	PREREQUISITES	ELIGIBILITY RESTRICTIONS	CLASS NOTES/COMMENTS INFORMATION ONLY - DOES NOT AFFECT
CICS 110 FOUNDATIONS OF PROGRAMMING Kirat Arora, Meng-Chieh Chiu, Hasnain Heickal, Maximillian Kuechen, Cole Reilly	COMPLETION OF THE R1 GEN ED (OR A SCORE OF 15 OR HIGHER ON THE MATH PLACEMENT TEST PART A), OR ONE OF THE FOLLOWING COURSES: MATH 101&102 OR MATH 104 OR MATH 127 OR MATH 128 OR MATH 131 OR MATH 132.	OPEN TO FRESHMAN, SOPHOMORE AND JUNIOR COMPSCI, INFORM, MATH, PHYSICS, COMP LINGUISTICS AND STATS & DATA SCIENCE MAJORS.	STUDENTS ARE NOT PERMITTED TO TAKE CICS 110 AFTER SUC COMPLETING COMPSCI 121. AFTER ELIGIBLE CS, INFORM, MAT CMPLING AND STATS & DATA SCI MAJORS HAVE ENROLLED, WI UNDERGRADUATE FRESHMEN, SOPHOMORE, AND JUNIORS, IF FRESHMEN, SOPHOMORE, AND JUNIORS IN OTHER MAJORS SH THE ELIGIBILITY RESTRICTION TO BE REMOVED TO SELF-ENRO NOT REQUEST AN OVERRIDE. LEC 01 IS RESERVED FOR STUDI ONLY. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUE THE ON-LINE FORM: https://www.cics.umass.edu/academics/course-
CICS 127 INTRO TO PUBLIC INTEREST TECH Emily Nutwell		STUDENTS REGISTERED FOR THE PUBLIC INTEREST TECHNOLOGY RAP IN LEACH HALL.	THIS COURSE COUNTS TOWARDS THE IT MINOR AND IS REQUINUNDERGRADUATE CERTIFICATE.
CICS 160 OBJECT-ORIENTED PROGRAMMING Cole Reilly, Ella Tuson	CICS 110 (PREVIOUSLY INFO 190S) OR COMPSCI 121 WITH A GRADE OF C OR BETTER.	FRESHMEN, SOPHOMORE AND JUNIOR CS, INFORM, COMP LING OR MATH MAJORS IN THE MATHCMPTNG SUBPLAN ONLY.	STUDENTS ARE NOT PERMITTED TO TAKE CICS 160 AFTER SUC COMPLETING COMPSCI 186. USE OF PERSONAL LAPTOP IN CL/ AFTER ELIGIBLE CS, INFORM AND COMP LING MAJORS HAVE EN OPEN TO OTHER MAJORS, IF AVAILABLE SEATS. ELIGIBLE NON WAIT FOR THE MAJOR ELIGIBILITY RESTRICTION TO BE REMOV AND SHOULD NOT REQUEST AN OVERRIDE. STUDENTS NEEDIN PERMISSION MUST REQUEST OVERRIDE VIA THE ON-LINE FORI umass.edu/academics/course-overrides
CICS 208 DEFEND DEMOCRACY-DIGITAL WORLD Ethan Zuckerman			PREVIOUSLY CICS 297DP. CROSS-LISTED WITH SPP 208 AND C STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OV ON-LINE FORM: https://www.cics.umass.edu/academics/course-overr
CICS 210 DATA STRUCTURES Mordecai Golin, Marc Liberatore	CICS 160 (PREVIOUSLY INFO 190T) WITH A GRADE OF C OR BETTER.	FRESHMEN, SOPHOMORE AND JUNIOR CS, INFORM, COMP LING OR MATH MAJORS IN THE MATHCMPTNG SUBPLAN ONLY.	STUDENTS ARE NOT PERMITTED TO TAKE CICS 210 AFTER SUC COMPLETING COMPSCI 187. AFTER ELIGIBLE CS, INFORM AND HAVE ENROLLED, WILL OPEN TO OTHER FRESHMEN, SOPHOMO IF AVAILABLE SEATS. ELIGIBLE NON-CS, NON-INFORM AND NON MAJORS SHOULD WAIT FOR THE MAJOR ELIGIBILITY RESTRICT REMOVED TO SELF-ENROLL AND SHOULD NOT REQUEST AN ON STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OV ON-LINE FORM: https://www.cics.umass.edu/academics/course-over
CICS 237 INTRO RESRCH IN THE DISCIPLINE Neena Thota			ERSP PROGRAM PARTICIPANTS ONLY. STUDENTS CAN APPLY APPLICATION PERIOD AND BE ACCEPTED TO THE PROGRAM AT FIRST YEAR (SPRING TERM). THEY ARE THEN ENROLLED IN TH FALL OF THE SECOND YEAR. STUDENTS DO NOT SELF ENROLL PROGRAM PARTICIPANTS INTERESTED IN ENROLLING SHOULD INSTRUCTOR WHO WILL PROVIDE CICS ACADEMIC PROGRAMS REGISTRATION.
CICS 256 MAKE: PHYSICAL COMPUTING STAFF	CICS 210 (OR COMPSCI 187) WITH A GRADE OF C OR BETTER AND BASIC MATH SKILLS (R1).	FRESHMAN, SOPHOMORE AND JUNIOR BS-CS MAJORS ONLY.	NO OPTION FOR PASS/FAIL. THIS COURSE HAS A REQUIRED LA COUNTS TOWARD THE CS LAB SCIENCE REQUIREMENT FOR TH OFFERING IS OPEN TO JUNIOR, SOPHOMORE AND FRESHMEN E ONLY. STUDENTS NEEDING SPECIAL PERMISSION MUST REQU THE ON-LINE FORM: https://www.cics.umass.edu/academics/course
CICS 291C S-FIND STRENGTHS/DESIGN CAREER Casey Maloney		CS AND INFORM SOPHOMORES AND JUNIORS ONLY	MANDATORY PASS/FAIL. STUDENTS NEEDING SPECIAL PERMIS REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.u edu/academics/course-overrides
CICS 291T S-CICS TRANSFER SUCCESS Emma Anderson			DEPARTMENT CONSENT REQUIRED: OPEN TO INCOMING CS AI TRANSFER STUDENTS ONLY.

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SUCCESSFULLY MATH, PHYSICS, , WILL OPEN TO ALL S, IF AVAILABLE SEATS. S SHOULD WAIT FOR NROLL AND SHOULD "UDENTS IN FIERCE RAP QUEST OVERRIDES VIA Irse-overrides.

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SUCCESSFULLY CLASS IS REQUIRED. E ENROLLED, WILL NON-MAJORS SHOULD MOVED TO SELF-ENROLL EDING SPECIAL ORM: https://www.cics.

D COMM 208. OVERRIDES VIA THE overrides

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D LAB SECTION AND R THE BS-CS. THIS EN BS-CS MAJORS EQUEST OVERRIDES VIA urse-overrides.

