SPIRE REGISTRATION INFORMATION for 2021 Spring

	PREREQUISITES	ELIGIBILITY RESTRICTIONS	CLASS NOTES/COMMENTS *INFORMATION ONLY - DOES NOT AFFECT SPIRE ENROLLMENT.*
CICS 191CICS1 *FYS - CICS* *Rik Sengupta*		FIRST-YEAR CICS STUDENTS ONLY.	REGISTRATION AVAILABLE ONLY DURING NEW STUDENT ORIENTATION.
CICS 197R ST-INTRO TO DATA ANALYSIS IN R *Jasper McChesney*		NON-COMPSCI MAJORS ONLY.	COURSE RUNS FOR 6 WEEKS (2/1/21-3/12/21: 2/2, 2/4, 2/9, 2/11, 2/16, 2/18, 2/23, 2/25, 3/2, 3/4, 3/9, 3/11). AFTER SOPHOMORE AND FRESHMEN STUDENTS REGISTER, 197R WILL OPEN TO ALL NON-CS UNDERGRADUATES, IF AVAILABLE SEATS. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides.
CICS 298A P-LEADRSHP:COMMUNCTNG-EXPRTISE *Emma Anderson*	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: https://www.cics.umass.edu/overrides.
CICS 305 SOC ISS IN CMPTNG *Siobhan Mei, Justin Obara, Thomas Pickering, 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. 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: https://www.cics.umass.edu/overrides.
CICS 490E EMBER INTRO TO RES METH CMPTNG *Michelle Trim*	COMPSCI 186 OR COMPSCI 187 WITH A GRADE OF C OR BETTER.	CS AND INFORM MAJORS ONLY.	INSTRUCTOR CONSENT REQUIRED. OPEN TO MHC STUDENTS. THIS COURSE WILL MEET ONCE A WEEK FOR ONE HOUR, AND EACH HOUR WILL HAVE ONE WORKSHOP TOPIC. TO EXPRESS YOUR INTEREST TO ENROLL IN THIS 1-CREDIT RESEARCH EXPERIENCE COURSE, PLEASE FILL OUT THIS FORM: https://forms.gle/M4zoScpVVnRPUSGF6.
COMPSCI 119 INTRO PROGRAMMING *William Verts*		FRESHMAN AND SOPHOMORE NON-CS MAJORS ONLY.	CS MAJORS ARE NOT ELIGIBLE FOR THIS COURSE. AFTER SOPHOMORE AND FRESHMEN STUDENTS REGISTER, 119 MAY OPEN TO ALL UNDERGRADUATES IF AVAILABLE SEATS. STUDENTS STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides.
COMPSCI 121 PROBLEM SOLVING W/COMPUTERS *David Barrington, Eduardo Calle Ortiz, Joseph Canning, Meng-Chieh Chiu, Jaime Davila, Collin Giguere, Adam Kohan, Ghazaleh Parvini, Cheryl Swanier*	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). SECTIONS 5, 7, AND 9 WILL MEET FACE-TO-FACE. 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: https://www.cics.umass.edu/overrides.
COMPSCI 145 REP,STORNG&RET INFO *William Verts*	R1 GEN ED COMPLETED.	UNDERGRADUATE NON-CS MAJORS ONLY.	CS MAJORS ARE NOT ELIGIBLE FOR THIS COURSE. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides.
COMPSCI 186 USING DATA STRUCTURES *Peter Klemperer, Marc Liberatore*	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.	LECT 01 WILL MEET FACE-TO-FACE. LECT 02 IS FULLY REMOTE BUT SPACE IS LIMITED. IF SEATS ARE NOT AVAILABLE, PLEASE REQUEST AN OVERRIDE. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides.

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COMPSCI 187 PROGRAMMING W/DATA STRCTRS *Gordon Anderson, Neena Thota*	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 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. LABS 99LN, LZ, NL NN, NS ARE FACE-TO-FACE. 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 *Meng-Chieh Chiu, J Moss, Timothy Richards*		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.
