

SPIRE REGISTRATION INFORMATION for 2022 Fall

PREREQUISITES

ELIGIBILITY RESTRICTIONS

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

CICS 108
FOUNDATIONS OF DATA SCIENCE

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.

WAS COMPSCI 190F. CROSS-LISTED WITH STATISTICS 108 BUT NOT OFFERED SAME SEMESTER (CICS 108 FALL; STATISTICS 108 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: <https://www.cics.umass.edu/overrides>.

CICS 256
MAKE: PHYSICAL COMPUTING
Tauhidur Rahman

COMPSCI 187 WITH A GRADE OF 'C' OR BETTER AND BASIC MATH SKILLS (R1).

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 FRESHMEN, SOPHOMORE AND JUNIOR BS-CS MAJORS ONLY. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <https://www.cics.umass.edu/overrides>.

CICS 290A
INTRO RESRCH IN THE DISCIPLINE
, Neena Thota

CREDIT CHANGE FROM 1 TO 2 CREDITS, EFFECTIVE FALL 2022. 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.

CICS 291T
S-CICS TRANSFER SUCCESS
Jason Valladares

DEPARTMENT CONSENT REQUIRED: OPEN TO INCOMING CS AND INFORM TRANSFER STUDENTS ONLY.

CICS 297DP
ST-THE DIGITAL PUBLIC SPHERE
Ethan Zuckerman

MEETS WITH SPP 297DP AND COMM 297DP. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <https://www.cics.umass.edu/overrides>

CICS 305
SOC ISS IN CMPNG
Siobhan Mei, Siobhan Mei, Siobhan Mei, Justin Obara, STAFF, STAFF, STAFF, STAFF, Michelle Trim

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. RESTRICTED TO CS PRIMARY MAJORS. EVEN LECTS: SENIOR AND JUNIOR INFORMATICS MAJORS ONLY. RESTRICTED TO INFORMATICS PRIMARY MAJORS.

SATISFIES JUNIOR YEAR WRITING REQUIREMENT. ODD LECTURES FOR CS MAJORS; EVEN LECTURES FOR INFORM MAJORS. ELIGIBILITY LIMITED TO CS OR INFORMATICS PRIMARY MAJORS ONLY. CS OR INFORMATICS SECONDARY MAJOR MUST TAKE JUNIOR YEAR WRITING COURSE WITHIN PRIMARY MAJOR DEPARTMENT. 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: <https://www.cics.umass.edu/overrides>.

CICS 396T
IS-CPT

CS MAJORS ONLY.

INTERNATIONAL UNDERGRADUATE STUDENTS SHOULD REFER TO THE IPO WEBSITE FOR DETAILS ABOUT CURRICULAR PRACTICAL TRAINING (CPT). DETAILS ABOUT REGISTRATION AND THE CPT APPLICATION PROCESS FOR CS MAJORS: <https://www.cics.umass.edu/cpt-policy-international-undergraduate-cs-majors>

CICS 397A
ST-PREDICTVE ANALYTICS W/PYTHON
Matthew Rattigan

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.

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

CICS 580
INTRO NUMRICAL CMPNG W/PYTHON
STAFF

GRADUATE STUDENTS ONLY.

PREVIOUSLY COMPSCI 590N. ONLINE OFFERING. COURSE RUNS FOR 6 WEEKS (9/6/22-10/22/22). 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: <https://www.cics.umass.edu/overrides>.