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	PREREQUISITES	ELIGIBILITY RESTRICTIONS	CLASS NOTES/COMMENTS INFORMATION ONLY - DOES NOT AFFEC
CICS 298A P-LEADRSHP:COMMUNCTNG-EXPRTISE Emma Anderson	CICS 160, COMPSCI 186, OR COMPSCI 187, OR CICS 210 WITH A GRADE OF C OR BETTER.	CS AND INFORM MAJORS ONLY.	STUDENTS IN OTHER MAJORS MAY BE CONSIDERED IF AVAIL/ STUDENTS FROM OTHER MAJORS MAY BENEFIT FROM THIS C NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES FORM: https://www.cics.umass.edu/academics/course-overrides
CICS 305 SOC ISS IN CMPTNG Erin Butler, Michelle Ciccone, Elizabeth Gunther, Siobhan Meï, Justin Obara, Christina Sutcliffe	CS MAJORS: ENGLWRIT 112 WITH A GRADE OF C OR BETTER (OR ENGLISH WRITING WAIVER) AND COMPSCI 220, COMPSCI 230 AND EITHER COMPSCI 240 OR COMPSCI 250. INFORM MAJORS: ENGLWRIT 112 WITH A GRADE OF C OR BETTER (OR ENGLISH WRITING WAIVER) AND INFO 248.	ODD LECS: SENIOR AND JUNIOR CS MAJORS ONLY. RESTRICTED TO CS PRIMARY MAJORS. EVEN LECS: SENIOR AND JUNIOR INFORMATICS MAJORS ONLY. RESTRICTED TO INFORMATICS PRIMARY MAJORS.	SATISFIES JUNIOR YEAR WRITING REQUIREMENT. ODD LECT MAJORS; EVEN LECTURES FOR INFORM MAJORS. ELIGIBILITY INFORM PRIMARY MAJORS ONLY. CS AND INFORM SECONDAI TAKE JUNIOR YEAR WRITING COURSE WITHIN PRIMARY MAJO LECT 01-02 MEET TOGETHER; LECT 03-04, ETC. SPIRE WILL O THE ENGLWRIT112 PREREQUISITE WHEN TAKEN AT UMASS AI MAJORS WITH AP CREDIT, TRANSFER CREDIT, OR A WAIVER F WHO MEET THE OTHER STATED PREREQUISITES WILL NEED A ENROLL VIA THE OVERRIDE FORM: https://www.cics.umass.edu/a overrides
CICS 398T P-CPT		UNDERGRADUATE CS AND INFORM MAJORS ONLY.	INTERNATIONAL UNDERGRADUATE STUDENTS SHOULD REFE WEBSITE FOR DETAILS ABOUT CURRICULAR PRACTICAL TRAIL DETAILS ABOUT REGISTRATION AND THE CPT APPLICATION P MAJORS: https://cicscareers.notion.site/CPT-Process-for-Internship. c0f1d14ccfe5448ba786583a49993209
CICS 598T P-CPT		CMPSCI GRADUATE STUDENTS ONLY.	COMPUTER SCIENCE GRADUATE STUDENTS INTERESTED IN F SUBMIT AN EXPERIENTIAL LEARNING REQUEST IN SPIRE. ST GRADUATE STUDENTS FOR FALL AND SPRING IN THE UNIV SE WINTER AND SUMMER IN THE UWW SECTION. DETAILS ABOU THE CPT APPLICATION PROCESS FOR CMPSCI GRADUATE ST //cicscareers.notion.site/CPT-Process-for-Internships-c0f1d14ccfe544
COMPSCI 119 INTRO PROGRAMMING Prit Pritam Shah		FRESHMEN AND SOPHOMORE NON-CS MAJORS ONLY.	CS MAJORS ARE NOT ELIGIBLE FOR THIS COURSE. AFTER SC FRESHMEN REGISTER, WILL OPEN TO JUNIORS. NON-CS JUN FOR THE ELIGIBILITY RESTRICTION TO BE REMOVED TO SELF SHOULD NOT REQUEST AN OVERRIDE. STUDENTS NEEDING S MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://w edu/academics/course-overrides
COMPSCI 198C P-INTRO-C PROGRAMMING LANGUAGE Meng-Chieh Chiu, Timothy Richards	CICS 160 (PREVIOUSLY INFO 190T OR COMPSCI 186 OR CICS 210) WITH A GRADE OF C OR BETTER OR COMPSCI 121 WITH A GRADE OF B OR BETTER.	FRESHMEN, SOPHOMORE, AND JUNIORS ONLY.	STARTING FALL 2023, PASSING COMPSCI 198C IS A REQUIRED COMPSCI 230. STUDENTS WITH AP OR TRANSFER CREDIT FO NEED AN OVERRIDE FOR REGISTRATION. STUDENTS NEEDIN PERMISSION MUST REQUEST OVERRIDE VIA THE ON-LINE FOF umass.edu/academics/course-overrides
COMPSCI 220 PGMG METHODOLOGY Jaime Davila, James Perretta) CICS 210 (OR COMPSCI 187) WITH A GRADE OF C OR BETTER.	CS MAJORS ONLY.	SEATS ARE BEING SAVED FOR INCOMING TRANSFER STUDEN OF NEW STUDENT ORIENTATION AND TRANSFER (NSOT) ENR REMAINING SEATS WILL BE RELEASED PRIOR TO CLASS STAI SEATS WILL BE RELEASED AT THAT TIME. STUDENTS NEEDIN PERMISSION MUST REQUEST OVERRIDE VIA THE ON-LINE FOR umass.edu/academics/course-overrides
COMPSCI 230 CMPTR SYS PRINC Phuthipong Bovornkeeratiroj, Meng-Chieh Chiu	CICS 210 (OR COMPSCI 187) WITH A GRADE OF C OR BETTER AND COMPSCI 198C.	CS MAJORS ONLY.	STARTING FALL 2023, PASSING COMPSCI 198C IS A REQUIRED PREREQUISITE. SEATS ARE BEING SAVED FOR INCOMING TRA UNTIL THE END OF NEW STUDENT ORIENTATION AND TRANSF ENROLLMENT PERIOD. REMAINING SEATS WILL BE RELEASED START. STUDENTS NEEDING SPECIAL PERMISSION MUST REC THE ON-LINE FORM: https://www.cics.umass.edu/academics/course
COMPSCI 240 RSNG UNDER UNCERTAINTY Shiting Lan, Ghazaleh Parvini, Gayane Vardoyan	CICS 160 (PREVIOUSLY INFO 190T OR COMPSCI 187 OR CICS 210) AND MATH 132, BOTH WITH A GRADE OF C OR BETTER.	CS AND COMP LING MAJORS ONLY.	SEATS ARE BEING SAVED FOR INCOMING TRANSFER STUDEN NEW STUDENT ORIENTATION AND TRANSFER (NSOT) ENROLL REMAINING SEATS WILL BE RELEASED PRIOR TO CLASS STAR NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDE VI https://www.cics.umass.edu/academics/course-overrides

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ECTURES FOR CS LITY LIMITED TO CS AND NDARY MAJORS MUST AJOR DEPARTMENT. ILL ONLY RECOGNIZE S AMHERST. ELIGIBLE ER FOR ENGLWRIT112 ED ASSISTANCE TO edu/academics/course-

EFER TO THE IPO RAINING (CPT). SEE N PROCESS FOR CS ships-

IN PURSUING CPT MUST STAFF WILL ENROLL / SECTION AND FOR OUT REGISTRATION AND STUDENTS: https: e5448ba786583a49993209

SOPHOMORE AND UNIORS SHOULD WAIT ELF-ENROLL AND IG SPECIAL PERMISSION ://www.cics.umass.

RED PREREQUISITE FOR FOR COMPSCI 121 WILL DING SPECIAL FORM: https://www.cics.

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	PREREQUISITES	ELIGIBILITY RESTRICTIONS	CLASS NOTES/COMMENTS INFORMATION ONLY - DOES NOT AFFEC
COMPSCI 250 INTRO TO COMPUTATION David Barrington, Mordecai Golin	CICS 160 (PREVIOUSLY INFO 190T OR COMPSCI 187 OR ECE 241 OR CICS 210) AND MATH 132, BOTH WITH A GRADE OF C OR BETTER.	CS AND MATH MAJORS ONLY.	SEATS ARE BEING SAVED FOR INCOMING TRANSFER STUDEN NEW STUDENT ORIENTATION AND TRANSFER (NSOT) ENROLLI REMAINING SEATS WILL BE RELEASED PRIOR TO CLASS STAR NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDE VI, https://www.cics.umass.edu/academics/course-overrides
COMPSCI 311 INTRO TO ALGORITHMS Ghazaleh Parvini, Hava Siegelmann	CICS 210 (OR COMPSCI 187) AND COMPSCI 250 (OR MATH 455), BOTH WITH A GRADE OF C OR BETTER.	SOPHOMORE, JUNIOR AND SENIOR CS, INFORM, COMP LING OR MATH MAJORS IN THE MATHCMPTNG SUBPLAN ONLY.	SEATS ARE BEING SAVED FOR INCOMING TRANSFER STUDEN OF NEW STUDENT ORIENTATION AND TRANSFER (NSOT) ENRO AFTER JUNIOR AND SENIOR CS MAJORS REGISTER, WILL OPE SOPHOMORE CS MAJORS SHOULD WAIT FOR THE ELIGIBILITY REMOVED TO SELF-ENROLL AND SHOULD NOT REQUEST AN C REMAINING SEATS WILL BE RELEASED PRIOR TO CLASS STAR NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDE VI FORM: https://www.cics.umass.edu/academics/course-overrides.
COMPSCI 320 INTRO TO SOFTWARE ENGINEERING Gordon Anderson, Madeline Endres, James Perretta	COMPSCI 220 WITH GRADE OF C OR BETTER.	JUNIOR AND SENIOR CS MAJORS ONLY.	NO OPTION FOR PASS/FAIL. SATISFIES INTEGRATIVE EXPERIE FOR CS MAJORS. MEETS WITH COMPSCI 429. GRADUATING S PRIORITIZED AND PRE-ENROLLED BY THE PROGRAM. SEATS / FOR INCOMING TRANSFER STUDENTS UNTIL THE END OF NEW ORIENTATION AND TRANSFER (NSOT) ENROLLMENT PERIOD. / SENIOR CS MAJORS REGISTER, WILL OPEN TO SOPHOMORES. MAJORS SHOULD WAIT FOR THE ELIGIBILITY RESTRICTION TO SELF-ENROLL AND SHOULD NOT REQUEST AN OVERRIDE. REM BE RELEASED PRIOR TO CLASS START. STUDENTS NEEDING S MUST REQUEST OVERRIDE VIA THE ON-LINE FORM: https://www edu/academics/course-overrides
COMPSCI 325 INTRO TO HUMAN CMPTR INTERACTN Ella Tuson	CS MAJORS: CICS 210 (OR COMPSCI 187) WITH A GRADE OF C OR BETTER. INFORM MAJORS: INFO 248 AND CICS 160 (PREVIOUSLY INFO 190T OR COMPSCI 186 OR COMPSCI 187), BOTH WITH A GRADE OF C OR BETTER.	JUNIOR AND SENIOR CS AND INFORM MAJORS ONLY.	SEATS SAVED FOR INFORM MAJORS AND INCOMING TRANSFE THE END OF NEW STUDENT ORIENTATION AND TRANSFER (NS PERIOD AT THE END OF JULY. REMAINING SEATS WILL BE REL TIME. STUDENTS NEEDING SPECIAL PERMISSION MUST REQU THE ON-LINE FORM: https://www.cics.umass.edu/academics/course
COMPSCI 326 WEB PROGRAMMING Timothy Richards	COMPSCI 220 (OR COMPSCI 230) WITH A GRADE OF C OR BETTER.	JUNIOR AND SENIOR CS AND INFORM MAJORS ONLY.	U1 LEC 01 IS HYBRID. STUDENTS IN LEC 01 WILL ATTEND CLAS TUESDAYS AND THURSDAYS. UO1 LEC 01 IS FULLY ONLINE AN REQUIRED TO WATCH LECTURES SYNCHRONOUSLY ON TUES. THURSDAYS. REQUIRED LABORATORY ATTENDANCE IS ON-LI SYNCHRONOUSLY FOR BOTH SECTIONS. NO OPTION FOR PAS INTEGRATIVE EXPERIENCE REQUIREMENT FOR CS AND INFOR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST O ON-LINE FORM: https://www.cics.umass.edu/academics/course-ove
COMPSCI 328 MOBILE HEALTH SENSING&ANALYTCS Deepak Ganesan	CS MAJORS: CICS 210 (OR COMPSCI 187) WITH A GRADE OF C OR BETTER. INFORM MAJORS: INFO 248 AND CICS 160 (PREVIOUSLY INFO 190T OR COMPSCI 186 OR COMPSCI 187), BOTH WITH A GRADE OF C OR BETTER.	JUNIOR AND SENIOR CS AND INFORM MAJORS ONLY.	SEATS ARE BEING SAVED FOR INCOMING TRANSFER STUDEN NEW STUDENT ORIENTATION AND TRANSFER (NSOT) ENROLLI REMAINING SEATS WILL BE RELEASED PRIOR TO CLASS STAR NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDE VI, https://www.cics.umass.edu/academics/course-overrides
COMPSCI 335 INSIDE BOX:HOW CMPTRS WORK Charles Weems	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 PREREQUIS SEATS. STUDENTS WILL NEED TO SIGN A LOAN AGREEMENT F HARDWARE KIT. STUDENTS NEEDING SPECIAL PERMISSION M OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/ overrides
COMPSCI 345 PRACT & APPLICS OF DATA MGMT Gordon Anderson, Zafeiria Moumoulidou	CS MAJORS: CICS 210 (OR COMPSCI 187) WITH A GRADE OF C OR BETTER. INFORM MAJORS: INFO 248 AND CICS 160 (PREVIOUSLY INFO 190T OR COMPSCI 186 OR COMPSCI 187), BOTH WITH A GRADE OF C OR BETTER.	JUNIOR AND SENIOR CS AND INFORM MAJORS ONLY.	SEATS ARE BEING SAVED FOR INCOMING TRANSFER STUDENT NEW STUDENT ORIENTATION AND TRANSFER (NSOT) ENROLLI REMAINING SEATS WILL BE RELEASED PRIOR TO CLASS STAR EXPECTED TO HAVE BASIC PROGRAMMING SKILLS, AND BE AE IN CLASS. STUDENTS WHO HAVE TAKEN COMPSCI 445 ARE NO SHOULD NOT ENROLL. STUDENTS NEEDING SPECIAL PERMISS OVERRIDE VIA THE ON-LINE FORM: https://www.cics.umass.edu/a overrides
COMPSCI 360 INTRO COMPUTER/NETWRK SECURITY	COMPSCI 230 WITH GRADE OF C OR BETTER.	JUNIOR AND SENIOR CS MAJORS ONLY.	STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST O' ON-LINE FORM: https://www.cics.umass.edu/academics/course-ove
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OVERRIDES VIA THE overrides