COMPSCI 220 PGMG METHODOLOGY *Meng-Chieh Chiu, Marius Minea, Cheryl Swanier*	COMPSCI 187 WITH A GRADE OF 'C' OR BETTER.	CS MAJORS ONLY.	STUDENTS ARE STRONGLY ADVISED NOT TO TAKE 220 AND 230 IN THE SAME SEMESTER. DUE TO ENROLLMENT PRESSURE, THE UPC RESERVES THE RIGHT TO DROP STUDENTS ENROLLED IN BOTH FROM EITHER COURSE WHEN NECESSARY. LABORATORY SECTION -01LL WILL MEET FACE-TO-FACE. 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 230 CMPTR SYS PRINC *Matthew Rattigan, Timothy Richards*	COMPSCI 187 WITH A GRADE OF 'C' OR BETTER.	CS MAJORS ONLY.	STUDENTS ARE STRONGLY ADVISED NOT TO TAKE 220 AND 230 IN THE SAME SEMESTER. DUE TO ENROLLMENT PRESSURE, THE UPC RESERVES THE RIGHT TO DROP STUDENTS ENROLLED IN BOTH FROM EITHER COURSE WHEN NECESSARY. LABORATORY SECTION -01LS WILL MEET FACE-TO-FACE. 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 *Shiting Lan, Zachary While*	COMPSCI 187 AND MATH 132 WITH A GRADE OF 'C' OR BETTER.	CS MAJORS ONLY.	STUDENTS ARE STRONGLY ADVISED NOT TO TAKE 240 AND 250 IN THE SAME SEMESTER. DUE TO ENROLLMENT PRESSURE, THE UPC RESERVES THE RIGHT TO DROP STUDENTS ENROLLED IN BOTH FROM EITHER COURSE WHEN NECESSARY. DISCUSSION -01AE MEETS FACE-TO-FACE. 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 250 INTRO TO COMPUTATION *Hia Ghosh, Ghazaleh Parvini*	COMPSCI 187 AND MATH 132 WITH GRADE OF 'C' OR BETTER.	CS AND MATH MAJORS ONLY.	STUDENTS ARE STRONGLY ADVISED NOT TO TAKE 240 AND 250 IN THE SAME SEMESTER. DUE TO ENROLLMENT PRESSURE, THE UPC RESERVES THE RIGHT TO DROP STUDENTS ENROLLED IN BOTH FROM EITHER COURSE WHEN NECESSARY. OPEN TO CSENG MAJORS WITH ECE 241 (OR ECE 242) WITH C OR BETTER, IF AVAILABLE SEATS. DISCUSSION -02AC MEETS FACE-TO-FACE. 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 311 INTRO TO ALGORITHMS *Hung Le, Marius Minea*	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 *Gordon Anderson, David Fisher*	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 326 WEB PROGRAMMING *Peter Klemperer*	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.

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COMPSCI 328 MOBILE HEALTH SENSING&ANALYTCS *Deepak Ganesan*	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: https://www.cics.umass.edu/overrides.
COMPSCI 345 PRACT & APPLICS OF DATA MGMT *Jaime Davila*	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 370 INTRO TO COMPUTER VISION *Subhransu Maji*	COMPSCI 240 OR COMPSCI 383 WITH A GRADE OF 'C' OR BETTER.	JUNIOR AND SENIOR CS MAJORS ONLY.	A BACKGROUND IN LINEAR ALGEBRA (MATH 235) IS RECOMMENDED. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides.
COMPSCI 377 OPERATING SYSTEMS *Timothy Richards*	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 *Matthew Rattigan*	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 390A INTRO TO MACHINE LEARNING *Philip Thomas*	COMPSCI 220 (OR COMPSCI 230), COMPSCI 240 (OR STATISTC 515), AND MATH 233, ALL WITH A GRADE OF C OR BETTER.	JUNIOR AND SENIOR CS MAJORS ONLY.	STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA ON-LINE FORM: https://www.cics.umass.edu/overrides.