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CICS 596T IS-CPT		GRADUATE PHD CMPSCI STUDENTS ONLY.	COMPUTER SCIENCE GRADUATE STUDENTS INTERESTED IN PURSUING CPT MUST CONTACT THE GRADUATE PROGRAM MANAGER IN THE CS MAIN OFFICE. DURING FALL AND SPRING, MS-CMPSCI GRADUATE STUDENTS MAY REQUEST TO ENROLL IN THIS COURSE WITH PERMISSION ONLY. REGISTRATION IN SUMMER IS THROUGH CPE. DETAILS ABOUT REGISTRATION AND THE CPT APPLICATION PROCESS FOR CMPSCI GRADUATE STUDENTS: https://www.cics.umass.edu/career-development/guidelines-international-students
COMPSCI 119 INTRO PROGRAMMING <i>Cole Reilly</i>		UNDERGRADUATE NON-CS MAJORS ONLY.	CS MAJORS ARE NOT ELIGIBLE FOR THIS COURSE. AFTER FRESHMEN, SOPHOMORES AND JUNIORS REGISTER, 119 MAY OPEN TO ALL UNDERGRADUATES IF AVAILABLE SEATS. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 121 PROBLEM SOLVING W/COMPUTERS <i>Jaime Davila, Ghazaleh Parvini, Cole Reilly, 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 INFO 190S). OPEN TO SOPHOMORES AND FRESHMEN 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 overrides@cs.umass.edu . STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: HTTPS://WWW.CICS.UMASS.EDU/OVERRIDES .
COMPSCI 186 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: https://www.cics.umass.edu/overrides .
COMPSCI 187 PROGRAMMING W/DATA STRCTRS <i>Gordon Anderson, Cheryl Swanier</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: https://www.cics.umass.edu/overrides .
COMPSCI 198C P-INTRO-C PROGRAMMING LANGUAGE <i>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).	OPEN TO FRESHMEN, SOPHOMORE, AND JUNIOR COMPSCI STUDENTS.	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 FRESHMEN, SOPHOMORE AND JUNIOR 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: https://www.cics.umass.edu/overrides .
COMPSCI 220 PGMG METHODOLOGY <i>Jaime Davila, Marius Minea</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: https://www.cics.umass.edu/overrides .
COMPSCI 230 CMPTR SYS PRINC <i>Marc Liberatore</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, CS APPLICANTS, AND OTHERS NOT MEETING ELIGIBILITY, OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 240 RSNG UNDER UNCERTAINTY <i>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, CS APPLICANTS, AND OTHERS NOT MEETING ELIGIBILITY, OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .

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COMPSCI 250 INTRO TO COMPUTATION <i>Ghazaleh Parvini</i>	COMPSCI 187 (OR ECE 241) AND MATH 132, BOTH WITH A GRADE OF C OR BETTER.	CS, CSENG, 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. CS MINORS, APPLICANTS-ON-CONTRACT, AND OTHERS NOT MEETING ELIGIBILITY, OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 311 INTRO TO ALGORITHMS <i>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: https://www.cics.umass.edu/overrides .
COMPSCI 320 INTRO TO SOFTWARE ENGINEERING <i>Gordon Anderson, Yuriy Brun, 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: https://www.cics.umass.edu/overrides .
COMPSCI 325 INTRO TO HUMAN CMPTR INTERACTN <i>Ravi Karkar, Narges Mahyar</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: https://www.cics.umass.edu/overrides .
COMPSCI 326 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: https://www.cics.umass.edu/overrides .
COMPSCI 335 INSIDE BOX:HOW CMPTRS WORK <i>Charles Weems</i>	COMPSCI 220 (OR COMPSCI 230) WITH A GRADE OF C OR BETTER.	JUNIOR AND SENIOR CS MAJORS ONLY.	MAY OPEN TO SOPHOMORE CS MAJORS MEETING PREREQUISITE IF AVAILABLE SEATS. STUDENTS WILL NEED TO SIGN A LOAN AGREEMENT FOR A PROVIDED HARDWARE KIT. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides
COMPSCI 345 PRACT & APPLICS OF DATA MGMT <i>Alexandra Meliou</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: https://www.cics.umass.edu/overrides .
COMPSCI 360 INTRO COMPUTER/NETWRK SECURITY <i>Christopher Misra</i>	COMPSCI 230 WITH GRADE OF C OR BETTER.	JUNIOR AND SENIOR CS MAJORS ONLY.	BEGINNING IN FALL 2022, THIS COURSE CHANGED FROM COMPSCI 460 TO COMPSCI 360. THE PREREQUISITE CHANGED TO REQUIRE COMPSCI 230. THIS AND FUTURE OFFERINGS AS COMPSCI 360 WILL CONTINUE TO COUNT AS A CS ELECTIVE FOR THE CS MAJOR, BUT AT THE 300-LEVEL. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 365 DIGITAL FORENSICS <i>Brian Levine</i>	COMPSCI 230 WITH A GRADE OF C OR BETTER.	SOPHOMORE, JUNIOR AND SENIOR CS AND INFORM MAJORS ONLY.	STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .

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COMPSCI 377 OPERATING SYSTEMS <i>Timothy Richards</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: https://www.cics.umass.edu/overrides .
COMPSCI 383 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: https://www.cics.umass.edu/overrides .
COMPSCI 391L 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: https://www.cics.umass.edu/overrides .
COMPSCI 403 INTRO ROBTCS:PRCP,MECH,DYN,CTRL <i>Donghyun Kim</i>	MATH 235 AND COMPSCI 220 (OR COMPSCI 230) WITH GRADE OF C OR BETTER.	JUNIOR AND SENIOR CS MAJORS ONLY.	<i>UNDERGRADUATE PROGRAMMING CLASS, Matlab or Python programming experience is preferred. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides.</i>
COMPSCI 420 SOFTWARE ENTREPRENEURSHIP <i>Neena Thota</i>	COMPSCI 326 (OR COMPSCI 320) WITH A GRADE OF C OR BETTER.	JUNIOR AND SENIOR CS AND INFORM MAJORS ONLY.	
COMPSCI 445 INFORMATION SYSTEMS <i>Marco Serafini</i>	COMPSCI 220 (OR COMPSCI 230) AND COMPSCI 311 AND COMPSCI 345, ALL WITH GRADE OF 'C' OR BETTER.	JUNIOR AND SENIOR CS MAJORS ONLY.	IF AVAILABLE SEATS, STUDENTS WHO ARE NOT CS MAJORS BUT HAVE SUFFICIENT PROGRAMMING EXPERIENCE, CS GRADUATE STUDENTS, OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 446 SEARCH ENGINES <i>James Allan</i>	COMPSCI 240 OR COMPSCI 383 WITH A GRADE OF 'C' OR BETTER.	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: https://www.cics.umass.edu/overrides .
COMPSCI 453 COMPUTER NETWORKS <i>Parviz Kermani</i>	COMPSCI 230 (OR COMPSCI 377) 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: https://www.cics.umass.edu/overrides
COMPSCI 461 SECURE DISTRIBUTED SYSTEMS <i>Gregory Stone</i>	COMPSCI 326, COMPSCI 345, COMPSCI 377, COMPSCI 453, OR COMPSCI 497P WITH A GRADE OF C OR BETTER.	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: https://www.cics.umass.edu/overrides

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<p>COMPSCI 490A APPLICATIONS OF NLP</p> <p><i>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.</p>	<p>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: https://www.cics.umass.edu/overrides.</p>
<p>COMPSCI 497S ST-SCALABLE WEB SYSTEMS</p> <p><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.</p>	<p>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: https://www.cics.umass.edu/overrides.</p>
<p>COMPSCI 514 ALGORITHMS FOR DATA SCIENCE</p> <p><i>Andrew McGregor, Cameron Musco</i></p>	<p>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).</p>	<p>LECT 01: JUNIOR AND SENIOR CS MAJORS ONLY. LECT 02: MS-CMPSCI STUDENTS ONLY.</p>	<p><i>LECT 01 FOR UNDERGRADS; LECT 02 FOR GRADS (MEETS IN-PERSON); LECT 03 ONLINE FOR GRADUATE STUDENTS ONLY; LECT 04 ONLINE FOR UNDERGRADUATE STUDENTS ONLY; UWW LECT 01 ONLINE FOR ONLINE MS-COMPSCI AND MS-COMPSCI ONLY. SEATS HELD IN LECT 02 FOR INCOMING GRAD STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides.</i></p>
<p>COMPSCI 520 THEORY AND PRACTICE-SOFTENGIN</p> <p><i>Heather Conboy</i></p>	<p>UNDERGRADUATES: COMPSCI 320 WITH A GRADE OF C OR BETTER.</p>	<p>LECT 01: JUNIOR AND SENIOR CS MAJORS ONLY. LECT 02: MS-CMPSCI STUDENTS ONLY.</p>	<p>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: https://www.cics.umass.edu/overrides.</p>
<p>COMPSCI 529 SOFTWARE ENGINEERING PROJ MGMT</p> <p><i>Gordon Anderson, Yuriy Brun, David Fisher</i></p>	<p>COMPSCI 320 WITH A GRADE OF A- OR BETTER.</p>	<p>CS MAJORS ONLY.</p>	<p>MEETS WITH COMPSCI 320. EMAIL INSTRUCTOR FOR PERMISSION TO ENROLL.</p>
<p>COMPSCI 532 SYSTEMS FOR DATA SCIENCE</p> <p><i>Hui Guan</i></p>	<p>UNDERGRADUATES: COMPSCI 377 AND COMPSCI 445 WITH A GRADE OF C OR BETTER.</p>	<p>LECT 01: JUNIOR AND SENIOR CS MAJORS ONLY. LECT 02: MS-CMPSCI STUDENTS ONLY.</p>	<p>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: https://www.cics.umass.edu/overrides.</p>
<p>COMPSCI 560 INTRO COMPUTER&NETWRK SECURITY</p> <p><i>Parviz Kermani</i></p>	<p>UNDERGRADUATES: COMPSCI 453 OR E&C-ENG 374 WITH A GRADE OF C OR BETTER.</p>	<p>UNIV LECT 01: UNDERGRADUATE CS AND CSENG STUDENTS. UNIV LECT 02: MS-CMPSCI AND MS-ECE STUDENTS ONLY. UWW: MS-CMPSCI STUDENTS ONLY.</p>	<p>NO PREREQUISITES FOR CS OR ECE GRADUATE STUDENTS; HOWEVER, ANY EDUCATION IN SECURITY REQUIRES A GOOD KNOWLEDGE OF NETWORKING. AS SUCH, KNOWLEDGE OF COMPSCI 453, COMPUTER NETWORKING, IS ESSENTIAL TO COMPLETELY BENEFIT FROM THIS COURSE. UNIV LECT 01: UNDERGRADUATE STUDENTS; UNIV LECT 02: ANY GRADUATE STUDENT; UWW LECT 01: ONLINE MS-CS STUDENTS AND OTHER GRADUATE STUDENTS EXCEPT ECE. REGISTRATION FOR UWW SECTION: https://www.umass.edu/online.</p>
<p>COMPSCI 563 INTERNET LAW AND POLICY</p> <p><i>Marvin Cable</i></p>	<p>UNDERGRADUATES: COMPSCI 311 OR COMPSCI 383 OR COMPSCI 460 WITH C OR BETTER.</p>	<p>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.</p>	<p>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: 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.</p>
<p>COMPSCI 575 COMBINATORICS AND GRAPH THEORY</p> <p><i>Marius Minea</i></p>	<p>UNDERGRADUATES WITH COMPSCI 250 (OR MATH 455) WITH A GRADE OF B OR BETTER.</p>	<p>LECT 01: JUNIOR AND SENIOR UNDERGRADUATES ONLY. LECT 02: MS-CMPSCI STUDENTS ONLY.</p>	<p>CROSS-LISTED WITH MATH 513. LECT 01 FOR UNDERGRADS; LECT 02 FOR GRADS. IF NOT MEETING PREREQUISITES, STUDENTS NEEDING INSTRUCTOR PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides.</p>

SPIRE REGISTRATION INFORMATION for 2022 Fall

PREREQUISITES

ELIGIBILITY RESTRICTIONS

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

COMPSCI 576
GAME PROGRAMMING
Evangelos Kalogerakis

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

COMPSCI 589
MACHINE LEARNING
Justin Domke

UNDERGRADUATES: [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.]

LECT 01: JUNIOR AND SENIOR CS MAJORS ONLY.
LECT 02: MS-CMPSCI STUDENTS ONLY.
LECT 03: MS-CMPSCI AND GRADUATE STUDENTS IN MATH OR STATISTICS.
UWW LECT 01: GRADUATE STUDENTS ONLY.

LECT 01 FOR UNDERGRADS IN PERSON ON AMHERST CAMPUS; LECT 02 FOR GRADS IN PERSON ON AMHERST CAMPUS; LECT 03 GRADS IN PERSON ON MT.IDA CAMPUS. TA'S WILL BE AVAILABLE IN THE AMHERST CLASSROOM. 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 590OP
APPLIED NUMERICAL OPTIMIZATION
Shiting Lan

COMPSCI 240, MATH 235, AND MATH 233, ALL 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. SEATS HELD FOR INCOMING GRADUATE STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <https://www.cics.umass.edu/overrides>.

COMPSCI 590T
ALGO FAIRNESS STRATEGIC BEHAVIOR
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 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 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 653
COMPUTER NETWORKING
Arun Venkataramani

COMPSCI GRADUATE STUDENTS ONLY.

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

COMPSCI 660
ADV INFORMATION ASSURANCE
Amir Houmansadr

COMPSCI GRADUATE STUDENTS ONLY.