	PREREQUISITES	ELIGIBILITY RESTRICTIONS	CLASS NOTES/COMMENTS INFORMATION ONLY - DOES NOT AFFE
COMPSCI 363 COMPUTER CRIME LAW Marvin Cable	COMPSCI 230 AND (ENGLWRIT 112 WITH A GRADE OF C OR BETTER, OR CW G.ED. REQUIREMENT).	JUNIOR AND SENIOR CS MAJORS ONLY.	PREVIOUSLY COMPSCI 391L. STUDENTS NEEDING SPECIAL P REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics edu/academics/course-overrides
COMPSCI 365 DIGITAL FORENSICS	COMPSCI 230 WITH A GRADE OF C OR BETTER.	JUNIOR AND SENIOR CS AND INFORM MAJORS ONLY.	AFTER SENIORS AND JUNIORS REGISTER, PROGRAM WILL CO SOPHOMORES MEETING PREREQUISITE, IF AVAILABLE SEATS AND INFORM MAJORS SHOULD WAIT FOR ELIGIBILITY TO OPE OR ADD TO THE WAITLIST AND SHOULD NOT REQUEST AN OV
Brian Levine			NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES FORM: https://www.cics.umass.edu/academics/course-overrides
COMPSCI 367	COMPSCI 230 (OR E&C-ENG 322) WITH A GRADE OF C	JUNIOR AND SENIOR CS, INFORM AND CSENG MAJORS ONLY.	PREVIOUSLY COMPSCI 390R. MEETS WITH COMPSCI 590AF B 2025. ALTHOUGH OPEN TO INFORM MAJORS, THIS COURSE E
REV ENGG&UNDRSTNDG EXPLOIT DEV			AN INFORM ELECTIVE. STUDENTS NEEDING SPECIAL PERMIS OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.ed overrides
COMPSCI 377 OPERATING SYSTEMS	COMPSCI 230 WITH A GRADE OF C OR BETTER.	JUNIOR AND SENIOR CS MAJORS ONLY.	STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST O ON-LINE FORM: https://www.cics.umass.edu/academics/course-ove
Phuthipong Bovornkeeratiroj			
COMPSCI 383	CS MAJORS: (CICS 210 OR COMPSCI 187) AND COMPSCI 240 (OR STATISTC 315), BOTH WITH A	JUNIOR AND SENIOR CS AND INFORM MAJORS ONLY.	SOME KNOWLEDGE OF PYTHON IS ASSUMED FOR ELIGIBLE S COMPSCI 187 IN PLACE OF THE CICS 210 PREREQUISITE. STU
ARTIFICIAL INTELLIGENCE	GRADE OF C OR BETTER. INFORM MAJORS: INFO 348 AND STATISTC 315,		SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE C //www.cics.umass.edu/academics/course-overrides
Scott Niekum	BOTH WITH A GRADE OF C OR BETTER.		
COMPSCI 389	CICS 210 (OR COMPSCI 187) AND (COMPSCI 240 OR STATISTC 315 OR STATISTC 240 OR PSYCH 240 OR	JUNIOR AND SENIOR CS AND INFORM MAJORS ONLY.	STUDENTS WHO HAVE COMPLETED COMPSCI 589 ARE NOT E COURSE AND SHOULD NOT ENROLL. STUDENTS WITH PRIOR
INTRO TO MACHINE LEARNING Philip Thomas	OIM 240 OR RES-ECON 212 OR SOCIOL 212) AND MATH 132, ALL WITH A GRADE OF C OR BETTER.		MACHINE LEARNING OR WHO ARE ALREADY PASSIONATE AE ARE ENCOURAGED TO TAKE COMPSCI 589 INSTEAD. ELIGIBI HAVE COMPLETED COMPSCI 187 WITH A C OR BETTER MAY I CICS 210; DO NOT REQUEST AN OVERRIDE, BUT WAIT FOR TI ON SPIRE TO SELF-ENROLL. STUDENTS NEEDING SPECIAL F REQUEST OVERRIDES VIA ON-LINE FORM: https://www.cics.un edu/academics/course-overrides
COMPSCI 403 INTRO ROBTCS:PRCP,MECH,DYN,CTRL	MATH 235 AND COMPSCI 220 (OR COMPSCI 230) WITH GRADE OF C OR BETTER.	JUNIOR AND SENIOR CS MAJORS ONLY.	UNDERGRADUATE PROGRAMMING CLASS, MATLAB OR PYTH EXPERIENCE IS PREFERRED. STUDENTS NEEDING SPECIAL P REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics
Donghyun Kim			edu/academics/course-overrides
COMPSCI 412	MATH 132 AND MATH 235 AND COMPSCI 240 (OR	JUNIOR AND SENIOR CS AND INFORM MAJORS	NOT ON THE LIST OF PRE-APPROVED INFORM ELECTIVES. AI
QUANTUM INFORMATION SCIENCE	STATISTC 315 OR PHYSICS 281 OR PHYSICS 287), ALL WITH A GRADE OF C OR BETTER.	ONLY.	SENIOR CS AND INFORM MAJORS HAVE ENROLLED, THIS COL JUNIOR AND SENIOR PHYSICS, MATH, AND ENGINEERING MA WAIT FOR THE COURSE TO OPEN TO SELF-ENROLL. MATH 23
Filip Rozpedek			311 ARE HELPFUL BUT NOT NECESSARY. STUDENTS NEEDIN PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE Fu umass.edu/academics/course-overrides
COMPSCI 420 SOFTWARE ENTREPRENEURSHIP	COMPSCI 320 (OR COMPSCI 326) WITH A GRADE OF C OR BETTER.	JUNIOR AND SENIOR CS AND INFORM MAJORS ONLY.	THIS COURSE QUALIFIES AS A 'CAPSTONE COURSE' FOR THE CERTIFICATE IN PUBLIC INTEREST TECHNOLOGY, ASSUMING
Matthew Rattigan			PRODUCED IS DEEMED SUITABLE BY THE INSTRUCTOR. MAK USING THIS COURSE FOR THIS PURPOSE WITH THE INSTRUC BEGINNING OF THE COURSE. FOR MORE INFORMATION ON T
			https://groups.cs.umass.edu/pit/undergraduate-pit-certificate/. STUE THE UNDERGRADUATE CERTIFICATE IN PUBLIC INTEREST TE ELIGIBLE VIA OVERRIDE. IF YOU HAVE QUESTIONS ABOUT TH EMAIL THE PIT CERTIFICATE PROGRAM DIRECTOR, PROFESS SCHWEIK AT cschweik@umass.edu. STUDENTS NEEDING SPEC MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://w
			edu/academics/course-overrides

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F BEGINNING SPRING E DOES NOT COUNT AS MISSION MUST REQUEST a.edu/academics/course-

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T ELIGIBLE FOR THIS IOR EXPERIENCE IN ABOUT THE SUBJECT IBLE STUDENTS WHO Y USE IT IN PLACE OF THE CHANGE TO SHOW L PERMISSION MUST .umass.