COMPSCI 398A P-CREDITED INTERNSHIP			
COMPSCI 445 INFORMATION SYSTEMS *Gerome Miklau*	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 *David Fisher*	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.

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COMPSCI 453 COMPUTER NETWORKS *Parviz Kermani*	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 466 APPLIED CRYPTOGRAPHY *Adam O'Neill*	COMPSCI 311 WITH A GRADE OF C OR BETTER.	JUNIOR AND SENIOR CS MAJORS ONLY.	STUDENTS WHO HAVE TAKEN HIGHER-LEVEL MATHEMATICS (IN PARTICULAR MATH 411, MATH 455, MATH 471, OR MATH 513/COMPSCI 575) ARE PARTICULARLY INVITED TO ENROLL. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides.
COMPSCI 490S SOFTWARE ENTREPRENEURSHIP *Neena Thota*	COMPSCI 326 (OR COMPSCI 320) WITH A GRADE OF C OR BETTER.	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
COMPSCI 497S ST-SCALABLE WEB SYSTEMS *Timothy Richards*	*COMPSCI 326 WITH A GRADE OF C OR BETTER.*	*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: https://www.cics.umass.edu/overrides.*
COMPSCI 501 FORMAL LANGUAGE THEORY *David Barrington*	UNDERGRADUATES: COMPSCI 311 WITH A GRADE OF 'C' OR BETTER.	LECT 01: JUNIOR AND SENIOR CS AND MATH MAJORS ONLY. LECT 02: MS-CMPSCI STUDENTS ONLY.	LECT 01 FOR UNDERGRADS; LECT 02 FOR GRADS. IT IS RECOMMENDED THAT UNDERGRADUATE STUDENTS HAVE A B- OR BETTER IN COMPSCI 311 IN ORDER TO ATTEMPT 501. 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.
COMPSCI 508 ETHICAL CONSIDRTNS IN COMPUTNG *Michelle Trim*		MS-CMPSCI STUDENTS ONLY.	PREVIOUSLY COMPSCI 590E. SEATS HELD FOR INCOMING STUDENT REGISTRATION. UNDERGRADUATE CS MAJORS WITH INSTRUCTOR PERMISSION (COURSE COUNTS AS A CS ELECTIVE TOWARD THE BS OR BA). STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides.
COMPSCI 514 ALGORITHMS FOR DATA SCIENCE *Andrew McGregor*	UNDERGRADUATES: COMPSCI 240 AND COMPSCI 311 WITH A GRADE OF B+ 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. 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 520 THEORY AND PRACTICE-SOFTENGIN *Heather Conboy*	UNDERGRADUATES MUST HAVE COMPLETED 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: https://www.cics.umass.edu/overrides.
COMPSCI 528 *MOBILE AND UBIQ COMPUTING* *Tauhidur Rahman*	UNDERGRADUATES: COMPSCI 230 AND COMPSCI 240 WITH A GRADE OF C OR BETTER.	LECT 01: JUNIOR AND SENIOR CS MAJORS. LECT 02: MS-CMPSCI STUDENTS ONLY.	PREVIOUSLY COMPSCI 590U. LECT 01 FOR UNDERGRADS; LECT 02 FOR GRADS. SEATS HELD IN LECT 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: https://www.cics.umass.edu/overrides.

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COMPSCI 529 SOFTWARE ENGINEERING PROJ MGMT *Gordon Anderson, David Fisher*	COMPSCI 320 WITH A GRADE OF A- OR BETTER.	CS MAJORS ONLY.	MEETS WITH COMPSCI 320. EMAIL INSTRUCTOR FOR PERMISSION TO ENROLL.
COMPSCI 532 SYSTEMS FOR DATA SCIENCE *Hui Guan*	UNDERGRADUATES: COMPSCI 311, COMPSCI 345, AND COMPSCI 377, ALL WITH A GRADE OF B 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: https://www.cics.umass.edu/overrides.
