MATH 235, MATH 132, AND STATISTICS 515, WILL BE CONSIDERED WITH INSTRUCTOR PERMISSION, IF AVAILABLE SEATS. CS MAJORS: THIS COURSE DOES NOT COUNT AS A CS ELECTIVE FOR THE BA OR BS. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <https://cics.umass.edu/overrides>

**COMPSCI 698W**  
P-CS RESRCH WRITNG PRACTICUM  
*Justin Obara*

CMPSCI PHD STUDENTS ONLY.

MAY BE REPEATED FOR CREDIT ONCE. SECT 01 (9/2-10/14/21); SECT 02 (10/19-12/7/21). STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <https://www.cics.umass.edu/overrides>.

**COMPSCI 701**  
ADV TOPICS IN CMPSCI

DOCTORAL, MASTERS CMPSCI GRADUATE STUDENTS ONLY.

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 BEGUN AND COMPLETED WITHIN THE SAME SEMESTER. REQUEST OVERRIDE VIA THE SPECIAL ON-LINE FORM: <https://www.cics.umass.edu/content/registration>

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<u>PREREQUISITES</u>	<u>ELIGIBILITY RESTRICTIONS</u>	<u>CLASS NOTES/COMMENTS</u> <small>INFORMATION ONLY - DOES NOT AFFECT SPIRE ENROLLMENT.</small>
<p><b>COMPSCI 701Y</b> ADV TOPICS IN CMPSCI (1ST SEM)</p>		<p>DOCTORAL, MASTERS CMPSCI GRADUATE STUDENTS ONLY.</p> <p>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></p>
<p><b>COMPSCI 741</b> COMPLEXITY THEORY <i>David Barrington</i></p>	<p>COMPSCI 601</p> <p>GRADUATE STUDENTS ONLY.</p>	<p>STUDENTS NOT MEETING PREREQUISITE WITH INSTRUCTOR 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>.</p>
<p><b>COMPSCI 879</b> TEACH ASSTS-TOMORROW'S FACULTY <i>Neena Thota</i></p>		<p>COURSE IS ASSOCIATED WITH CICS TA EMPLOYMENT. REQUIRED COMPONENT OF TA CONTRACT. REGISTRATION WILL BE PROCESSED BY GRADUATE PROGRAM MANAGER AFTER SIGNED AND APPROVED CONTRACT. OPEN TO CICS TEACHING ASSISTANTS ONLY.</p>
<p><b>COMPSCI 891M</b> S-THEORY OF COMPUTATION <i>Cameron Musco</i></p>	<p>DOCTORAL, MASTERS GRADUATE STUDENTS ONLY.</p>	<p>MAY BE REPEATED FOR CREDIT UP TO 6 TIMES. UNDERGRADUATES AND 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>.</p>
<p><b>COMPSCI 899</b> PHD DISSERTATION</p>		<p>COURSE OPEN ONLY TO CS GRADUATE STUDENTS WHO HAVE PASSED PORTFOLIO. 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></p>
<p><b>COMPSCI H311</b> INTRO TO ALGORITHMS (COLLOQ) <i>Marius Minea</i></p>	<p><b>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).</b></p> <p>COMMONWEALTH HONORS COLLEGE JUNIOR AND SENIOR CS AND MATH MAJORS ONLY.</p>	<p>NO OPTION FOR PASS/FAIL. STUDENTS MUST BE ENROLLED IN COMPSCI 311 (OR HAVE COMPLETED COMPSCI 311 WITH A GRADE OF B OR BETTER). REQUEST OVERRIDE VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</p>
<p><b>COMPSCI H320</b> HNRS COLLOQ: SOFTW ENGINEERING <i>David Fisher</i></p>	<p><b>COMPSCI 220 WITH A GRADE OF C OR BETTER (OR COMPSCI 320 WITH A GRADE OF B OR BETTER).</b></p> <p>COMMONWEALTH HONORS COLLEGE JUNIOR AND SENIOR CS MAJORS ONLY.</p>	<p>NO OPTION FOR PASS/FAIL. STUDENTS MUST BE ENROLLED IN COMPSCI 320 (OR HAVE COMPLETED COMPSCI 320 WITH A GRADE OF B OR BETTER). REQUEST OVERRIDE VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</p>
<p><b>COMPSCI H345</b> HNRS COLLOQ: PRAC&amp;APP-DATA MGT <i>Jaime Davila</i></p>	<p><b>COMPSCI 187 (OR INFO 248 AND COMPSCI 186) WITH A GRADE OF C OR BETTER (OR COMPSCI 345 WITH A GRADE OF B OR BETTER).</b></p> <p>JUNIOR AND SENIOR CS AND INFORM MAJORS IN COMMONWEALTH HONORS COLLEGE.</p>	<p>NO OPTION FOR PASS/FAIL. STUDENTS MUST BE ENROLLED IN COMPSCI 345 (OR HAVE COMPLETED COMPSCI 345 WITH A GRADE OF B OR BETTER). REQUEST OVERRIDE VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</p>
<p><b>COMPSCI H377</b> HNRS COLLOQ: OPERATING SYSTEMS <i>Mark Corner</i></p>	<p><b>COMPSCI 230 WITH A GRADE OF C OR BETTER (OR COMPSCI 377 WITH A GRADE OF B OR BETTER).</b></p> <p>OPEN TO SENIOR AND JUNIOR COMMONWEALTH HONORS COLLEGE CS MAJORS ONLY.</p>	<p>NO OPTION FOR PASS/FAIL. STUDENTS MUST BE ENROLLED IN COMPSCI 377 (OR HAVE COMPLETED COMPSCI 377 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>.</p>



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**INFO 101**  
 INTRO TO INFORMATICS  
*Cheryl Swanier*

UNDERGRADUATE NON-CS MAJORS ONLY.

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: <https://www.cics.umass.edu/overrides>.

**INFO 150**  
 MATH FOUND-INFORMATICS  
*Ghazaleh Parvini*

UNDERGRADUATE NON-CS AND NON-MATH/STATS MAJORS ONLY.

CS MAJORS ARE NOT ELIGIBLE FOR THIS COURSE. AFTER INFORM MAJORS REGISTER, INFO 150 WILL OPEN TO ALL NON-CS UNDERGRADUATES. R1 MATH USEFUL; NOT ABSOLUTELY REQUIRED. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <https://www.cics.umass.edu/overrides>.

**INFO 190S**  
 INTRO TO PGMG FOR INFORMTN SCI  
*Timothy Richards*

COMPLETION OF THE R1 GEN ED (OR A SCORE OF 20 OR HIGHER ON THE MATH PLACEMENT TEST PART A), OR ONE OF THE FOLLOWING COURSES: MATH 101&102 OR MATH 104 OR MATH 127 OR MATH 128 OR MATH 131 OR MATH 132.

UNDERGRADUATES ONLY.

STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <https://www.cics.umass.edu/overrides>.

**INFO 203**  
 A NETWORKED WORLD  
*Mohammadhassan Hajjesmaili*

UNDERGRADUATE NON-CS MAJORS ONLY.

CS MAJORS ARE NOT ELIGIBLE FOR THIS COURSE. AFTER INFORM MAJORS REGISTER, INFO 203 WILL OPEN TO ALL NON-CS UNDERGRADUATES. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <https://www.cics.umass.edu/overrides>.