THON PROGRAMMING L PERMISSION MUST cics.umass.

AFTER JUNIOR AND COURSE WILL OPEN TO MAJORS, WHO SHOULD H 233, COMPSCI 250 AND DING SPECIAL E FORM: https://www.cics.

THE UNDERGRADUATE ING THE STUDENT WORK MAKE SURE TO DISCUSS RUCTOR AT THE IN THE CERTIFICATE: TUDENTS ENROLLED IN TECHNOLOGY ARE THE PIT CERTIFICATE, ESSOR CHARLIE PECIAL PERMISSION ://www.cics.umass.

	PREREQUISITES	ELIGIBILITY RESTRICTIONS	CLASS NOTES/COMMENTS INFORMATION ONLY - DOES NOT AFFE
COMPSCI 426 SCALABLE WEB SYSTEMS <i>Timothy Richards</i>	COMPSCI 320 OR COMPSCI 326 WITH A GRADE OF C OR BETTER.	U1 LEC 01: JUNIOR AND SENIOR CS AND INFORM MAJORS ONLY.	IT IS RECOMMENDED TO HAVE COMPLETED COMPSCI 220 (PF METHODOLOGY) AND COMPSCI 230 (COMPUTER SYSTEMS PF COMPSCI 377 (OPERATING SYSTEMS), HOWEVER, THIS IS NO MAKE YOUR EXPERIENCE MORE RICH (E.G., BACKGROUND IN DEPLOYMENT, BASIC SECURITY, NETWORK PROTOCOLS, PRO SERVER ARCHITECTURE, AND GENERAL OPERATING SYSTEM CONCEPTS). STUDENTS NEEDING SPECIAL PERMISSION MUS OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.ed overrides
COMPSCI 429 SOFTWARE ENGINEERING PROJ MGMT <i>Gordon Anderson, Madeline Endres, James</i> <i>Perretta</i>	COMPSCI 320 WITH A GRADE OF B OR BETTER.	UNDERGRADUATE CS MAJORS ONLY.	INSTRUCTOR CONSENT REQUIRED. MEETS WITH COMPSCI 3 STUDENTS MAY EMAIL INSTRUCTOR FOR PERMISSION TO EN APPROVED TO ENROLL, REFER TO INSTRUCTOR PERMISSION REQUEST AND SUBMIT VIA THE ON-LINE FORM: https://www.cia edu/academics/course-overrides
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.	WITH INSTRUCTOR PERMISSION, STUDENTS WITH PRIOR EXE DATABASES MAY SUBSTITUTE ONE OF COMPSCI 320, 326, OR OF C OR BETTER FOR THE COMPSCI 345 PREREQUISITE. IF A STUDENTS WHO ARE NOT CS MAJORS BUT HAVE SUFFICIENT EXPERIENCE OR CS GRADUATE STUDENTS MAY SUBMIT AN O INSTRUCTOR CONSIDERATION. STUDENTS NEEDING SPECIA REQUEST OVERRIDE VIA THE ON-LINE FORM: https://www.cics. edu/academics/course-overrides
COMPSCI 446 SEARCH ENGINES James Allan	COMPSCI 240 OR COMPSCI 383 WITH A GRADE OF C OR BETTER.	JUNIOR AND SENIOR CS MAJORS ONLY.	INSTRUCTOR WILL CONSIDER STATISTC 315/515 AS AN ALTER IN PLACE OF COMPSCI 240 VIA OVERRIDE IF AVAILABLE SEAT NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDE v FORM: https://www.cics.umass.edu/academics/course-overrides
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 WILL BENEFIT SIGNIFICANTLY FROM A PRIOR OR O EXPOSURE TO PROBABILITY (COMPSCI 240), ALGORITHMS (C MULTI-THREADED PROGRAMMING (COMPSCI 377 OPERATING ALTHOUGH THESE ARE NOT STRICT PREREQUISITES, STUDE PROGRAM IN A STRUCTURED HIGH-LEVEL PROGRAMMING LA JAVA, C OR C++, PYTHON, ETC. PROGRAMMING PROJECTS IN STUDENT CHOICE. STUDENTS NEEDING SPECIAL PERMISSIO OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu overrides
COMPSCI 461 SECURE DISTRIBUTED SYSTEMS Gregory Stone	COMPSCI 326, COMPSCI 345, COMPSCI 377, COMPSCI 453, OR COMPSCI 497P WITH A GRADE OF C OR BETTER.	JUNIOR AND SENIOR CS MAJORS ONLY.	THE COURSE IS BASED ON A FLIPPED CLASSROOM AND USE: INSTRUCTION MODEL. SOME OF THE COURSE CONTENT IS D HOWEVER STUDENTS ARE REQUIRED TO ATTEND WEEKLY C SENIOR AND JUNIOR CSENG MAJORS WITH APPROPRIATE BA AVAILABLE SEATS. STUDENTS NEEDING SPECIAL PERMISSIO OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu overrides
COMPSCI 485 APPLICATIONS OF NLP Abhidip Bhattacharyya	COMPSCI 220 AND COMPSCI 240, BOTH WITH A GRADE OF C OR BETTER (OR LINGUIST 429H/492B WITH A GRADE OF C OR BETTER).	JUNIOR AND SENIOR CS AND COMP LING MAJORS ONLY.	PREVIOUSLY COMPSCI 490A. STUDENTS FROM OTHER DISCI CONSIDERED AS WELL IF AVAILABLE SEATS. STUDENTS NEE PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE F umass.edu/academics/course-overrides
COMPSCI 514 ALGORITHMS FOR DATA SCIENCE Andrew McGregor, Mingda Qiao	UNDERGRADUATES: COMPSCI 240 (OR STATISTCS 515) AND COMPSCI 311, BOTH WITH A GRADE OF B+ OR BETTER (OR COMPSCI 240, STATISTCS 315/515, COMPSCI 311, MATH 233, AND MATH 235, ALL WITH A GRADE OF C OR BETTER).	UNIV LEC 01: JUNIOR AND SENIOR CS MAJORS ONLY. UNIV LEC 02: MS-CMPSCI GRADUATE STUDENTS ONLY. UO1 LEC 01: JUNIOR AND SENIOR CS MAJORS ONLY. UO1 LEC 02: MS-CMPSCI GRADUATE STUDENTS ONLY. U+ LEC 01: MS-CMPSCI ONLINE GRADUATE STUDENTS ONLY.	U1 LEC 01 FOR UNDERGRADS; U1 LEC 02 FOR GRADS. U01 LE AND SENIOR CS MAJORS ONLY; U01 LEC 02 FOR MS-CMPSCI STUDENTS ONLY; C1 LEC 01 FOR MS-CMPSCI ONLINE GRAD S SEATS HELD IN LEC 02 FOR INCOMING GRAD STUDENT REGIS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES FORM: https://www.cics.umass.edu/academics/course-overrides
COMPSCI 515 ALGRTHMS,GAME THEORY, FAIRNESS <i>Yair Zick</i>	UNDERGRADUATES: COMPSCI 240 AND COMPSCI 250, BOTH WITH A GRADE OF C OR BETTER.	LEC 01: JUNIOR AND SENIOR CS MAJORS ONLY. LEC 02: MS-CMPSCI GRADUATE STUDENTS ONLY.	PREVIOUSLY COMPSCI 590T. LECT 01 FOR UNDERGRADS; LE STUDENTS SHOULD BE FAMILIAR WITH BASIC CONCEPTS OF (EXPECTATION, THE LAW OF TOTAL PROBABILITY), LINEAR OI WHAT IS A PRIMAL AND A DUAL), AND BASIC ALGEBRA (WHAT SEATS HELD IN LECT 02 FOR INCOMING GRAD STUDENT REG STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST O ON-LINE FORM: https://www.cics.umass.edu/academics/course-ov

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(PROGRAMMING PRINCIPLES), OR NOT REQUIRED BUT WILL IN WEB APP PROCESSES, CLIENT TEMS MUST REQUEST s.edu/academics/course-

CI 320. ELIGIBLE ENROLL. ONCE ION ON THE OVERRIDE v.cics.umass.

EXPERIENCE IN OR 377 WITH A GRADE IF AVAILABLE SEATS, ENT PROGRAMMING IN OVERRIDE FOR CIAL PERMISSION MUST cics.umass.