COMPSCI 535 COMPUTER ARCHITECTURE *Charles Weems*	UNDERGRADUATES: COMPSCI 335 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: https://www.cics.umass.edu/overrides.
COMPSCI 546 APPLIED INFORMATION RETRIEVAL *Hamed Zamani*	UNDERGRADUATES: COMPSCI 320 AND COMPSCI 383 (OR COMPSCI 446 OR COMPSCI 585) 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 SAVED IN LECT 02 FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides.
COMPSCI 571 DATA VISUALIZATION&EXPLORATION *Ali Sarvghad Batn Moghaddam*	UNDERGRADUATES: COMPSCI 220 (OR COMPSCI 230 OR COMPSCI 326), WITH A GRADE OF C OR BETTER.	LECT 01: JUNIOR AND SENIOR CS MAJORS ONLY. LECT 02: MS-CMPSCI STUDENTS ONLY.	PREVIOUSLY COMPSCI 590V. LECT 01 FOR UNDERGRADS; LECT 02 FOR GRADS. SEATS HELD IN LECT 01 FOR JUNIOR AND SENIOR INFORM MAJORS AND IN LECT 02 FOR INCOMING GRAD STUDENT REGISTRATION. A PROPOSAL HAS BEEN SUBMITTED TO THE FACULTY SENATE TO CHANGE THE PREREQUISITE TO C OR BETTER IN COMPSCI 220 (OR COMPSCI 230 OR COMPSCI 326) AND STUDENTS WILL BE CONSIDERED, IF AVAILABLE SEATS. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides.
COMPSCI 574 INTELLIGENT VISUAL COMPUTING *Evangelos Kalogerakis*	UNDERGRADUATES: COMPSCI 311, COMPSCI 383, COMPSCI 373 (OR COMPSCI 473), ALL WITH A GRADE OF B OR BETTER.	LECT 01: JUNIOR AND SENIOR CS MAJORS ONLY. LECT 02: MS-CMPSCI STUDENTS ONLY.	PREVIOUSLY COMPSCI 590IV. MEETS WITH COMPSCI 674. LECT 01 FOR UNDERGRADS; LECT 02 FOR GRADS. SEATS SAVED IN LECT 02 FOR INCOMING GRAD STUDENT REGISTRATION. INSTRUCTOR WILL CONSIDER UNDERGRADUATES WITH ALTERNATE PREREQUISITES OF COMPSCI 589 OR COMPSCI 682 IN PLACE OF COMPSCI 373(473), IF AVALIABLE SEATS. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides.
COMPSCI 589 MACHINE LEARNING *Justin Domke*	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: https://www.cics.umass.edu/overrides.
COMPSCI 590A SYSTEM DEFENSE AND TEST *Parviz Kermani*	UNDERGRADUATES: COMPSCI 460 (OR COMPSCI 597N OR COMPSCI 660) WITH A GRADE OF C OR BETTER.	UNIV LECT 01: JUNIOR AND SENIOR CS MAJORS ONLY. UNIV LECT 02: MS-CMPSCI STUDENTS ONLY. UWW LECT 01: CMPSCI AND ECE GRADUATE STUDENTS ONLY.	WAS INFOSEC 690S. LECT 01 FOR UNDERGRADS; LECT 02 FOR GRADS. SENIOR AND JUNIOR CS MAJORS WITH COMPSCI 460 (OR COMPSCI 597N OR COMPSCI 660) WITH A GRADE OF C OR BETTER ARE ELIGIBLE. CSENG MAJORS WITH APPROPRIATE BACKGROUND WITH INSTRUCTOR PERMISSION, IF AVAILABLE SEATS. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides. UWW LECT 01: ONLINE COURSE FOR GRADUATE STUDENTS ONLY. GRADUATE STUDENTS FROM OTHER DEPARTMENTS WITH INSTRUCTOR PERMISSION, IF AVAILABLE SEATS. REGISTRATION FOR UWW SECTION: https://www.umass.edu/online/how-enroll