INSTRUCTOR PERMISSION REQUIRED FOR UNDERGRADUATE CS MAJORS WHO MEET THE PREREQUISITE OF COMPSCI 460 OR COMPSCI 466, OR EQUIVALENT AND CLEARED BY THE UPD, IF AVAILABLE SEATS. NON-CS STUDENTS BY PERMISSION OF INSTRUCTOR. 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>.

SPIRE REGISTRATION INFORMATION for 2022 Fall

PREREQUISITES

ELIGIBILITY RESTRICTIONS

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

COMPSCI 661
SECURE DISTRIBUTED SYSTEMS
Gregory Stone

UNIV LECT 01: CMPSCI GRADUATE STUDENTS ONLY.
UWW LECT 01: CMPSCI 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 670
COMPUTER VISION
Subhransu Maji

COMPSCI GRADUATE STUDENTS ONLY.

PREREQUISITES ARE LINEAR ALGEBRA, CALCULUS 1 AND 2, MULTI-VARIATE CALCULUS OR PERMISSION OF INSTRUCTOR. STATS 515 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: <https://www.cics.umass.edu/overrides>.

COMPSCI 677
DISTRIBUTED AND OPERATING SYS
Peter Klemperer

LECT 01: CS AND ECE GRADUATE STUDENTS ONLY.

INSTRUCTOR PERMISSION REQUIRED FOR SENIOR CS MAJORS CLEARED BY THE UPD, IF AVAILABLE SEATS. BACKGROUND IN UNDERGRAD OS (COMPSCI 377) IS HELPFUL. SEATS HELD FOR INCOMING GRAD STUDENT REGISTRATION. MS-ECE STUDENTS MAY ENROLL IN UNIVERSITY SECTION, BUT NOT UWW SECTION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <https://www.cics.umass.edu/overrides>.

COMPSCI 687
REINFORCEMENT LEARNING
Bruno Castro da Silva

COMPSCI 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

COMPSCI 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 690C
FOUNDATNS-APPLD CRYPTOGRAPHY
Adam O'Neill

COMPSCI GRADUATE STUDENTS ONLY.

MATHEMATICAL MATURITY, 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: <https://www.cics.umass.edu/overrides>.

COMPSCI 690F
RESPONSIBLE AI
Przemyslaw Adam Grabowicz

COMPSCI GRADUATE STUDENTS ONLY.

AS THE COURSE HAS INTERDISCIPLINARY PARTS, TOWARD STATISTICS AND BEHAVIORAL SCIENCES, GRADUATE STUDENTS FROM OTHER DEPARTMENTS MAY ENROLL, IF SEATS ARE AVAILABLE. FOLLOWING BACKGROUND IS ASSUMED: INTRODUCTORY MACHINE LEARNING OR DATA SCIENCE (COMPSCI 348 OR 383 OR 389 OR 589 OR EQUIVALENT), BASIC STATISTICS (COMPSCI 240 OR STAT 240 OR PSYCH 240 OR OIM 240 OR STAT 515 OR EQUIVALENT), GOOD PROGRAMMING SKILLS IN PYTHON (LIBRARIES: NUMPY, PANDAS, MATPLOTLIB, SKLEARN). STUDENTS OUTSIDE OF CS MUST REQUEST OVERRIDES VIA THE ON-LINE FORM AND DESCRIBE HOW THEY MEET PREREQUISITES UNDER "ADDITIONAL INFORMATION": <https://www.cics.umass.edu/overrides>. STUDENTS WHO ARE UNCERTAIN WHETHER THEIR BACKGROUND IS SUFFICIENT SHOULD EMAIL THE INSTRUCTOR ATTACHING THEIR ACADEMIC TRANSCRIPTS TO DETERMINE WHETHER THEY HAVE THE APPROPRIATE BACKGROUND TO BE SUCCESSFUL IN THE COURSE.

COMPSCI 690Q
QUANTUM INFORMATION SYSTEMS
Donald Towsley

COMPSCI 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>.

SPIRE REGISTRATION INFORMATION for 2022 Fall

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COMPSCI 692V
S-MAKING SENSE/VISUAL DATA
Kyle Cave, Ya Xiong

COMPSCI GRADUATE STUDENTS ONLY.

CROSS-LISTED WITH PSYCH 891V. DESIGNED TO GIVE RESEARCHERS IN COMPUTER SCIENCE AND COGNITIVE PSYCHOLOGY AN OPPORTUNITY TO INTERACT AND TRADE IDEAS AND RESEARCH METHODOLOGIES. PSYCH 891V FOR PBS GRADUATE STUDENTS. OTHER GRADUATE OR UNDERGRADUATE STUDENTS WITH INSTRUCTOR APPROVAL. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <https://www.cics.umass.edu/overrides>.

COMPSCI 701
ADV TOPICS IN COMPSCI

DOCTORAL, MASTERS COMPSCI 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>

COMPSCI 701Y
ADV TOPICS IN COMPSCI (1ST SEM)

DOCTORAL, MASTERS COMPSCI GRADUATE STUDENTS ONLY.

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: <https://www.cics.umass.edu/content/registration>

COMPSCI 879
TEACH ASSTS-TOMORROW'S FACULTY
Neena Thota

CREDIT CHANGE FROM 1 TO 2 CREDITS, EFFECTIVE FALL 2022. 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.

COMPSCI 891M
S-THEORY OF COMPUTATION
Cameron Musco

DOCTORAL, MASTERS GRADUATE STUDENTS ONLY.

MAY BE REPEATED FOR CREDIT UP TO 6 TIMES. UNDERGRADUATES AND STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <https://www.cics.umass.edu/overrides>.

COMPSCI 899
PHD DISSERTATION

COURSE OPEN ONLY TO CS GRADUATE STUDENTS WHO HAVE PASSED PORTFOLIO. REQUEST OVERRIDE VIA THE SPECIAL ON-LINE FORM: <https://www.cics.umass.edu/content/registration>

COMPSCI H311
INTRO TO ALGORITHMS (COLLOQ)
Marius Minea

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).

COMMONWEALTH HONORS COLLEGE JUNIOR AND SENIOR CS AND MATH MAJORS ONLY.

DEPARTMENT CONSENT REQUIRED. INTERESTED STUDENTS MUST COMPLETE OVERRIDE REQUEST VIA ONLINE FORM. NO OPTION FOR PASS/FAIL. STUDENTS MUST BE ENROLLED IN COMPSCI 311 (OR HAVE COMPLETED COMPSCI 311 WITH A GRADE OF B OR BETTER). OVERRIDES VIA THE ON-LINE FORM: <https://www.cics.umass.edu/overrides>.

COMPSCI H377
HNRS COLLOQ: OPERATING SYSTEMS
Timothy Richards

COMPSCI 230 WITH A GRADE OF C OR BETTER (OR COMPSCI 377 WITH A GRADE OF B OR BETTER).

OPEN TO SENIOR AND JUNIOR COMMONWEALTH HONORS COLLEGE CS MAJORS ONLY.

NO OPTION FOR PASS/FAIL. STUDENTS MUST BE ENROLLED IN COMPSCI 377 (OR HAVE COMPLETED COMPSCI 377 WITH A GRADE OF B OR BETTER). REQUEST OVERRIDE VIA THE ON-LINE FORM: <https://www.cics.umass.edu/overrides>.

SPIRE REGISTRATION INFORMATION for 2022 Fall

PREREQUISITES

ELIGIBILITY RESTRICTIONS

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

COMPSCI H589
HNRS COLLOQ: MACHINE LEARNING
Bruno Castro da Silva

[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.]
OR [COMPSCI 589 WITH A B OR BETTER.]

COMMONWEALTH HONORS COLLEGE JUNIOR AND SENIOR CS MAJORS ONLY.

DEPARTMENT CONSENT REQUIRED. INTERESTED STUDENTS MUST COMPLETE OVERRIDE REQUEST VIA ONLINE FORM. NO OPTION FOR PASS/FAIL. STUDENTS MUST BE ENROLLED IN COMPSCI 589 (OR HAVE COMPLETED COMPSCI 589 WITH A GRADE OF B OR BETTER). OVERRIDES VIA THE ON-LINE FORM: <https://www.cics.umass.edu/overrides>.

INFO 101
INTRO TO INFORMATICS
Michelle Trim

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
Peter Haas

INFORM MAJORS ONLY.

CS AND MATH/STAT 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
Cole Reilly

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.

Open to Informatics Majors only.

Open to Informatics majors only until after New Student Orientation completes. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <https://www.cics.umass.edu/overrides>

INFO 190T
INTRO DATA STRCTRS IN PYTHON
Neena Thota

INFO 190S WITH A GRADE OF C OR BETTER.

INFORM MAJORS ONLY.

USE OF PERSONAL LAPTOP IN CLASS IS REQUIRED. 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

INFORM 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>.