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DR CONCURRENT 5 (COMPSCI 311), AND ING SYSTEMS) DENTS MUST BE ABLE TO 6 LANGUAGE, SUCH AS S IN A LANGUAGE OF SION MUST REQUEST .edu/academics/course-

SES A HYBRID S DELIVERED ONLINE, Y CLASS MEETINGS. BACKGROUND, IF SION MUST REQUEST edu/academics/course-

SCIPLINES WILL BE IEEDING INSTRUCTOR E FORM: https://www.cics.

1 LEC 01 FOR JUNIOR SCI GRADUATE D STUDENTS ONLY. GISTRATION. STUDENTS ES VIA THE ON-LINE

LECT 02 FOR GRADS. OF PROBABILITY THEORY OPTIMIZATION (SYNTAX, IAT IS A VECTOR SPACE). EGISTRATION. OVERRIDES VIA THE overrides

	PREREQUISITES	ELIGIBILITY RESTRICTIONS	CLASS NOTES/COMMENTS INFORMATION ONLY - DOES NOT AFFEC
COMPSCI 520 THEORY AND PRACTICE-SOFTENGIN Heather Conboy, Juan Zhai	UNDERGRADUATES: COMPSCI 320 (OR COMPSCI 220 AND COMPSCI 326) WITH C OR BETTER.	LEC 01 AND 03: JUNIOR AND SENIOR CS MAJORS ONLY. LEC 02 AND 04: MS-CMPSCI GRADUATE STUDENTS ONLY.	LEC 01 AND 03 FOR UNDERGRADS; LEC 02 AND 04 FOR GRADS LEC 02 AND 04 FOR INCOMING GRAD STUDENT REGISTRATION NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES V FORM: https://www.cics.umass.edu/academics/course-overrides.
COMPSCI 532 SYSTEMS FOR DATA SCIENCE Peter Klemperer	UNDERGRADUATES: COMPSCI 377 AND COMPSCI 445, BOTH WITH A GRADE OF C OR BETTER.	UNIV LEC 01: JUNIOR AND SENIOR CS MAJORS ONLY. UNIV LEC 02: MS-CMPSCI GRADUATE STUDENTS ONLY. U+ LEC 01: ONLINE MS-CMPSCI PROGRAM STUDENTS ONLY.	UNIV LEC 01 FOR UNDERGRADS; UNIV LEC 02 FOR ELIGIBLE GI IN LEC 02 FOR INCOMING STUDENT REGISTRATION. U+ LEC 01 CMPSCI PROGRAM STUDENTS ONLY. COURSE IS ONLINE WITH SYNCHRONOUS LIVE LECTURES ON MW 4:00-5:15 PM EDT. PHI WITH A TUITION WAIVER CANNOT ENROLL IN A U+ SECTION. P GRADUATE LEVEL STUDENTS WHO NEED A UNIVERSITY COUR REGISTER IN UNIV LEC 02. STUDENTS NEEDING SPECIAL PERI REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics edu/academics/course-overrides
COMPSCI 550 INTRODUCTION TO SIMULATION Peter Haas	UNDERGRADUATES: CICS 210 (OR COMPSCI 187) AND STATISTC 315 (PREVIOUSLY STATISTC 515), BOTH WITH A GRADE OF C OR BETTER.	LECT 01: JUNIOR AND SENIOR CS MAJORS ONLY. LECT 02: MS-CMPSCI GRADUATE STUDENTS ONLY.	LECT 01 FOR UNDERGRADS; LECT 02 FOR GRADS. SEATS HEL INCOMING GRAD STUDENTS. SOME BACKGROUND IN STOCHA HELPFUL, BUT NOT REQUIRED, AS THE MATERIAL WILL BE DEV INSTRUCTOR PERMISSION REQUIRED FOR UNDERGRADUATE PREREQUISITES AND GRADUATE IE STUDENTS. STUDENTS NE PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FO umass.edu/academics/course-overrides
COMPSCI 560 INTRO COMPUTER&NETWRK SECURITY Parviz Kermani	UNDERGRADUATES: COMPSCI 453 OR E&C-ENG 374 WITH A GRADE OF C OR BETTER.	UNIV LEC 01: UNDERGRADUATE CS AND CSENG STUDENTS. UNIV LEC 02: CMPSCI AND ECE GRADUATE STUDENTS ONLY. U+ LEC 01: MS-CMPSCI GRADUATE STUDENTS ONLY.	UNIV LEC 01 FOR UNDERGRADS; UNIV LEC 02 FOR ELIGIBLE GF LEC 02 FOR INCOMING STUDENT REGISTRATION. U+ LEC 01 IS WITH REQUIRED ONLINE SYNCHRONOUS MEETINGS ACCORDI AND IS FOR MS-CS STUDENTS AND OTHER GRADUATE STUDEN ECE) WITH INSTRUCTOR PERMISSION. PHDS OR ANY STUDEN WAIVER CANNOT ENROLL IN A U+ SECTION. NO PREREQUISITI GRADUATE STUDENTS; HOWEVER, ANY EDUCATION IN SECUR GOOD KNOWLEDGE OF NETWORKING. AS SUCH, KNOWLEDGE COMPUTER NETWORKING, IS ESSENTIAL TO COMPLETELY BEN COURSE. STUDENTS NEEDING SPECIAL PERMISSION MUST RE VIA THE ONLINE FORM: https://www.cics.umass.edu/academics/com
COMPSCI 563 INTERNET LAW AND POLICY Marvin Cable	UNDERGRADUATES: COMPSCI 311 OR COMPSCI 383 OR COMPSCI 360 (PREVIOUSLY 460) WITH C OR BETTER.	UNIV LEC 01: JUNIOR AND SENIOR CS MAJORS ONLY. UNIV LEC 02: CMPSCI AND ECE GRADUATE STUDENTS ONLY. U+ LEC 01: MS-CMPSCI GRADUATE STUDENTS ONLY.	UNIV LEC 01 FOR UNDERGRADS; UNIV LEC 02 FOR ELIGIBLE GF LEC 02 FOR INCOMING STUDENT REGISTRATION. U+ LEC 01 S' REMOTE ATTENDANCE AT SPECIFIED MEETING TIMES IS REQU CMPSCI STUDENTS AND OTHER GRADUATE STUDENTS (EXCEF INSTRUCTOR PERMISSION. PHDS OR ANY STUDENT WITH A TU CANNOT ENROLL IN A U+ SECTION. STUDENTS NEEDING SPEC FOR EITHER UNIVERSITY SECTION MUST REQUEST OVERRIDE FORM: https://www.cics.umass.edu/academics/course-overrides.
COMPSCI 565 ADV DIGITAL FORENSIC SYSTEMS Peter Klemperer	UNDERGRADUATES: COMPSCI 365 OR COMPSCI 377 WITH A GRADE OF C OR BETTER.	UNIV LEC 01: JUNIOR AND SENIOR CS MAJORS ONLY. UNIV LEC 02: GRADUATE CMPSCI AND ECE STUDENTS ONLY. U+ LEC 01: GRADUATE CMPSCI STUDENTS ONLY.	STUDENTS WHO HAVE COMPLETED COMPSCI 590F ARE NOT E COURSE. UNIV LEC 01 FOR UNDERGRADS; UNIV LEC 02 FOR G ONLINE WITH OPTIONAL SYNCHRONOUS LIVE LECTURES MW A WILL BE USED AND ECHO360 FOR LECTURE VIDEO DISTRIBUTI JUNIOR CSENG MAJORS WITH APPROPRIATE BACKGROUND W PERMISSION, IF AVAILABLE SEATS. U+ LEC 01 FOR ONLINE MS STUDENTS ONLY. STUDENTS NEEDING SPECIAL PERMISSION OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu overrides
COMPSCI 575 COMBINATORICS AND GRAPH THEORY	UNDERGRADUATES WITH COMPSCI 250 (OR MATH 455) WITH A GRADE OF B OR BETTER.	LEC 01: JUNIOR AND SENIOR UNDERGRADUATES ONLY. LEC 02: MS-CMPSCI STUDENTS ONLY.	CROSS-LISTED WITH MATH 513. LECT 01 FOR UNDERGRADS; L IF NOT MEETING PREREQUISITES, STUDENTS MUST SEEK INST PERMISSION VIA THE OVERRIDE PROCESS. STUDENTS NEEDI PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FO umass.edu/academics/course-overrides.
COMPSCI 578 DISTRIBUTED COMPTNG AND SYSTMS Arun Venkataramani	UNDERGRADUATES: COMPSCI 377 WITH A GRADE OF C OR BETTER.	UNIV LEC 01: JUNIOR AND SENIOR CS MAJORS ONLY. UNIV LEC 02: MS-CMPSCI GRADUATE STUDENTS ONLY. U+ LEC 01: ONLINE MS-CMPSCI PROGRAM STUDENTS ONLY.	UNIV LECT 01 FOR UNDERGRADS; UNIV LECT 02 FOR ELIGIBLE IN LECT 02 FOR INCOMING STUDENT REGISTRATION. U+ LEC 0 STUDENTS ONLY. STUDENTS NEEDING SPECIAL PERMISSION N OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/ overrides

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E GRADS; SEATS HELD C 01 FOR ONLINE MS-VITH OPTIONAL PHDS OR ANY STUDENT I. PHD OR OTHER DURSE SHOULD ERMISSION MUST cics.umass.