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COMPSCI 590J CYBER EFFECTS *Seth Landsman, Nicholas Merlino, Daniel Walters, Edward Walters, Adam Woodbury*	UNDERGRADUATES: COMPSCI 230 (OR ECE 322) AND COMPSCI 460 (OR ECE 371) BOTH WITH A GRADE OF C OR BETTER.	LECT 01: JUNIORS AND SENIORS ONLY. LECT 02: MS-CMPSCI STUDENTS ONLY. UWW LECT 01: GRADUATE CMPSCI AND ECE STUDENTS ONLY.	LECT 01 FOR UNDERGRADS; LECT 02 FOR GRADS. SEATS HELD IN LECT 02 FOR INCOMING STUDENT REGISTRATION. UNDERGRADS MAY SUBSTITUTE ANY INTRODUCTION TO COMPUTER/NETWORK SECURITY COURSE AT THE 300-LEVEL OR HIGHER WITH A GRADE OF C OR BETTER FOR ECE 371, WITH PERMISSION OF INSTRUCTOR. OTHER GRADUATE STUDENTS WITH PERMISSION OF INSTRUCTOR. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides. UWW LECT 01: OTHER GRADUATE STUDENTS WITH PERMISSION OF INSTRUCTOR.
COMPSCI 590M *INTRODUCTION TO SIMULATION* *Peter Haas*	UNDERGRADUATES: COMPSCI 187 AND STATISTC 515 WITH A GRADE OF C OR BETTER.	LECT 01: JUNIOR AND SENIOR CS MAJORS ONLY. LECT 02: MS-CMPSCI GRAD STUDENTS ONLY.	LECT 01 FOR UNDERGRADS; LECT 02 FOR GRADS. SEATS HELD IN LECT 02 FOR INCOMING GRAD STUDENTS. SOME BACKGROUND IN STOCHASTIC PROCESSES IS HELPFUL, BUT NOT REQUIRED, AS THE MATERIAL WILL BE DEVELOPED IN CLASS. INSTRUCTOR PERMISSION REQUIRED FOR UNDERGRADUATE IE MAJORS MEETING PREREQUISITES AND GRADUATE IE STUDENTS. STUDENTS NEEDING INSTRUCTOR PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides.
COMPSCI 590W HEALTH INFORMATICS/DATA SCI *Sunghoon Lee, Anthony Nunes*	COMPSCI 240 OR STATISTCS 515 WITH A GRADE OF C OR BETTER.	LECT 01: JUNIOR AND SENIOR CS AND INFORM 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: http://www.cics.umass.edu/overrides.
COMPSCI 591NR *S-NEURAL NETWRKS:NEUROSC TO AI* *Hava Siegelmann*	UNDERGRADUATES: COMPSCI 311 WITH A GRADE OF C OR BETTER.	LECT 01: JUNIOR AND SENIOR UNDERGRADUATES ONLY. LECT 02: MS-CMPSCI STUDENTS ONLY.	LECT 01 FOR UNDERGRADS; LECT 02 FOR GRADS. MEETS WITH COMPSCI 691NR. UNDERGRADUATE COURSE IN ALGORITHMS EQUIVALENT TO COMPSCI 311 IS ASSUMED FOR GRADUATE STUDENTS TAKING THIS COURSE. STUDENTS NEEDING INSTRUCTOR PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides.