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E GRADS; SEATS HELD IN 1 IS FULLY REMOTE RDING TO SCHEDULE, DENTS (EXCEPT MS-DENTS (EXCEPT MS-DENT WITH A TUITION SITES FOR CS OR ECE CURITY REQUIRES A DGE OF COMPSCI 453, BENEFIT FROM THIS I REQUEST OVERRIDES s/course-overrides

E GRADS; SEATS HELD IN 1 SYNCHRONOUS EQUIRED; FOR MS-(CEPT MS-ECE) WITH A TUITION WAIVER SPECIAL PERMISSION RIDES VIA THE ON-LINE

T ELIGIBLE FOR THIS R GRADS. CLASS IS W AT 2:30-3:45. CANVAS UTION. SENIOR AND D WITH INSTRUCTOR MS-CMPSCI PROGRAM ON MUST REQUEST edu/academics/course-

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	PREREQUISITES	ELIGIBILITY RESTRICTIONS	CLASS NOTES/COMMENTS INFORMATION ONLY - DOES NOT AFFEC
COMPSCI 589 MACHINE LEARNING <i>Benjamin Marlin</i>	UNDERGRADUATES: [MATH 545 AND STATISTCS 315 (PREVIOUSLY STATISTCS 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 STATISTCS 315 (PREVIOUSLY STATISTCS 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.]	UNIV LEC 01: JUNIOR AND SENIOR CS MAJORS ONLY. UNIV LEC 02: MS-CMPSCI GRADUATE STUDENTS ONLY.	LEC 01 FOR UNDERGRADS; LEC 02 FOR GRADS. SEATS HELD INCOMING GRAD STUDENT REGISTRATION. STUDENTS NEED PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FO umass.edu/academics/course-overrides
COMPSCI 590AF REV ENGG&UNDRSTNDG EXPLOIT DEV Lurene Grenier	UNDERGRADUATE PREREQUISITE: COMPSCI 230 (OR E&C-ENG 322) WITH A GRADE OF C OR BETTER.	LEC 01: JUNIOR AND SENIOR CS, INFORM AND CSENG MAJORS ONLY. LEC 02: MS-CMPSCI STUDENTS ONLY.	MEETS WITH COMPSCI 367 (PREVIOUSLY 390R). LEC 01 FOR U FOR GRADS. ALTHOUGH OPEN TO INFORM MAJORS, THIS CO LIST OF PRE-APPROVED INFORM ELECTIVES. SEATS HELD FO GRADUATE STUDENT REGISTRATION. STUDENTS NEEDING S MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://w edu/academics/course-overrides
COMPSCI 590Q QUANTUM INFORMATION SYSTEMS Stefan Krastanov	UNDERGRADUATES: MATH 235 WITH A GRADE OF C OR BETTER.	LEC 01: JUNIOR AND SENIOR CS MAJORS ONLY. LEC 02: MS-CMPSCI STUDENTS ONLY.	MEETS WITH COMPSCI 648. LEC 01 FOR UNDERGRADS; LEC 0 KNOWLEDGE OF QUANTUM MECHANICS IS NOT A PREREQUIS CONCEPTS WILL BE INTRODUCED AS NEEDED. BACKGROUND FAMILIARITY WITH CALCULUS (MATH 131, 132), KNOWLEDGE OF AND DISCRETE MATH. KNOWLEDGE OF ALGORITHMS AND CO PREREQUISITES; WILL BE INTRODUCED AS NEEDED. STUDEN PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FO umass.edu/academics/course-overrides
COMPSCI 596E IS-ML APPLIED TO CHILD RESCUE Brian Levine		UNIV LEC 01: SENIOR CS MAJORS AND CS GRADUATE STUDENTS ONLY. U+ LEC 01: ONLINE MS-CMPSCI PROGRAM STUDENTS ONLY.	INSTRUCTOR PERMISSION REQUIRED. CS SENIOR OR CS GR/ WITH A MACHINE LEARNING BACKGROUND. WE EXPECT HIGH COMPSCI 589 OR COMPSCI 682. PHDS OR ANY STUDENT WITH CANNOT ENROLL IN A U+ SECTION. FOR INSTRUCTIONS ON H INSTRUCTOR FOR ENROLLMENT, PLEASE SEE: https://infosec.cr edu/compsci596e.
COMPSCI 601 COMPUTATION THEORY Hung Le		CMPSCI GRADUATE STUDENTS ONLY.	PREREQUISITES: AN UNDERGRADUATE COURSE IN AUTOMAT FORMAL LANGUAGES SUCH AS COMPSCI 501 OR PERMISSION INSTRUCTOR PERMISSION REQUIRED FOR UNDERGRADUATE CLEARED BY THE UPD, IF AVAILABLE SEATS. SEATS HELD FOR STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PER REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics edu/academics/course-overrides
COMPSCI 602 RESEARCH METHODS-EMPIRICAL CS David Jensen		CMPSCI GRADUATE STUDENTS ONLY.	SEATS HELD FOR INCOMING GRADUATE REGISTRATION. UND CS MAJORS WITH INSTRUCTOR, HPD, AND UPD PERMISSION. SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE O //www.cics.umass.edu/academics/course-overrides
COMPSCI 611 ADVANCED ALGORITHMS Hedyeh Beyhaghi		CMPSCI GRADUATE STUDENTS ONLY.	MATHEMATICAL MATURITY WITH KNOWLEDGE OF ALGORITHM COMPSCI 311 EXPECTED OF INCOMING CS GRADUATE STUDE PERMISSION REQUIRED FOR UNDERGRADUATE CS MAJORS (IF AVAILABLE SEATS. SEATS HELD FOR INCOMING GRAD STU STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST (ON-LINE FORM: https://www.cics.umass.edu/academics/course-ove
COMPSCI 635 MODERN COMPUTER ARCHITECTURE Charles Weems		CMPSCI GRADUATE STUDENTS ONLY.	SEATS SAVED FOR INCOMING GRADUATE STUDENT REGISTR OR EQUIVALENT INTRODUCTORY COMPUTER ARCHITECTURE ASSUMED AS PRIOR KNOWLEDGE. CONTACT INSTRUCTOR IF STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST O ON-LINE FORM: https://www.cics.umass.edu/academics/course-ove
COMPSCI 646 INFORMATION RETRIEVAL Razieh Rahimi		CMPSCI GRADUATE STUDENTS ONLY.	INSTRUCTOR PERMISSION REQUIRED FOR SENIOR CS MAJOR PREREQUISITE OF COMPSCI 445 OR 446 WITH A GRADE OF C CLEARED BY THE UPD, IF SEATS ARE AVAILABLE. SEATS HEL STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PER REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cica edu/academics/course-overrides.

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MATA THEORY AND ION OF INSTRUCTOR. ATE CS MAJORS FOR INCOMING GRAD PERMISSION MUST .cics.umass.

JNDERGRADUATE CHC DN. STUDENTS NEEDING E ON-LINE FORM: https:

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	PREREQUISITES	ELIGIBILITY RESTRICTIONS	CLASS NOTES/COMMENTS INFORMATION ONLY - DOES NOT AFFE
COMPSCI 648 QUANTUM INFORMATION SYSTEMS Stefan Krastanov		CMPSCI GRADUATE STUDENTS ONLY.	MEETS WITH COMPSCI 590Q. PREVIOUSLY COMPSCI 690Q. F LINEAR ALGEBRA (MATH 235) AND CALCULUS (MATH 131/132) SOME PROBABILITY AND DISCRETE MATH. KNOWLEDGE OF (IS NOT A PREREQUISITE; QUANTUM CONCEPTS INTRODUCEL KNOWLEDGE OF ALGORITHMS AND COMPLEXITY ARE NOT P INTRODUCED AS NEEDED. SEATS HELD FOR INCOMING GRA REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.ec overrides.
COMPSCI 660 ADV INFORMATION ASSURANCE Amir Houmansadr		CMPSCI GRADUATE STUDENTS ONLY.	INSTRUCTOR PERMISSION REQUIRED FOR UNDERGRADUAT MEET THE PREREQUISITE OF COMPSCI 460 OR COMPSCI 466 CLEARED BY THE UPD, IF AVAILABLE SEATS. NON-CS STUDE OF INSTRUCTOR. SEATS HELD FOR INCOMING GRAD STUDE STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST ON-LINE FORM: https://www.cics.umass.edu/academics/course-ov
COMPSCI 661 SECURE DISTRIBUTED SYSTEMS Gregory Stone		UNIV LEC 01: CMPSCI AND ECE GRADUATE STUDENTS ONLY. U+ LEC 01: MS-CMPSCI GRADUATE STUDENTS ONLY.	UNIV LEC 01 FOR ELIGIBLE GRADS; SEATS HELD FOR INCOMI REGISTRATION. U+ LEC 01 FULLY REMOTE WITH REQUIRED O SYNCHRONOUS MEETINGS AT THE SCHEDULED TIME; FOR M OTHER GRADUATE STUDENTS (EXCEPT MS-ECE) WITH INSTF PHDS OR ANY STUDENT WITH A TUITION WAIVER CANNOT EI SECTION. THE COURSE IS BASED ON A FLIPPED CLASSROOI COURSE CONTENT IS DELIVERED ONLINE AND STUDENTS AF OR READ THESE MATERIALS AHEAD OF CLASS MEETINGS IN DISCUSSION. PHYSICAL ATTENDANCE IS REQUIRED FOR IN- STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST ON-LINE FORM: https://www.cics.umass.edu/academics/course-ov
COMPSCI 666 THEORY/PRACTICE-CRYPTOGRAPHY Adam O'Neill		CMPSCI GRADUATE STUDENTS ONLY.	PREVIOUSLY COMPSCI 690C. MATHEMATICAL MATURITY, BE READING AND WRITING MATHEMATICAL PROOFS. SEATS SA GRAD STUDENT REGISTRATION. STUDENTS NEEDING SPEC REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cic edu/academics/course-overrides.
COMPSCI 685 ADV NATURAL LANG PROCESSING Brendan O'Connor		GRADUATE CMPSCI STUDENTS ONLY.	PHD-LING STUDENTS WITH PERMISSION OF INSTRUCTOR. S INCOMING GRAD STUDENT REGISTRATION. STUDENTS NEEL PERMISSION MUST REQUEST OVERRIDES VIA ON-LINE FORM edu/academics/course-overrides
COMPSCI 687 REINFORCEMENT LEARNING <i>Bruno Castro da Silva</i>		CMPSCI GRADUATE STUDENTS ONLY.	A STRONG MATHEMATICAL BACKGROUND IN CALCULUS, LIN STRATEGIES FOR PROVING THEOREMS, AND PROGRAMMING REQUIRED. IN ADDITION, A BACKGROUND IN MACHINE LEAR AND COMPSCI 689) AND ARTIFICIAL INTELLIGENCE (COMPSC SEATS ARE RESERVED FOR INCOMING GRAD STUDENT REG REQUIRING SPECIAL PERMISSION MUST REQUEST OVERRID FORM: https://www.cics.umass.edu/academics/course-overrides.
COMPSCI 689 MACHINE LEARNING Justin Domke		CMPSCI GRADUATE STUDENTS ONLY.	PERMISSION OF INSTRUCTOR FOR UNDERGRADUATES WHO COMPSCI 589, IF CLEARED BY THE UPD AND AVAILABLE SEA INCOMING GRAD STUDENT REGISTRATION. STUDENTS NEED PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE F umass.edu/academics/course-overrides
COMPSCI 690F TRUSTWORTHY AND RESPONSIBLE AI <i>Eugene Bagdasarian</i>		CMPSCI GRADUATE STUDENTS ONLY.	AS THE COURSE HAS INTERDISCIPLINARY PARTS, TOWARD S BEHAVIORAL SCIENCES, GRADUATE STUDENTS FROM OTHE ENROLL, IF SEATS ARE AVAILABLE. FOLLOWING BACKGROU INTRODUCTORY MACHINE LEARNING OR DATA SCIENCE (CO 389 OR 589 OR EQUIVALENT), BASIC STATISTICS (COMPSCI 2- PSYCH 240 OR OIM 240 OR STAT 515 OR EQUIVALENT), GOOD SKILLS IN PYTHON (LIBRARIES: NUMPY, PANDAS, MATPLOTLI STUDENTS OUTSIDE OF CS MUST REQUEST AN OVERRIDE AI THEY MEET PREREQUISITES UNDER ADDITIONAL INFORMATI ARE UNCERTAIN WHETHER THEIR BACKGROUND IS SUFFICIE THE INSTRUCTOR ATTACHING THEIR ACADEMIC TRANSCRIP WHETHER THEY HAVE THE APPROPRIATE BACKGROUND TO THE COURSE. STUDENTS NEEDING SPECIAL PERMISSION MI OVERRIDE VIA THE ON-LINE FORM: https://www.cics.umass.edu overrides.

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ATE CS MAJORS WHO 466, OR EQUIVALENT AND IDENTS BY PERMISSION DENT REGISTRATION. ST OVERRIDES VIA THE -overrides.

OMING STUDENT ED ONLINE R MS-CS STUDENTS AND STRUCTOR PERMISSION. T ENROLL IN A U+ OOM. MUCH OF THE S ARE EXPECTED TO VIEW S IN PREPARATION FOR IN-PERSON SECTIONS. ST OVERRIDES VIA THE e-overrides

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SEATS HELD FOR EEDING SPECIAL RM: https://www.cics.umass.

INEAR ALGEBRA, ING IS ASSUMED AND ARNING (COMPSCI 589 SCI 683) IS ASSUMED. EGISTRATION. STUDENTS RIDES VIA THE ONLINE

HO HAVE COMPLETED EATS. SEATS HELD FOR EEDING SPECIAL IE FORM: https://www.cics.

RD STATISTICS AND THER DEPARTMENTS MAY (COUND IS ASSUMED: (COMPSCI 348 OR 383 OR CI 240 OR STAT 240 OR DOD PROGRAMMING DTLIB, SKLEARN). E AND DESCRIBE HOW IATION. STUDENTS WHO FICIENT SHOULD EMAIL RIPTS TO DETERMINE TO DE SUCCESSFUL IN N MUST REQUEST .edu/academics/course-

	PREREQUISITES	ELIGIBILITY RESTRICTIONS	CLASS NOTES/COMMENTS INFORMATION ONLY - DOES NOT AFFE
COMPSCI 690PT UNDRSTNDNG TECH FOR PUBLIC POL Michelle Trim		GRADUATE STUDENTS ONLY.	MEETS ASYNCHRONOUSLY; FULLY ONLINE. THIS COURSE IS (PUBLIC INTEREST TECHNOLOGY) CERTIFICATE; NOT APPLIC SCIENCE DEGREE PROGRAMS. STUDENTS NEEDING SPECIA REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cic edu/academics/course-overrides.
COMPSCI 692L S-NATURAL LANGUAGE PROCESSING Brendan O'Connor		PHD CMPSCI GRADUATE STUDENTS ONLY.	INSTRUCTOR CONSENT REQUIRED. MAY BE REPEATED FOR TIMES. OPEN ONLY TO PHD STUDENTS WORKING WITH NLP INTERESTED LINGUISTICS PHD STUDENTS WITH PERMISSION SYNCHRONOUS MEETINGS ARE REQUIRED. CONTACT INSTR CONSIDERATION AT brenocon@cs.umass.edu.
COMPSCI 692PA S-AI SAFETY, PRIVCY, & SECURTY Eugene Bagdasarian, Amir Houmansadr, Brian Levine		CMPSCI GRADUATE STUDENTS ONLY.	STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST ON ON-LINE FORM: https://www.cics.umass.edu/academics/course-ov
COMPSCI 692RP S-ROBOTICS:PERC,MOTN PLAN,CNTL Donghyun Kim		CMPSCI GRADUATE STUDENTS ONLY.	IT IS RECOMMENDED TO HAVE A BASIC BACKGROUND IN RO WHAT IS COVERED IN COMPSCI 403 OR 603. STUDENTS NEE PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE F umass.edu/academics/course-overrides
COMPSCI 698W P-CS RESRCH WRITNG PRACTICUM Justin Obara		CMPSCI PHD STUDENTS ONLY.	MAY BE REPEATED FOR CREDIT ONCE. SECT 01 (9/2-10/14/25 -12/9/25). STUDENTS NEEDING SPECIAL PERMISSION MUST F VIA THE ON-LINE FORM: https://www.cics.umass.edu/academics/
COMPSCI 701 ADV TOPICS IN CMPSCI		DOCTORAL, MASTERS GRADUATE CMPSCI STUDENTS ONLY.	THE 3 CREDIT OPTION IS FOR THE SECOND SEMESTER OF A SEQUENCE, 701Y FOLLOWED BY 701. THE 6 CREDIT OPTION THAT WILL BE COMPLETED OVER TWO SEMESTERS WITH EN ONE SEMESTER. REQUEST OVERRIDE VIA THE SPECIAL ON- //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 SEQ CREDITS) FOLLOWED BY 701 (3 CREDITS), WITH GRADE FOR THE END. REQUEST OVERRIDE VIA THE SPECIAL ON-LINE FO umass.edu/content/registration
COMPSCI 879 TEACH ASSTS-TOMORROW'S FACULTY Neena Thota			COURSE IS ASSOCIATED WITH CICS TA EMPLOYMENT. REQU TA CONTRACT. REGISTRATION WILL BE PROCESSED BY THE DIRECTOR GRADUATE PROGRAMS AFTER SIGNED AND APPF OPEN TO CICS TEACHING ASSISTANTS ONLY.
COMPSCI 891M S-THEORY OF COMPUTATION Hedyeh Beyhaghi, Mohammadhassan Hajiesma	aili	DOCTORAL, MASTERS GRADUATE STUDENTS ONLY.	MAY BE REPEATED FOR CREDIT UP TO 6 TIMES. UNDERGRA STUDENTS NOT MEETING ELIGIBILITY MUST REQUEST OVER LINE FORM: https://www.cics.umass.edu/academics/course-overri