COMPSCI 601 COMPUTATION THEORY *Neil Immerman*		CMPSCI GRADUATE STUDENTS ONLY.	PREREQUISITES: AN UNDERGRADUATE COURSE IN AUTOMATA THEORY AND FORMAL LANGUAGES SUCH AS COMPSCI 501 OR PERMISSION OF INSTRUCTOR. 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 603 ROBOTICS *Roderic Grupen*		CMPSCI GRADUATE STUDENTS ONLY.	A BACKGROUND IN LINEAR ALGEBRA, DIFFERENTIAL EQUATIONS, AND PROGRAMMING SKILLS ARE ASSUMED. 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 611 ADVANCED ALGORITHMS *Ramesh Sitaraman*		CMPSCI 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 645 DB DSGN & IMPLMNTN *Yanlei Diao*		CMPSCI GRADUATE STUDENTS ONLY.	STUDENTS SHOULD HAVE TAKEN AN UNDERGRADUATE LEVEL COURSE ON OPERATING SYSTEMS (COMPSCI 377) OR DATABASES(COMPSCI 445). 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 674 INTELLIGENT VISUAL COMPUTING *Evangelos Kalogerakis*		CMPSCI GRADUATE STUDENTS ONLY.	PREVIOUSLY COMPSCI 690IV. MEETS WITH COMPSCI 574. CMPSCI GRADUATES AND OTHERS ARE ASSUMED TO HAVE SUCCESSFULLY COMPLETED PREREQS OR EQUIV: COMPSCI 311, 383, AND 373 (OR 473), ALL WITH A GRADE OF A- OR BETTER. SEATS HELD FOR INCOMING GRAD STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA ON-LINE FORM: https://www.cics.umass.edu/overrides.

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COMPSCI 677 DISTRIBUTED AND OPERATING SYS _Marco Serafini_		CMPSCI 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. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides.
COMPSCI 683 ARTIFICIAL INTELLIGENCE _Yair Zick_		CMPSCI GRADUATE STUDENTS ONLY.	STUDENTS WHO HAVE TAKEN AN UNDERGRADUATE AI COURSE PREFERRED. 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 685 ADV NATURAL LANG PROCESSING _Brendan O'Connor_		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 688 PROBABILISTIC GRAPHICAL MODELS _Justin Domke_		CMPSCI GRADUATE STUDENTS ONLY.	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 690A ADVANCED METHODS IN HCI _Narges Mahyar_		CMPSCI GRADUATE STUDENTS ONLY.	WHILE THERE ARE NO SET PREREQUISITES, FAMILIARITY WITH HCI PRINCIPLES WILL BE AN ASSET. PROGRAMMING ABILITY IS EXPECTED. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides.
COMPSCI 690OP OPTIMIZATION IN CS _Madalina Fiterau Brostean_		CMPSCI GRADUATE STUDENTS ONLY.	SOME LEVEL OF MATHEMATICAL MATURITY, SUCH AS EXPOSURE TO UNDERGRADUATE LEVEL CALCULUS AND LINEAR ALGEBRA, IS DESIRABLE. STUDENTS ARE EXPECTED TO BE FAMILIAR WITH A HIGH-LEVEL PROGRAMMING LANGUAGE. 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 690W ADV WRLSS NTWK AND SNSNG IN IOT _Jie Xiong_		CMPSCI GRADUATE STUDENTS ONLY.	CMPSCI GRADUATE STUDENTS ARE EXPECTED TO HAVE AN UNDERGRADUATE PREPARATION EQUIVALENT TO COMPSCI 230, 240, AND EITHER COMPSCI 328, 333 (PREVIOUSLY 390N), OR 453. AFTER CS GRADS HAVE ENROLLED, INSTRUCTOR WILL CONSIDER ECE GRAD STUDENTS, IF AVAILABLE SEATS. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides.
COMPSCI 691DD S-RESEARCH METHDS-EMPIRCAL CS _David Jensen_		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 691NR _S-NEURAL NETWRKS:NEUROSC TO AI_ _Hava Siegelmann_		CMPSCI GRADUATE STUDENTS ONLY.	MEETS WITH COMPSCI 591NR. UNDERGRADUATE COURSE IN ALGORITHMS EQUIVALENT TO COMPSCI 311 IS ASSUMED. STUDENTS NEEDING INSTRUCTOR PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides.