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	PREREQUISITES	ELIGIBILITY RESTRICTIONS	CLASS NOTES/COMMENTS INFORMATION ONLY - DOES NOT AFFEC
COMPSCI 899 PHD DISSERTATION			COURSE OPEN ONLY TO CS GRADUATE STUDENTS WHO HAVE CANDIDACY. REQUEST ENROLLMENT VIA THE SPECIAL ON-LIN cics.umass.edu/academics/academic-policies/graduate-programs-pol forms
COMPSCI H250 HNRS COLLOQ: INTRO COMPUTATION David Barrington	CICS 160 (PREVIOUSLY INFO 190T OR COMPSCI 187 OR E&C-ENG 241) AND MATH 132, BOTH 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.	DEPARTMENT CONSENT REQUIRED. NO OPTION FOR PASS/FA BE ENROLLED IN COMPSCI 250 (OR HAVE COMPLETED COMPS GRADE OF B OR BETTER). OTHER CHC MAJORS CONSIDERED SEATS. INTERESTED STUDENTS MUST COMPLETE OVERRIDE LINE FORM: https://www.cics.umass.edu/academics/course-override.
COMPSCI H335 HNRS COLLOQ: INSIDE THE BOX Charles Weems	COMPSCI 220 (OR COMPSCI 230) WITH A GRADE OF C OR BETTER.	COMMONWEALTH HONORS COLLEGE JUNIOR AND SENIOR CS MAJORS ONLY.	DEPARTMENT CONSENT REQUIRED. NO OPTION FOR PASS/FA BE ENROLLED IN COMPSCI 335. INTERESTED STUDENTS MUS OVERRIDE VIA ON-LINE FORM: https://www.cics.umass.edu/acade.
COMPSCI H445 HNRS COLLOQ: INFORMATN SYSTEMS Marco Serafini	COMPSCI 220 (OR COMPSCI 230) AND COMPSCI 311 AND COMPSCI 345, ALL WITH GRADE OF C OR BETTER [OR COMPSCI 445 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 II HAVE COMPLETED COMPSCI 445 WITH A GRADE OF B OR BETT OVERRIDE VIA THE ON-LINE FORM: https://www.cics.umass.edu/a overrides.
COMPSCI H446 HNRS COLLOQ: SEARCH ENGINES James Allan	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.	DEPARTMENT CONSENT REQUIRED. NO OPTION FOR PASS/FA BE ENROLLED IN COMPSCI 446 (OR HAVE COMPLETED COMPS OF B OR BETTER). STUDENTS NEEDING SPECIAL PERMISSION OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/ overrides.
COMPSCI H589 HNRS COLLOQ: MACHINE LEARNING <i>Benjamin Marlin</i>	[MATH 545 AND STATISTCS 315 (PREVIOUSLY STATISTCS 515) AND COMPSCI 240, ALL WITH A GRADE OF C OR BETTER.] OR [MATH 545 WITH A GRADE OF C OR BETTER AND COMPSCI 240 WITH A GRADE OF B+ OR BETTER.] OR [MATH 235 AND MATH 233, BOTH WITH A GRADE OF B+ OR BETTER, AND STATISTICS 315 (PREVIOUSLY STATISTCS 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 GRADE OF B OR	COMMONWEALTH HONORS COLLEGE JUNIOR AND SENIOR CS MAJORS ONLY.	NO OPTION FOR PASS/FAIL. DEPARTMENT CONSENT REQUIRE BE ENROLLED IN COMPSCI 589 (OR HAVE COMPLETED COMPS GRADE OF B OR BETTER). REQUEST OVERRIDE VIA THE ON-LI //www.cics.umass.edu/academics/course-overrides
INFO 101 INTRO TO INFORMATICS Michelle Trim	BETTER. 1	UNDERGRADUATE NON-CS MAJORS ONLY.	CS MAJORS ARE NOT ELIGIBLE FOR THIS COURSE. FOUNDATIO THE INFORMATICS MAJOR. STUDENTS NEEDING SPECIAL PERI REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics. edu/academics/course-overrides.
INFO 150 MATH FOUND-INFORMATICS David Barrington		UNDERGRADUATE NON-CS AND NON-MATH (STATS) MAJORS ONLY.	CS AND MATH (STATISTICS) MAJORS ARE NOT ELIGIBLE FOR T INFORM MAJORS REGISTER, INFO 150 WILL OPEN TO ALL NON- MATH/STATS UNDERGRADUATES WHO SHOULD WAIT FOR THE RESTRICTION TO BE REMOVED TO SELF-ENROLL OR ADD TO T AVAILABLE) AND SHOULD NOT REQUEST AN OVERRIDE. ANTIC DURING THE FIRST WEEK OF CLASSES. R1 MATH USEFUL; NO REQUIRED. STUDENTS NEEDING SPECIAL PERMISSION MUST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/ overrides

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	PREREQUISITES	ELIGIBILITY RESTRICTIONS	CLASS NOTES/COMMENTS INFORMATION ONLY - DOES NOT AFFEC
INFO 203 A NETWORKED WORLD Mohammadhassan Hajiesmaili		ALL NON-CS UNDERGRADUATES.	CS MAJORS ARE NOT ELIGIBLE FOR THIS COURSE. AFTER INI REGISTER, INFO 203 WILL OPEN TO ALL NON-CS UNDERGRAD WAIT FOR THE MAJOR ELIGIBILITY RESTRICTION TO BE REMO OR ADD TO THE WAITLIST (IF AVAILABLE) AND SHOULD NOT R OVERRIDE. ANTICIPATED OPENING DURING THE FIRST WEEK STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST C ON-LINE FORM: https://www.cics.umass.edu/academics/course-ove
INFO 248 INTRO TO DATA SCIENCE Gordon Anderson	CICS 110 (OR CICS 160 OR COMPSCI 119 OR COMPSCI 121) WITH A GRADE OF C OR BETTER, AND EITHER PSYCH 240, OIM 240, STATISTC 240, RES- ECON 212, SOCIOL 212, OR STATISTC 315/515, OR COMPSCI 240, WITH A GRADE OF C OR BETTER.	UNDERGRADUATES.	PREVIOUS EXPERIENCE WITH A PROGRAMMING LANGUAGE (COMPSCI 121) MAY BE CONSIDERED FOR OVERRIDE. BASIC M MATURITY (COLLEGE ALGEBRA) IS ASSUMED. BASIC PROBABI SUCH AS ONE OF THE COURSES REQUIRED FOR REGISTRATI- REQUIRED. THIS COURSE CONSISTS OF TWO LECTURES AND PER WEEK. EACH LECTURE MEETING INCLUDES A PRESENTA CONCEPTUAL MATERIAL AS WELL AS SOME TIME TO WORK O OF THE MATERIAL PRESENTED. IN LAB TIME, STUDENTS REC INSTRUCTION ON THE USE OF SOFTWARE TOOLS TO ANALYZ READINGS WILL BE ASSIGNED AS PREPARATION FOR EACH C PROJECT. THE PROJECT PROVIDES STUDENTS WITH AN WORK COLLABORATIVELY TO EXPLORE A TOPIC IN MORE DEF INFORM MAJORS REGISTER, WILL OPEN TO ALL ELIGIBLE UNE AVAILABLE SEATS. ANTICIPATED OPENING DURING THE FIRST STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST C ON-LINE FORM: https://www.cics.umass.edu/academics/course-over
INFO 324 INTRO CLINICAL HLTH INFORMTCS Sunghoon Lee	INFO 248 (OR STATISTCS 515 OR COMPSCI 240) WITH A GRADE OF C OR BETTER.	INFORM MAJORS ONLY.	PREVIOUSLY INFO 390W. THIS COURSE IS A CORE IN THE INF AND LIFE SCIENCES (HLS) CONCENTRATION. KNOWLEDGE OF MEDICINE IS NOT A PREREQUISITE; THIS COURSE IS DESIGNE THE CONCEPTS OF HEALTH AND MEDICAL DATA. STUDENTS PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FO umass.edu/academics/course-overrides
INFO 348 DATA ANALYTICS WITH PYTHON Matthew Rattigan	INFO 248 AND CICS 160 (OR INFO 190T OR COMPSCI 186 OR COMPSCI 187), BOTH WITH A GRADE OF C OR BETTER.	INFORM MAJORS ONLY.	PREVIOUSLY CICS 397A. LINEAR ALGEBRA (MATH 235) IS HEL REQUIRED. STUDENTS WITH ALTERNATE PROGRAMMING OR BACKGROUND MAY REQUEST OVERRIDE FOR CONSIDERATIO CHANGE HAS BEEN APPROVED BY THE FACULTY SENATE TO WITH CICS 160. AFTER INFORM MAJORS REGISTER, INFO 348 UNDERGRADUATES, IF AVAILABLE SEATS. STUDENTS MEETIN SHOULD WAIT FOR THE MAJOR ELIGIBILITY RESTRICTION TO SELF-ENROLL OR ADD TO THE WAITLIST (IF AVAILABLE) AND S REQUEST AN OVERRIDE. STUDENTS NEEDING SPECIAL PERN REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics edu/academics/course-overrides
INFO 390C INTRO COMPTNL BIOL&BIOINFRMTCS Anna Green	INFO 248 WITH A GRADE OF C OR BETTER (OR CICS 210 AND COMPSCI 240 BOTH WITH A GRADE OF C OR BETTER).	JUNIOR AND SENIOR CS AND INFORM MAJORS ONLY.	JUNIOR AND SENIOR NON-CS AND NON-INFORM MAJORS WITI STATISTC 240 (OR EQUIVALENT) AND ONE OF COMPSCI 119, C WITH INSTRUCTOR PERMISSION, IF AVAILABLE SEATS. STUDI SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE O //www.cics.umass.edu/academics/course-overrides

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