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COMPSCI 692B S-ONLINE LEARNG-INFRNC-DST SYS *Donald Towsley*			
COMPSCI 697M ST-FIXING SOCIAL MEDIA *Ethan Zuckerman*		CMPSCI GRADUATE STUDENTS ONLY.	MEETS WITH COMM 697M AND SPP 697M.
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
COMPSCI 701Y ADV TOPICS IN CMPSCI (1ST SEM)		DOCTORAL, MASTERS CMPSCI 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 891M S-THEORY OF COMPUTATION *Neil Immerman*		DOCTORAL, MASTERS GRADUATE STUDENTS ONLY.	MAY BE REPEATED FOR CREDIT UP TO 6 TIMES. OTHERS NOT MEETING ELIGIBILITY, OR 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 H250 HNRS COLLOQ: INTRO COMPUTATION *David Barrington*	*COMPSCI 187 AND MATH 132 WITH A GRADE OF C OR BETTER (OR COMPSCI 250 WITH A GRADE OF B OR BETTER).*	COMMONWEALTH HONORS COLLEGE CS AND MATH MAJORS ONLY.	NO OPTION FOR PASS/FAIL. STUDENTS MUST BE ENROLLED IN COMPSCI 250 (OR HAVE COMPLETED COMPSCI 250 WITH A GRADE OF B OR BETTER). OTHER CHC MAJORS CONSIDERED IF AVAILABLE SEATS. REQUEST OVERRIDE VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides.
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.	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: https://www.cics.umass.edu/overrides.
COMPSCI H446 HNRS COLLOQ: SEARCH ENGINES *David Fisher*	*COMPSCI 240 OR COMPSCI 383 WITH A GRADE OF C OR BETTER (OR COMPSCI 446 WITH A GRADE OF B OR BETTER).*	*COMMONWEALTH HONORS COLLEGE JUNIOR AND SENIOR CS MAJORS ONLY.*	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: https://www.cics.umass.edu/overrides.

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INFO 150 MATH FOUND-INFORMATICS *Mohammadhassan Hajiesmaili*		UNDERGRADUATE NON-CS AND NON-MATH/STATS MAJORS ONLY.	CS AND MATH/STATS MAJORS ARE NOT ELIGIBLE FOR THIS COURSE. 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 197P ST-PROG IN PYTHON FOR DATA SCI *Emma Anderson*	COMPSCI 121 WITH A GRADE OF C OR BETTER.	INFORM MAJORS ONLY.	AFTER INFORM MAJORS HAVE ENROLLED, INSTRUCTOR PLANS TO OPEN 197P TO NON-CS MAJORS, IF AVAILABLE SEATS. BEFORE SUBMITTING OVERRIDE, TRY TO SELF-ENROLL BETWEEN NOVEMBER 18-30. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides.
INFO 248 INTRO TO DATA SCIENCE *Gordon Anderson*	COMPSCI 121 AND PSYCH 240 (OR OIM 240, OR STATISTCS 240, OR STATISTCS 515, OR RES-ECON 212, OR SOCIOL 212) BOTH WITH A GRADE OF C OR BETTER.	INFORM MAJORS ONLY.	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: https://www.cics.umass.edu/overrides.
INFO 490C INTRO SOC&CULTURAL ANALYTICS *Laure Thompson*	INFO 248 WITH A GRADE OF C OR BETTER.	INFORM MAJORS ONLY.	PERMISSION OF INSTRUCTOR IF NOT MEETING PREREQUISITE. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides.
INFO 690C INTRO SOC&CULTURAL ANALYTICS *Laure Thompson*		PHD GRADUATE STUDENTS ONLY, EXCLUDING CS.	BASIC EXPERIENCE WITH PYTHON, INTRODUCTORY DATA SCIENCE, OR OTHER INTRODUCTORY PROGRAMMING EXPERIENCE IS RECOMMENDED BUT NOT REQUIRED. ALL REQUIRED PROGRAMMING AND STATISTICAL CONCEPTS WILL BE INTRODUCED IN THIS COURSE. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides.