	PREREQUISITES	ELIGIBILITY RESTRICTIONS	CLASS NOTES/COMMENTS INFORMATION ONLY - DOES NOT AFFEC
CICS 110 FOUNDATIONS OF PROGRAMMING Meng-Chieh Chiu, Ghazaleh Parvini, Cole Reilly, STAFF	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, and COMP LINGUISTICS majors.	PREVIOUSLY INFO 190S. STUDENTS ARE NOT PERMITTED TO AFTER SUCCESSFULLY COMPLETING COMPSCI 121 OR INFO 1 PREREQUISITE CHANGE TO ALLOW STUDENTS WITH A MATH I (MPT) SCORE OF 15 OR HIGHER HAS BEEN APPROVED, EFFEC AFTER ELIGIBLE CS, INFORM, MATH, PHYSICS AND COMP LINC HAVE ENROLLED, WILL OPEN TO FRESHMEN, SOPHOMORE, A UNDERGRADUATES, IF AVAILABLE SEATS. FRESHMEN, SOPH JUNIORS IN OTHER MAJORS SHOULD WAIT FOR THE ELIGIBILI BE REMOVED TO SELF-ENROLL OR ADD TO THE WAITLIST (IF SHOULD NOT REQUEST AN OVERRIDE. STUDENTS NEEDING S MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://w edu/overrides.
CICS 160 OBJECT-ORIENTED PROGRAMMING Jaime Davila, Cole Reilly	CICS 110 (PREVIOUSLY INFO 190S) OR COMPSCI 121 WITH A GRADE OF C OR BETTER.	FRESHMEN, SOPHOMORE AND JUNIOR CS AND INFORM MAJORS ONLY.	PREVIOUSLY INFO 190T. STUDENTS ARE NOT PERMITTED TO SUCCESSFULLY COMPLETING COMPSCI 186 OR INFO 190T. US LAPTOP IN CLASS IS REQUIRED. AFTER ELIGIBLE CS AND INFO ENROLLED, WILL OPEN TO ELIGIBLE NON-CS AND NON-INFORM AVAILABLE SEATS. ELIGIBLE NON-MAJORS SHOULD WAIT FOR ELIGIBILITY RESTRICTION TO BE REMOVED TO SELF-ENROLL O WAITLIST (IF AVAILABLE) AND SHOULD NOT REQUEST AN OVEF NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDE VI/ https://www.cics.umass.edu/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 ON ON-LINE FORM: https://www.cics.umass.edu/overrides
CICS 210 DATA STRUCTURES Mordecai Golin, Timothy Richards	CICS 160 (PREVIOUSLY INFO 190T) WITH A GRADE OF C OR BETTER.	FRESHMEN, SOPHOMORE AND JUNIOR CS AND INFORM MAJORS ONLY.	STUDENTS ARE NOT PERMITTED TO TAKE CICS 210 AFTER SUC COMPLETING COMPSCI 187. AFTER ELIGIBLE CS AND INFORM ENROLLED, WILL OPEN TO OTHER FRESHMEN, SOPHOMORE, A AVAILABLE SEATS. ELIGIBLE NON-CS AND NON-INFORM MAJOI FOR THE MAJOR ELIGIBILITY RESTRICTION TO BE REMOVED TO ADD TO THE WAITLIST (IF AVAILABLE) AND SHOULD NOT REQU STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST ON ON-LINE FORM: https://www.cics.umass.edu/overrides.
CICS 237 INTRO RESRCH IN THE DISCIPLINE Neena Thota			PREVIOUSLY CICS 290A. ERSP PROGRAM PARTICIPANTS ONL' APPLY DURING THE APPLICATION PERIOD AND BE ACCEPTED AT THE END OF THEIR FIRST YEAR (SPRING TERM). THEY ARE THIS COURSE IN THE FALL OF THE SECOND YEAR. STUDENTS ENROLL IN THIS COURSE. PROGRAM PARTICIPANTS INTERES' SHOULD CONTACT INSTRUCTOR WHO WILL PROVIDE CICS AC/ WITH A LIST FOR REGISTRATION.
CICS 256 MAKE: PHYSICAL COMPUTING Rui Wang	CICS 210 (OR COMPSCI 187) WITH A GRADE OF C OR BETTER AND BASIC MATH SKILLS (R1).	FRESHMEN AND SOPHOMORE BS-CS MAJORS ONLY.	NO OPTION FOR PASS/FAIL. THIS COURSE HAS A REQUIRED L COUNTS TOWARD THE CS LAB SCIENCE REQUIREMENT FOR T OFFERING IS OPEN TO SOPHOMORE AND FRESHMEN BS-CS M SOPHOMORE AND FRESHMEN REGISTER, PROGRAM WILL CON JUNIOR BS-CS MAJORS, IF AVAILABLE SEATS. JUNIOR BS-CS N WAIT FOR ELIGIBILITY TO OPEN TO SELF-ENROLL OR ADD TO T AVAILABLE) AND SHOULD NOT REQUEST AN OVERRIDE. STUD SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON //www.cics.umass.edu/overrides.
CICS 291T S-CICS TRANSFER SUCCESS Emma Anderson			DEPARTMENT CONSENT REQUIRED: OPEN TO INCOMING CS A TRANSFER STUDENTS ONLY.
CICS 298A P-LEADRSHP:COMMUNCTNG-EXPRTISE Emma Anderson	CICS 160 (PREVIOUSLY INFO 190T OR COMPSCI 186 OR COMPSCI 187) WITH A GRADE OF C OR BETTER.	FRESHMEN, SOPHOMORE, AND JUNIOR CS AND INFORM MAJORS ONLY.	SENIORS AND STUDENTS IN OTHER MAJORS MAY BE CONSIDE SEATS. STUDENTS FROM OTHER MAJORS MAY BENEFIT FROM STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST ON ON-LINE FORM: https://www.cics.umass.edu/overrides.

FECT SPIRE ENROLLMENT.

TO TAKE CICS 110 FO 190S. A ATH PLACEMENT TEST FECTIVE SUMMER 2023. LINGUISTICS MAJORS E, AND JUNIOR OPHOMORE, AND IBILITY RESTRICTION TO (IF AVAILABLE) AND NG SPECIAL PERMISSION s://www.cics.umass.

TO TAKE CICS 160 AFTER . USE OF PERSONAL INFORM MAJORS HAVE ORM MAJORS, IF FOR THE MAJOR ILL OR ADD TO THE OVERRIDE. STUDENTS E VIA THE ON-LINE FORM:

ID COMM 208. OVERRIDES VIA THE

SUCCESSFULLY ORM MAJORS HAVE RE, AND JUNIORS, IF AJORS SHOULD WAIT ID TO SELF-ENROLL OR EQUEST AN OVERRIDE. T OVERRIDES VIA THE

NLY. STUDENTS CAN ED TO THE PROGRAM RE THEN ENROLLED IN ITS DO NOT SELF ESTED IN ENROLLING ACADEMIC PROGRAMS

D LAB SECTION AND R THE BS-CS. THIS S MAJORS ONLY. AFTER CONSIDER OPENING TO CS MAJORS SHOULD TO THE WAITLIST (IF TUDENTS NEEDING E ON-LINE FORM: https:

S AND INFORM

DERED IF AVAILABLE ROM THIS COURSE. T OVERRIDES VIA THE

1

	PREREQUISITES	ELIGIBILITY RESTRICTIONS	CLASS NOTES/COMMENTS INFORMATION ONLY - DOES NOT AFFECT
CICS 305 SOC ISS IN CMPTNG Erin Butler, Elizabeth Gunther, Siobhan Meï, Justin Obara, Samuel Pulford, Christina Sutcliffe, Michelle Trim	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 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 LECTU MAJORS; EVEN LECTURES FOR INFORM MAJORS. ELIGIBILITY INFORMATICS PRIMARY MAJORS ONLY. CS AND INFORMATICS MAJORS MUST TAKE JUNIOR YEAR WRITING COURSE WITHIN F DEPARTMENT. LECT 01-02 MEET TOGETHER; LECT 03-04, ETC RECOGNIZE THE ENGLWRIT112 PREREQUISITE WHEN TAKEN A ELIGIBLE MAJORS WITH AP CREDIT, TRANSFER CREDIT, OR A ENGLWRIT112 WHO MEET THE OTHER STATED PREREQUISITE ASSISTANCE TO ENROLL VIA THE OVERRIDE FORM: https://www edu/overrides.
CICS 398T P-CPT		UNDERGRADUATE CS MAJORS ONLY.	INTERNATIONAL UNDERGRADUATE STUDENTS SHOULD REFEF WEBSITE FOR DETAILS ABOUT CURRICULAR PRACTICAL TRAIN DETAILS ABOUT REGISTRATION AND THE CPT APPLICATION PF MAJORS: https://www.cics.umass.edu/careers/articles/cpt-process-in
CICS 580 INTRO NUMRICL CMPTNG W/PYTHON Ali Montazeralghaem		GRADUATE STUDENTS ONLY.	ONLINE OFFERING. COURSE RUNS FOR 6 WEEKS (9/3/24-10/11/2 WITH UNDERGRADUATE-LEVEL PROBABILITY, STATISTICS, AND WILL BE ASSUMED. UNDERGRADUATES WHO HAVE COMPLET MATH 235 WITH PERMISSION OF INSTRUCTOR. STUDENTS NEE PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FO umass.edu/overrides.
CICS 598T P-CPT		GRADUATE CMPSCI STUDENTS ONLY.	COMPUTER SCIENCE GRADUATE STUDENTS INTERESTED IN P SUBMIT A HANDSHAKE APPLICATION FOUND ON THE CICS CAR STAFF WILL ENROLL GRADUATE STUDENTS FOR FALL AND SPI SECTION AND FOR WINTER AND SUMMER IN THE UWW SECTIO REGISTRATION AND THE CPT APPLICATION PROCESS FOR CMI STUDENTS: https://www.cics.umass.edu/careers/articles/cpt-process
COMPSCI 119 INTRO PROGRAMMING Allison Poh		UNDERGRADUATE NON-CS MAJORS ONLY.	CS MAJORS ARE NOT ELIGIBLE FOR THIS COURSE. AFTER SOF FRESHMEN REGISTER, WILL OPEN TO JUNIORS. NON-CS JUNIO FOR THE ELIGIBILITY RESTRICTION TO BE REMOVED TO SELF- THE WAITLIST (IF AVAILABLE) AND SHOULD NOT REQUEST AN STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST ON ON-LINE FORM: https://www.cics.umass.edu/overrides.
COMPSCI 198C P-INTRO-C PROGRAMMING LANGUAGE Meng-Chieh Chiu, Timothy Richards	COMPSCI 121 WITH A GRADE OF B OR BETTER, OR CICS 160 (PREVIOUSLY INFO 190T OR COMPSCI 186 OR CICS 210) WITH A GRADE OF C OR BETTER.	FRESHMEN, SOPHOMORE, AND JUNIORS ONLY.	STARTING FALL 2023, PASSING COMPSCI 198C IS A REQUIRED COMPSCI 230. STUDENTS WITH AP OR TRANSFER CREDIT FOR NEED AN OVERRIDE FOR REGISTRATION, BUT NON-CS MAJOR FROM REQUESTING OVERRIDE UNTIL MAJOR RESTRICTION IS STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OV LINE FORM: https://www.cics.umass.edu/overrides.
COMPSCI 220 PGMG METHODOLOGY <i>Marius Minea</i>	CICS 210 (OR COMPSCI 187) WITH A GRADE OF C OR BETTER.	CS MAJORS ONLY.	SEATS ARE BEING SAVED FOR INCOMING TRANSFER STUDENT NEW STUDENT ORIENTATION AND TRANSFER (NSOT) ENROLLI END OF JULY. REMAINING SEATS WILL BE RELEASED AT THAT NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDE VI/ https://www.cics.umass.edu/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 TRAI UNTIL THE END OF NEW STUDENT ORIENTATION AND TRANSFE ENROLLMENT PERIOD AT THE END OF JULY. REMAINING SEAT RELEASED AT THAT TIME. STUDENTS NEEDING SPECIAL PERM REQUEST OVERRIDE VIA THE ON-LINE FORM: https://www.cics.ur
COMPSCI 240 RSNG UNDER UNCERTAINTY Shiting Lan, Ghazaleh Parvini	CICS 160 (PREVIOUSLY INFO 190T OR COMPSCI 187 OR CICS 210) AND MATH 132, BOTH WITH A GRADE OF C OR BETTER.	CS MAJORS ONLY.	SEATS ARE BEING SAVED FOR INCOMING TRANSFER STUDENT NEW STUDENT ORIENTATION AND TRANSFER (NSOT) ENROLLI END OF JULY. REMAINING SEATS WILL BE RELEASED AT THAT NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDE VI/ https://www.cics.umass.edu/overrides.

FECT SPIRE ENROLLMENT.

CTURES FOR CS ITY LIMITED TO CS AND TICS SECONDARY IIN PRIMARY MAJOR ETC. SPIRE WILL ONLY EN AT UMASS AMHERST. A WAIVER FOR SITES WILL NEED WWW.cics.umass.

FER TO THE IPO RAINING (CPT). SEE N PROCESS FOR CS ss-internships

/11/24). FAMILIARITY AND LINEAR ALGEBRA ETED COMPSCI 240 AND NEEDING SPECIAL FORM: https://www.cics.

N PURSUING CPT MUST CAREERS WEB PAGE. SPRING IN THE UNIV CTION. DETAILS ABOUT CMPSCI GRADUATE cess-internships

SOPHOMORE AND UNIORS SHOULD WAIT ELF-ENROLL OR ADD TO AN OVERRIDE. T OVERRIDES VIA THE

ED PREREQUISITE FOR FOR COMPSCI 121 WILL IORS SHOULD REFRAIN I IS REMOVED. T OVERRIDE VIA THE ON-

ENTS UNTIL THE END OF DLLMENT PERIOD AT THE HAT TIME. STUDENTS E VIA THE ON-LINE FORM:

ED 'RANSFER STUDENTS ISFER (NSOT) EATS WILL BE ERMISSION MUST :s.umass.edu/overrides.

ENTS UNTIL THE END OF ILLMENT PERIOD AT THE IAT TIME. STUDENTS VIA THE ON-LINE FORM:

PREREQUISITES	ELIGIBILITY RESTRICTIONS	CLASS NOTES/COMMENTS INFORMATION ONLY - DOES NOT AFFE
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) ENROL END OF JULY. REMAINING SEATS WILL BE RELEASED AT THA NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDE V https://www.cics.umass.edu/overrides.
CICS 210 (OR COMPSCI 187) AND COMPSCI 250 (OR MATH 455), BOTH WITH A GRADE OF C OR BETTER.	JUNIOR AND SENIOR CS MAJORS ONLY.	SEATS ARE BEING SAVED FOR INCOMING TRANSFER STUDEN NEW STUDENT ORIENTATION AND TRANSFER (NSOT) ENROLI
		END OF JULY. REMAINING SEATS WILL BE RELEASED AT THA NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDE V https://www.cics.umass.edu/overrides.
COMPSCI 220 WITH GRADE OF C OR BETTER.	JUNIOR AND SENIOR CS MAJORS ONLY.	NO OPTION FOR PASS/FAIL. SATISFIES INTEGRATIVE EXPERI FOR CS MAJORS. MEETS WITH COMPSCI 429. GRADUATING PRIORITIZED AND PRE-ENROLLED BY THE PROGRAM. SEATS
		FOR INCOMING TRANSFER STUDENTS UNTIL THE END OF NET ORIENTATION AND TRANSFER (NSOT) ENROLLMENT PERIOD REMAINING SEATS WILL BE RELEASED AT THAT TIME. STUDE SPECIAL PERMISSION MUST REQUEST OVERRIDE VIA THE ON //www.cics.umass.edu/overrides.
CS MAJORS: CICS 210 (OR COMPSCI 187) WITH A GRADE OF C OR BETTER.	JUNIOR AND SENIOR CS AND INFORM MAJORS ONLY.	SEATS SAVED FOR INFORM MAJORS AND INCOMING TRANSF THE END OF NEW STUDENT ORIENTATION AND TRANSFER (N
(PREVIOUSLY INFO 190T OR COMPSCI 186 OR COMPSCI 187), BOTH WITH A GRADE OF C OR BETTER.		PERIOD AT THE END OF JULY. REMAINING SEATS WILL BE RE TIME. STUDENTS NEEDING SPECIAL PERMISSION MUST REQ THE ON-LINE FORM: https://www.cics.umass.edu/overrides.
COMPSCI 220 (OR COMPSCI 230) WITH A GRADE OF C OR BETTER.	JUNIOR AND SENIOR CS AND INFORM MAJORS ONLY.	THIS COURSE IS HYBRID. NO OPTION FOR PASS/FAIL. SATIS. EXPERIENCE REQUIREMENT FOR CS AND INFORM MAJORS.
		CHANGE EFFECTIVE FALL 2024: COMPSCI 220 (OR COMPSCI) BETTER. STUDENTS IN LEC 01 WILL ATTEND CLASS IN PERSO (LEC 02 WILL ATTEND CLASS IN PERSON ON THURSDAYS) AN REQUIRED TO WATCH RECORDED LECTURES ASYNCHRONO MINUTES OF CLASS PER WEEK. REQUIRED LABORATORY AT
		SYNCHES OF OLASS FLAWLER. REQUIRED EADORATON AT SYNCHRONOUSLY. SEATS ARE BEING SAVED FOR INFORM M. TRANSFER STUDENTS UNTIL THE END OF NEW STUDENT OR TRANSFER (NSOT) ENROLLMENT PERIOD AT THE END OF JUL WILL BE RELEASED AT THAT TIME. STUDENTS NEEDING SPE MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://w edu/overrides.
CS MAJORS: CICS 210 (OR COMPSCI 187) 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) ENROLI END OF JULY. REMAINING SEATS WILL BE RELEASED AT THA
(PREVIOUSLY INFO 190T OR COMPSCI 186 OR COMPSCI 187), BOTH WITH A GRADE OF C OR BETTER.		NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDE V https://www.cics.umass.edu/overrides.
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 PREREQU SEATS. STUDENTS WILL NEED TO SIGN A LOAN AGREEMENT
		HARDWARE KIT. STUDENTS NEEDING SPECIAL PERMISSION N OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu
CS MAJORS: CICS 210 (OR COMPSCI 187) WITH A GRADE OF C OR BETTER.	JUNIOR AND SENIOR CS AND INFORM MAJORS ONLY.	SEATS ARE BEING SAVED FOR INFORM MAJORS AND INCOMI STUDENTS UNTIL THE END OF NEW STUDENT ORIENTATION / (NSOT) ENROLLMENT PERIOD AT THE END OF JULY. REMAIN
(PREVIOUSLY INFO 190T OR COMPSCI 186 OR COMPSCI 187), BOTH WITH A GRADE OF C OR BETTER.		RELEASED AT THAT TIME. STUDENTS ARE EXPECTED TO HAN PROGRAMMING SKILLS, AND BE ABLE TO USE LAPTOPS IN CL HAVE TAKEN COMPSCI 445 ARE NOT ELIGIBLE AND SHOULD N STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST O LINE FORM: https://www.cics.umass.edu/overrides.
COMPSCI 230 WITH GRADE OF C OR BETTER.	JUNIOR AND SENIOR CS MAJORS ONLY.	BEGINNING IN FALL 2022, THIS COURSE CHANGED FROM CON COMPSCI 360. THE PREREQUISITE CHANGED TO REQUIRE CO
		FUTURE OFFERINGS OF COMPSCI 360 WILL CONTINUE TO CO ELECTIVE FOR THE CS MAJOR, BUT AT THE 300-LEVEL. STUD
	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. CICS 210 (OR COMPSCI 187) AND COMPSCI 250 (OR MATH 455), BOTH WITH A GRADE OF C OR BETTER. COMPSCI 220 WITH GRADE OF C OR BETTER. COMPSCI 220 WITH GRADE OF C OR BETTER. COMPSCI 220 WITH GRADE OF C OR BETTER. INFORM MAJORS: INFO 248 AND CICS 160 (PREVIOUSLY INFO 190T 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. COMPSCI 220 (OR COMPSCI 230) WITH A GRADE OF C OR BETTER. COMPSCI 220 (OR COMPSCI 230) WITH A GRADE OF C OR BETTER. COMPSCI 187), BOTH WITH A GRADE OF C OR BETTER. COMPSCI 187), BOTH WITH A GRADE OF C OR BETTER. COMPSCI 187), BOTH WITH A GRADE OF C OR BETTER. COMPSCI 220 (OR COMPSCI 230) WITH A GRADE OF C OR BETTER. COMPSCI 187), BOTH WITH A GRADE OF C OR BETTER. COMPSCI 220 (OR COMPSCI 230) WITH A GRADE OF C OR BETTER. COMPSCI 187), BOTH WITH A GRADE OF C OR BETTER. COMPSCI 187), BOTH WITH A GRADE OF C OR BETTER.	CICS 160 (PREVIOUSLY INFO 190T OR COMPSCI 167 OR CICS 160 (CS 210) AND MATH 132, BOTH WITH A GRADE OF C OR BETTER. CICS 210 (OR COMPSCI 167) AND COMPSCI 259 (OR MATH 455), BOTH WITH A GRADE OF C OR BETTER. COMPSCI 220 WITH GRADE OF C OR BETTER. COMPSCI 220 (OR COMPSCI 167) WITH A GRADE OF C OR BETTER. COMPSCI 187), BOTH WITH A GRADE OF C OR BETTER. COMPSCI 187), BOTH WITH A GRADE OF C OR BETTER. COMPSCI 220 (OR COMPSCI 187) WITH A GRADE OF C OR BETTER. COMPSCI 220 (OR COMPSCI 187) WITH A GRADE OF C OR BETTER. COMPSCI 220 (OR COMPSCI 187) WITH A GRADE OF C OR BETTER. COMPSCI 230) WITH A GRADE OF C OR BETTER. COMPSCI 230 (OR COMPSCI 187) WITH A GRADE OF C OR BETTER. COMPSCI 230 (OR COMPSCI 187) WITH A GRADE OF C OR BETTER. COMPSCI 230 (OR COMPSCI 187) WITH A GRADE OF C OR BETTER. COMPSCI 230 (OR COMPSCI 187) WITH A GRADE OF C OR BETTER. COMPSCI 230 (OR COMPSCI 187) WITH A GRADE OF C OR BETTER. COMPSCI 230 (OR COMPSCI 187) WITH A GRADE OF C OR BETTER. COMPSCI 230 (OR COMPSCI 187) WITH A GRADE OF C OR BETTER. COMPSCI 230 (OR COMPSCI 187) WITH A GRADE OF C OR BETTER. COMPSCI 230 (OR COMPSCI 187) WITH A GRADE OF C OR BETTER. COMPSCI 230 (OR COMPSCI 187) WITH A GRADE OF C OR BETTER. COMPSCI 230 (OR COMPSCI 187) WITH A GRADE OF C OR BETTER. COMPSCI 230 (OR COMPSCI 187) WITH A GRADE OF C OR BETTER. COMPSCI 230 (OR COMPSCI 187) WITH A GRADE OF C OR BETTER. COMPSCI 230 (OR COMPSCI 187) WITH A GRADE OF C OR BETTER. COMPSCI 230 (OR COMPSCI 187) WITH A GRADE OF C OR BETTER. COMPSCI 230 (OR COMPSCI 187) WITH A GRADE OF C OR BETTER. COMPSCI 230 (OR COMPSCI 187) WITH A GRADE OF C OR BETTER. COMPSCI 230 (OR COMPSCI 187) WITH A GRADE OF C OR BETTER. COMPSCI 230 (OR COMPSCI 230) WITH A GRADE OF C OR BETTER. COMPSCI 240 AND CICS 180 OR COMPSCI 270 (OR COMPSCI 240 AND CICS 180 OR COMPSCI 270, BOTH WITH A GRADE OF C OR BETTER. COMPSCI 270, BO

FFECT SPIRE ENROLLMENT.

DENTS UNTIL THE END OF OLLMENT PERIOD AT THE 'HAT TIME. STUDENTS E VIA THE ON-LINE FORM:

DENTS UNTIL THE END OF OLLMENT PERIOD AT THE 'HAT TIME. STUDENTS E VIA THE ON-LINE FORM:

ERIENCE REQUIREMENT NG SENIORS ARE ATS ARE BEING SAVED NEW STUDENT OD AT THE END OF JULY. JDENTS NEEDING CON-LINE FORM: https:

SFER STUDENTS UNTIL (NSOT) ENROLLMENT RELEASED AT THAT EQUEST OVERRIDE VIA

TISFIES INTEGRATIVE S. PREREQUISITE SCI 230) WITH A C OR RSON ON TUESDAYS AND STUDENTS ARE NOUSLY FOR SECOND 75 ATTENDANCE IS ON-LINE M MAJORS AND INCOMING ORIENTATION AND JULY. REMAINING SEATS SPECIAL PERMISSION s://www.cics.umass.

DENTS UNTIL THE END OF OLLMENT PERIOD AT THE HAT TIME. STUDENTS E VIA THE ON-LINE FORM:

QUISITE IF AVAILABLE NT FOR A PROVIDED N MUST REQUEST .edu/overrides

DMING TRANSFER DN AND TRANSFER AINING SEATS WILL BE HAVE BASIC I CLASS. STUDENTS WHO .D NOT ENROLL. ST OVERRIDE VIA THE ON-

COMPSCI 460 TO E COMPSCI 230. THIS AND COUNT AS A CS FUDENTS NEEDING IE ON-LINE FORM: https:

	PREREQUISITES	ELIGIBILITY RESTRICTIONS	CLASS NOTES/COMMENTS INFORMATION ONLY - DOES NOT AFFE
COMPSCI 363 COMPUTER CRIME LAW	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 F REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cic
Marvin Cable			
COMPSCI 377 OPERATING SYSTEMS Phuthipong Bovornkeeratiroj	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/overrides.
COMPSCI 383 ARTIFICIAL INTELLIGENCE William McNichols	CICS 210 AND COMPSCI 240 (OR STATISTC 315; PREVIOUSLY STATISTC 515), BOTH WITH A GRADE OF C OR BETTER] OR [INFO 348 AND STATISTC 315; PREVIOUSLY STATISTC 515, BOTH WITH A GRADE OF C OR BETTER.]	JUNIOR AND SENIOR CS AND INFORM MAJORS ONLY.	PREREQUISITE CHANGE EFFECTIVE FALL 2024: [CICS 210 AN STATISTC 315; PREVIOUSLY STATISTC 515), BOTH WITH A GR OR [INFO 348 AND STATISTC 315; PREVIOUSLY STATISTC 515, OF C OR BETTER.] STUDENTS NEEDING SPECIAL PERMISSIO OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.ed
COMPSCI 410 COMPILER TECHNIQUES	COMPSCI 230 AND COMPSCI 250 (OR MATH 455), BOTH WITH A GRADE OF C OR BETTER.	JUNIOR AND SENIOR CS MAJORS ONLY.	MEETS WITH COMPSCI 610. STUDENTS NEEDING SPECIAL PE REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cic
Hui Guan COMPSCI 420 SOFTWARE ENTREPRENEURSHIP Matthew Rattigan	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 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/. STUU THE UNDERGRADUATE CERTIFICATE IN PUBLIC INTEREST TE
COMPSCI 429 SOFTWARE ENGINEERING PROJ MGMT Gordon Anderson, Yuriy Brun, Heather Conboy, Jaime Davila	COMPSCI 320 WITH A GRADE OF B OR BETTER.	UNDERGRADUATE CS MAJORS ONLY.	ELIGIBLE VIA OVERRIDE. IF YOU HAVE QUESTIONS ABOUT TH EMAIL THE PIT CERTIFICATE PROGRAM DIRECTOR, PROFESS AT cschweik@umass.edu. STUDENTS NEEDING SPECIAL PERM REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cio INSTRUCTOR CONSENT REQUIRED. MEETS WITH COMPSCI 3 2023, PREREQUISITE CHANGE TO A GRADE OF B OR BETTER ELIGIBLE STUDENTS MAY EMAIL INSTRUCTOR FOR PERMISSI APPROVED TO ENROLL, NOTE INSTRUCTOR PERMISSION ON REQUEST AND SUBMIT VIA THE ON-LINE FORM: https://www.cio
COMPSCI 445 INFORMATION SYSTEMS Marco Serafini	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
COMPSCI 446 SEARCH ENGINES James Allan	COMPSCI 240 OR COMPSCI 383 WITH A GRADE OF C OR BETTER.	JUNIOR AND SENIOR CS MAJORS ONLY.	SEATS ARE BEING SAVED FOR INCOMING TRANSFER STUDEN NEW STUDENT ORIENTATION AND TRANSFER (NSOT) ENROLI END OF JULY. REMAINING SEATS WILL BE RELEASED AT THA WILL CONSIDER STATISTC 515 AS AN ALTERNATE PREREQUIS COMPSCI 240 VIA OVERRIDE IF AVAILABLE SEATS. STUDENTS PERMISSION MUST REQUEST OVERRIDE VIA THE ON-LINE FO umass.edu/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

FFECT SPIRE ENROLLMENT.

L PERMISSION MUST .cics.umass.edu/overrides.

T OVERRIDES VIA THE

AND COMPSCI 240 (OR GRADE OF C OR BETTER] 515, BOTH WITH A GRADE SION MUST REQUEST 5.edu/overrides.

PERMISSION MUST .cics.umass.edu/overrides.

THE UNDERGRADUATE NG THE STUDENT WORK MAKE SURE TO DISCUSS RUCTOR AT THE 'N THE CERTIFICATE: TUDENTS ENROLLED IN TECHNOLOGY ARE THE PIT CERTIFICATE, ESSOR CHARLIE SCHWEIK RMISSION MUST Acics.umass.edu/overrides.

CI 320. EFFECTIVE FALL ER IN COMPSCI 320. SSION TO ENROLL. ONCE ON THE OVERRIDE v.cics.umass.edu/overrides.

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

DENTS UNTIL THE END OF OLLMENT PERIOD AT THE THAT TIME. INSTRUCTOR QUISITE IN PLACE OF NTS NEEDING SPECIAL FORM: https://www.cics.

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/overrides

	PREREQUISITES	ELIGIBILITY RESTRICTIONS	CLASS NOTES/COMMENTS INFORMATION ONLY - DOES NOT AFFEC
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.	CS MAJORS ONLY.	THE COURSE IS BASED ON A FLIPPED CLASSROOM AND USES INSTRUCTION MODEL. SOME OF THE COURSE CONTENT IS DE HOWEVER STUDENTS ARE REQUIRED TO ATTEND WEEKLY CL. SENIOR AND JUNIOR CSENG MAJORS WITH APPROPRIATE BAC AVAILABLE SEATS. STUDENTS NEEDING SPECIAL PERMISSION OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu
COMPSCI 485 APPLICATIONS OF NLP Brendan O'Connor	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 LINGUISTICS MAJORS ONLY.	PREVIOUSLY COMPSCI 490A. STUDENTS FROM OTHER DISCIP CONSIDERED AS WELL IF AVAILABLE SEATS. STUDENTS NEED PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FO umass.edu/overrides.
COMPSCI 490Q QUANTUM INFORMATION SCIENCE Filip Rozpedek	MATH 132, MATH 235, AND COMPSCI 240 (OR STATISTC 315, PREVIOUSLY STATISTC 515), ALL WITH A GRADE OF C OR BETTER.	JUNIOR AND SENIOR CS AND INFORM MAJORS ONLY.	AFTER JUNIOR AND SENIOR CS AND INFORM MAJORS HAVE EN COURSE WILL OPEN TO JUNIOR AND SENIOR PHYSICS, MATH, MAJORS, WHO SHOULD WAIT FOR THE COURSE TO OPEN TO S 233, COMPSCI 250 AND 311 ARE HELPFUL BUT NOT NECESSAR WITH A C OR BETTER IN PHYSICS 281 OR PHYSICS 287 MAY RE OVERRIDE TO USE EITHER AS AN ALTERNATE FOR THE COMPS PREREQUISITE. STUDENTS NEEDING SPECIAL PERMISSION M OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu
COMPSCI 514 ALGORITHMS FOR DATA SCIENCE Andrew McGregor, Cameron Musco	UNDERGRADUATES: COMPSCI 240 (OR STATISTCS 515) AND COMPSCI 311, BOTH WITH A GRADE OF B+ OR BETTER (OR COMPSCI 240, STATISTCS 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. UNIV LEC 03: JUNIOR AND SENIOR CS MAJORS ONLY. UNIV LEC 04: MS-CMPSCI GRADUATE STUDENTS ONLY. UWW LEC 01: ONLINE MS-CMPSCI PROGRAM ONLY.	IN PERSON: LEC 01 FOR UNDERGRADS; LEC 02 FOR GRADS. O UNDERGRADS; LEC 04 FOR GRADS; UWW LEC 01 FOR ONLINE PROGRAM AND MS-CMPSCI ONLY. SEATS HELD IN LECT 02 FO STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERM REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics
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; LEC STUDENTS SHOULD BE FAMILIAR WITH BASIC CONCEPTS OF P (EXPECTATION, THE LAW OF TOTAL PROBABILITY), LINEAR OP WHAT IS A PRIMAL AND A DUAL), AND BASIC ALGEBRA (WHAT I SEATS HELD IN LECT 02 FOR INCOMING GRAD STUDENT REGIS STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OV ON-LINE FORM: https://www.cics.umass.edu/overrides.
COMPSCI 520 THEORY AND PRACTICE-SOFTENGIN Juan Zhai	UNDERGRADUATES: COMPSCI 320 (OR COMPSCI 220 AND COMPSCI 326) WITH C OR BETTER.	LEC 01: JUNIOR AND SENIOR CS MAJORS ONLY. LEC 02: MS-CMPSCI GRADUATE STUDENTS ONLY.	LECT 01 FOR UNDERGRADS; LECT 02 FOR GRADS. SEATS HEL INCOMING GRAD STUDENT REGISTRATION. STUDENTS NEEDI PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FO umass.edu/overrides.
COMPSCI 528 MOBILE AND UBIQ COMPUTING Phuc Nguyen	UNDERGRADUATES: COMPSCI 230 AND COMPSCI 240 WITH A GRADE OF C OR BETTER.	LEC 01: JUNIOR AND SENIOR CS MAJORS. LEC 02: MS-CMPSCI GRADUATE STUDENTS ONLY.	LEC 01 FOR UNDERGRADS; LEC 02 FOR GRADS. SEATS HELD II INCOMING GRAD STUDENT REGISTRATION. SOME BACKGROU LEARNING, SIGNAL PROCESSING, EMBEDDED SYSTEMS, PHYS HELPFUL. INSTRUCTOR PERMISSION FOR STUDENTS WITH AL PREREQUISITES. STUDENTS NEEDING SPECIAL PERMISSION I OVERRIDES VIA THE ONLINE FORM: https://www.cics.umass.edu/o
COMPSCI 532 SYSTEMS FOR DATA SCIENCE Peter Klemperer	UNDERGRADUATES: COMPSCI 377 AND COMPSCI 445 WITH A GRADE OF C OR BETTER.	UNIV LEC 01: JUNIOR AND SENIOR CS MAJORS ONLY. UNIV LEC 02: MS-CMPSCI GRADUATE STUDENTS ONLY. UWW 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. UWW LE MS-CMPSCI PROGRAM STUDENTS ONLY. PHDS OR ANY STUDI WAIVER CANNOT ENROLL IN A UWW SECTION. PHD OR OTHEF STUDENTS WHO NEED A UNIVERSITY COURSE SHOULD REGIS STARTING IN FALL 2022, THE UNDERGRADUATE PREREQUISITE COMPSCI 377 AND COMPSCI 445 WITH A C OR BETTER. COURS SYNCHRONOUS LIVE LECTURES ON MW 4-5:15 PM EDT. STUDE SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON //www.cics.umass.edu/overrides.
COMPSCI 560 INTRO COMPUTER&NETWRK SECURITY <i>Parviz Kermani</i>	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. UWW LEC 01: MS-CMPSCI GRADUATE STUDENTS ONLY.	UNIV LEC 01 FOR UNDERGRADS; UNIV LEC 02 FOR ELIGIBLE GF LEC 02 FOR INCOMING STUDENT REGISTRATION. UWW LEC 01 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 UWW SECTION. NO PREREQUIS ECE GRADUATE STUDENTS; HOWEVER, ANY EDUCATION IN SE 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/overrides.

FECT SPIRE ENROLLMENT.

ES A HYBRID DELIVERED ONLINE, CLASS MEETINGS. BACKGROUND, IF ION MUST REQUEST edu/overrides

CIPLINES WILL BE EEDING INSTRUCTOR FORM: https://www.cics.

E ENROLLED, THIS TH, AND ENGINEERING TO SELF-ENROLL. MATH GARY. PHYSICS MAJORS TREQUEST AN MPSCI 240 N MUST REQUEST edu/overrides.

S. ONLINE: LEC 03 FOR NE MS-CMPSCI FOR INCOMING GRAD ERMISSION MUST cics.umass.edu/overrides.

LECT 02 FOR GRADS. DF PROBABILITY THEORY OPTIMIZATION (SYNTAX, AT IS A VECTOR SPACE). EGISTRATION. T OVERRIDES VIA THE

HELD IN LECT 02 FOR EDING SPECIAL FORM: https://www.cics.

D IN LEC 02 FOR ROUND IN MACHINE HYSICAL COMPUTING IS ALTERNATE ON MUST REQUEST du/overrides.

BLE GRADS; SEATS HELD V LECT 01 FOR ONLINE FUDENT WITH A TUITION HER GRADUATE LEVEL EGISTER IN UNIV LECT 02. ISITE CHANGED TO DURSE IS ONLINE WITH FUDENTS NEEDING E ON-LINE FORM: https:

E GRADS; SEATS HELD IN C 01 IS FULLY REMOTE RDING TO SCHEDULE, DENTS (EXCEPT MS-DENT WITH A TUITION QUISITES FOR CS OR I SECURITY REQUIRES A DGE OF COMPSCI 453, BENEFIT FROM THIS I REQUEST OVERRIDES

	PREREQUISITES	ELIGIBILITY RESTRICTIONS	CLASS NOTES/COMMENTS INFORMATION ONLY - DOES NOT AFFEC
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. UWW LEC 01: MS-CMPSCI GRADUATE STUDENTS ONLY.	UNIV LEC 01 FOR UNDERGRADS; UNIV LEC 02 FOR ELIGIBLE GI LEC 02 FOR INCOMING STUDENT REGISTRATION. UWW LEC 01 REMOTE ATTENDANCE AT SPECIFIED MEETING TIMES IS REQU CMPSCI STUDENTS AND OTHER GRADUATE STUDENTS (EXCEI INSTRUCTOR PERMISSION. PHDS OR ANY STUDENT WITH A TO CANNOT ENROLL IN A UWW SECTION. STUDENTS NEEDING SF FOR EITHER UNIVERSITY SECTION MUST REQUEST OVERRIDE FORM: https://www.cics.umass.edu/overrides.
COMPSCI 575 COMBINATORICS AND GRAPH THEORY Mark Wilson	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/overrides.
COMPSCI 576 GAME PROGRAMMING Evangelos Kalogerakis	UNDERGRADUATES: COMPSCI 220 AND MATH 235 BOTH WITH A GRADE OF C OR BETTER, AND COMPSCI 311 WITH A GRADE OF C OR BETTER (OR COMPSCI 250 WITH A GRADE OF B+ OR BETTER).	LECT 01: JUNIOR AND SENIOR CS MAJORS ONLY. LECT 02: MS-CMPSCI STUDENTS ONLY.	PREVIOUSLY COMPSCI 590G. LECT 01 FOR UNDERGRADS; LEC +/UWW LECT 01 OPEN TO MS-COMPSCI ONLINE PROGRAM. CO ONLINE, ASYNCHRONOUS WITH OPTIONAL SYNCHRONOUS LIN 8:30-9:45AM. SEATS HELD IN LECT 02 FOR INCOMING GRAD ST REGISTRATION. STUDENTS NEEDING INSTRUCTOR PERMISSIO OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu
COMPSCI 589 MACHINE LEARNING Justin Domke	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. UWW LEC 01: ONLINE MS-CMPSCI GRADUATE PROGRAM STUDENTS ONLY.	ONLINE: LEC 01 FOR UNDERGRADS; LEC 02 FOR GRADS; UWM MS-CMPSCI ONLY. SEATS HELD IN LEC 02 FOR INCOMING GRA REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION M OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu
COMPSCI 590X DECARBONIZATION AND DATA SCI Jayant Taneja	UNDERGRADUATES: EITHER [COMPSCI 240 (OR STATISTC 515) AND CICS 210 (OR COMPSCI 187) BOTH WITH A GRADE OF C OR BETTER] OR [INFO 348 WITH A GRADE OF C OR BETTER].	LEC 01: JUNIOR AND SENIOR CS AND INFORM MAJORS ONLY. LEC 02: MS-CMPSCI STUDENTS ONLY.	LECT 01 FOR UNDERGRADS; LECT 02 FOR GRADS. SEATS HEL GRADUATE STUDENT REGISTRATION. STUDENTS NEEDING SF MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://ww edu/overrides.
COMPSCI 596E IS-ML APPLIED TO CHILD RESCUE STAFF		UNIV LEC 01: SENIOR CS MAJORS AND CS GRADUATE STUDENTS ONLY. UWW LEC 01: ONLINE MS-CMPSCI PROGRAM STUDENTS ONLY.	INSTRUCTOR PERMISSION REQUIRED. CS SENIOR OR CS GRA WITH A MACHINE LEARNING BACKGROUND. WE EXPECT HIGH COMPSCI 589 OR COMPSCI 682. PHDS OR ANY STUDENT WITH CANNOT ENROLL IN A UWW SECTION. SYNCHRONOUS MEETIN CONTACT INSTRUCTOR FOR CONSIDERATION AT brian@cs.uma
COMPSCI 602 RESEARCH METHODS-EMPIRICAL CS David Jensen		CMPSCI GRADUATE STUDENTS ONLY.	PREVIOUSLY COMPSCI 691DD. SEATS HELD FOR INCOMING G REGISTRATION. UNDERGRADUATE CHC CS MAJORS WITH INS UPD PERMISSION. STUDENTS NEEDING SPECIAL PERMISSION OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu
COMPSCI 610 COMPILER TECHNIQUES Hui Guan		CMPSCI GRADUATE STUDENTS ONLY.	SENIOR CS MAJORS MAY TAKE FOR CREDIT IF PREREQUISITE ARE MET WITH PERMISSION OF INSTRUCTOR. MEETS WITH CO HELD FOR INCOMING GRAD STUDENT REGISTRATION. STUDE SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON //www.cics.umass.edu/overrides.
COMPSCI 611 ADVANCED ALGORITHMS Hung Le		CMPSCI GRADUATE STUDENTS ONLY.	MATHEMATICAL MATURITY WITH KNOWLEDGE OF ALGORITHM COMPSCI 311 EXPECTED OF INCOMING CS GRADUATE STUDE! PERMISSION REQUIRED FOR UNDERGRADUATE CS MAJORS C IF AVAILABLE SEATS. SEATS HELD FOR INCOMING GRAD STUE STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST O' ON-LINE FORM: https://www.cics.umass.edu/overrides.

FECT SPIRE ENROLLMENT.

E GRADS; SEATS HELD IN C 01 SYNCHRONOUS EQUIRED; FOR MS-(CEPT MS-ECE) WITH A TUITION WAIVER S SPECIAL PERMISSION (IDES VIA THE ON-LINE

S; LECT 02 FOR GRADS. NSTRUCTOR EDING SPECIAL FORM: https://www.cics.

LECT 02 FOR GRADS; U COURSE FULLY LIVE LECTURES T/TH STUDENT SSION MUST REQUEST edu/overrides.

WW LEC 01 FOR ONLINE GRAD STUDENT NMUST REQUEST edu/overrides.

HELD FOR INCOMING SPECIAL PERMISSION //www.cics.umass.

GRADUATE STUDENT IGH GRADES IN /ITH A TUITION WAIVER ETINGS ARE REQUIRED. umass.edu.

G GRADUATE INSTRUCTOR, HPD, AND ION MUST REQUEST edu/overrides.

ITES FOR COMPSCI 410 I COMPSCI 410. SEATS IDENTS NEEDING E ON-LINE FORM: https:

HMS AT THE LEVEL OF DENTS. INSTRUCTOR S CLEARED BY THE UPD, TUDENT REGISTRATION. F OVERRIDES VIA THE

	PREREQUISITES	ELIGIBILITY RESTRICTIONS	CLASS NOTES/COMMENTS INFORMATION ONLY - DOES NOT AFFE
COMPSCI 646 INFORMATION RETRIEVAL Razieh Rahimi		CMPSCI GRADUATE STUDENTS ONLY.	INSTRUCTOR PERMISSION REQUIRED FOR SENIOR CS MAJOI 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 PEF REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cic
COMPSCI 648 QUANTUM INFORMATION SYSTEMS Stefan Krastanov		CMPSCI GRADUATE STUDENTS ONLY.	PREVIOUSLY COMPSCI 690Q. FAMILIARITY WITH LINEAR ALG CALCULUS (MATH 131/132). KNOWLEDGE OF SOME PROBABIL MATH. KNOWLEDGE OF QUANTUM MECHANICS IS NOT A PRE CONCEPTS INTRODUCED AS NEEDED. KNOWLEDGE OF ALG COMPLEXITY ARE NOT PREREQUISITES; ALSO INTRODUCED
COMPSCI 653 COMPUTER NETWORKING		CMPSCI GRADUATE STUDENTS ONLY.	HELD FOR INCOMING GRAD STUDENT REGISTRATION. STUDI SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE O //www.cics.umass.edu/overrides. ECE GRADUATE STUDENTS IF AVAILABLE SEATS. SEATS HEL GRAD STUDENT REGISTRATION. STUDENTS NEEDING INSTRU MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://w
Arun Venkataramani			edu/overrides.
COMPSCI 655 PERFORMANCE EVALUATION Donald Towsley		CMPSCI GRADUATE STUDENTS ONLY.	UNDERGRADUATE OR GRADUATE COURSE ON PROBABILITY SEATS HELD FOR INCOMING STUDENT REGISTRATION. STUE SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE O //www.cics.umass.edu/overrides.
COMPSCI 660 ADV INFORMATION ASSURANCE Amir Houmansadr		CMPSCI GRADUATE STUDENTS ONLY.	INSTRUCTOR PERMISSION REQUIRED FOR UNDERGRADUATE 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 STUDEI STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST O ON-LINE FORM: https://www.cics.umass.edu/overrides.
COMPSCI 661 SECURE DISTRIBUTED SYSTEMS Gregory Stone		UNIV LEC 01: CMPSCI AND ECE GRADUATE STUDENTS ONLY. UWW LEC 01: MS-CMPSCI GRADUATE STUDENTS ONLY.	UNIV LEC 01 FOR ELIGIBLE GRADS; SEATS HELD FOR INCOMI REGISTRATION. UWW LEC 01 FULLY REMOTE WITH REQIRED SYNCHRONOUS MEETINGS AT THE SCHEDULED TIME; FOR M OTHER GRADUATE STUDENTS (EXCEPT MS-ECE) WITH INSTR PHDS OR ANY STUDENT WITH A TUITION WAIVER CANNOT EN SECTION. THE COURSE IS BASED ON A FLIPPED CLASSROOM COURSE CONTENT IS DELIVERED ONLINE AND STUDENTS AR OR READ THESE MATERIALS AHEAD OF CLASS MEETINGS IN DISCUSSION. PHYSICAL ATTENDANCE IS REQUIRED FOR IN-F STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST (ON-LINE FORM: https://www.cics.umass.edu/overrides.
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 SPECI. REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cic
COMPSCI 670 COMPUTER VISION Grant Van Horn		CMPSCI GRADUATE STUDENTS ONLY.	PREREQUISITES ARE LINEAR ALGEBRA, CALCULUS 1 AND 2, I CALCULUS OR PERMISSION OF INSTRUCTOR. STATS 515 OR INSTRUCTOR. ADVANCED UNDERGRADUATES WITH PERMISS SEATS HELD FOR INCOMING GRAD STUDENT REGISTRATION. INSTRUCTOR PERMISSION MUST REQUEST OVERRIDES VIA T https://www.cics.umass.edu/overrides.
COMPSCI 677 DISTRIBUTED AND OPERATING SYS Peter Klemperer		UNIV LEC 01: GRADUATE CMPSCI AND ECE STUDENTS ONLY. UWW LEC 01: ONLINE MS-CMPSCI PROGRAM STUDENTS ONLY.	COURSE IS ONLINE, SYNCHRONOUS LECTURES ON MW 2:30- WILL BE RECORDED FOR VIEWING AT OTHER TIMES. ATTENE SYCHRONOUS IS OPTIONAL. INSTRUCTOR PERMISSION REQ CS MAJORS CLEARED BY THE UPD, IF AVAILABLE SEATS. BAI UNDERGRAD OS (COMPSCI 377) IS HELPFUL. SEATS HELD FO STUDENT REGISTRATION. UNIV LEC 01: OPEN TO GRADUATE UWW LECT 01: ONLINE MS-CMPSCI PROGRAM

FFECT SPIRE ENROLLMENT.

JORS WHO MEET THE C OR BETTER AND HELD FOR INCOMING PERMISSION MUST .cics.umass.edu/overrides.

ALGEBRA (MATH 235) AND ABILITY AND DISCRETE PREREQUISITE; QUANTUM ALGORITHMS AND ED AS NEEDED. SEATS UDENTS NEEDING IE ON-LINE FORM: https:

ELD FOR INCOMING RUCTOR PERMISSION ://www.cics.umass.

TY THEORY ASSUMED. "UDENTS NEEDING E ON-LINE FORM: https:

ATE CS MAJORS WHO 66, OR EQUIVALENT AND DENTS BY PERMISSION DENT REGISTRATION. TO VERRIDES VIA THE

MING STUDENT RED ONLINE RMS-CS STUDENTS AND STRUCTOR PERMISSION. ENROLL IN A UWW DOM. MUCH OF THE ARE EXPECTED TO VIEW IN PREPARATION FOR IN-PERSON SECTIONS. ST OVERRIDES VIA THE

BEING COMFORTABLE SAVED FOR INCOMING ECIAL PERMISSION MUST .cics.umass.edu/overrides.

2, MULTI-VARIATE OR PERMISSION OF MISSION OF INSTRUCTOR. ON. STUDENTS NEEDING IA THE ON-LINE FORM:

30-3:45 EDT. LECTURES ENDANCE AT REQUIRED FOR SENIOR BACKGROUND IN D FOR INCOMING GRAD ATE CMPSCI STUDENTS.

	PREREQUISITES	ELIGIBILITY RESTRICTIONS	CLASS NOTES/COMMENTS INFORMATION ONLY - DOES NOT AFFE
COMPSCI 682 NEURAL NETWORKS:MODERN INTRO Chuang Gan, Subhransu Maji		UNIV LEC 01: CMPSCI GRADUATE STUDENTS ONLY. UWW LEC 01: ONLINE MS-CMPSCI GRADUATE PROGRAM STUDENTS ONLY.	UNIV LECT 01 FOR ELIGIBLE GRADS; SEATS HELD FOR INCOM REGISTRATION. UWW LECT 01 FOR ONLINE MS-CMPSCI PROG ONLY. PHDS OR ANY STUDENT WITH A TUITION WAIVER CAN UWW SECTION. REQUIRED BACKGROUND FOR THE COURSE FOLLOWING. MULTIVARIATE CALCULUS, LINEAR ALGEBRA, AI STATISTICS. PROGRAMMING IN PYTHON OR EQUIVALENT HIG UNDERGRADUATES AND STUDENTS NEEDING SPECIAL PERM REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cic
COMPSCI 687 REINFORCEMENT LEARNING <i>Bruno Castro da Silva</i>		CMPSCI GRADUATE STUDENTS ONLY.	A STRONG MATHEMATICAL BACKGROUND IN CALCULUS, LINE STRATEGIES FOR PROVING THEOREMS, AND PROGRAMMING REQUIRED. IN ADDITION, A BACKGROUND IN MACHINE LEARN AND COMPSCI 689) AND ARTIFICIAL INTELLIGENCE (COMPSCI SEATS ARE RESERVED FOR INCOMING GRAD STUDENT REGIS REQUIRING SPECIAL PERMISSION MUST REQUEST OVERRIDE FORM: https://www.cics.umass.edu/overrides.
COMPSCI 688 PROBABILISTIC GRAPHICAL MODELS Daniel Sheldon		CMPSCI GRADUATE STUDENTS ONLY.	SEATS HELD FOR INCOMING GRAD STUDENT REGISTRATION. SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE O //www.cics.umass.edu/overrides.
COMPSCI 689 MACHINE LEARNING Benjamin Marlin		CMPSCI GRADUATE STUDENTS ONLY.	PERMISSION OF INSTRUCTOR FOR UNDERGRADUATES WHO COMPSCI 589, IF CLEARED BY THE UPD AND AVAILABLE SEAT INCOMING GRAD STUDENT REGISTRATION. STUDENTS NEED PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FO umass.edu/overrides.
COMPSCI 690K ADV ROBOT DYNAMICS AND CONTROL Donghyun Kim		CMPSCI, ECE, AND MIE GRADUATE STUDENTS ONLY.	PREFERRED TO KNOW LINEAR ALGEBRA, BASIC PHYSICS, AN STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST C ON-LINE FORM: https://www.cics.umass.edu/overrides.
COMPSCI 692P S-HOT TOPICS:SFTWR ENGG RSRCH Yuriy Brun, Juan Zhai		CMPSCI GRADUATE STUDENTS ONLY.	FALL 2024 OFFERING 1 CREDIT ONLY. CS UNDERGRADUATES INSTRUCTOR. STUDENTS NEEDING SPECIAL PERMISSION MU OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.ed
COMPSCI 692X S-ML ON BIOLOGICAL SEQNCE DATA Anna Green		CMPSCI GRADUATE STUDENTS ONLY.	STUDENTS SHOULD HAVE TAKEN COMPSCI 690U COMPUTATI BIOINFORMATICS, OR HAVE COMPARABLE BACKGROUND. PH RELATED DISCIPLINES WITH INSTRUCTOR PERMISSION. STU SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE O //cics.umass.edu/overrides
COMPSCI 698W P-CS RESRCH WRITNG PRACTICUM Justin Obara		CMPSCI PHD STUDENTS ONLY.	MAY BE REPEATED FOR CREDIT ONCE. SECT 01 (9/4-10/21/24) -12/9/24). STUDENTS NEEDING SPECIAL PERMISSION MUST R VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides.
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 I THAT WILL BE COMPLETED OVER TWO SEMESTERS WITH ENF ONE SEMESTER. REQUEST OVERRIDE VIA THE SPECIAL ON-L //www.cics.umass.edu/content/registration

FECT SPIRE ENROLLMENT.

OMING GRAD STUDENT ROGRAM STUDENTS ANNOT ENROLL IN A SE INCLUDES THE A, AND PROBABILITY AND HIGH LEVEL LANGUAGE. RMISSION MUST .cics.umass.edu/overrides.

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

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

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

AND BASIC CONTROL. T OVERRIDES VIA THE

ES WITH PERMISSION OF MUST REQUEST .edu/overrides.

ATIONAL BIOLOGY AND PHD STUDENTS FROM TUDENTS NEEDING E ON-LINE FORM: https:

/24); SECT 02 (10/23 T REQUEST OVERRIDES

A TWO-SEMESTER DN IS FOR A PROJECT ENROLLMENT IN ONLY DN-LINE FORM: https:

	PREREQUISITES	ELIGIBILITY RESTRICTIONS	CLASS NOTES/COMMENTS INFORMATION ONLY - DOES NOT AFFEC
COMPSCI 701Y ADV TOPICS IN CMPSCI (1ST SEM)		DOCTORAL, MASTERS CMPSCI GRADUATE STUDENTS ONLY.	INDICATES THE FIRST SEMESTER OF A TWO-SEMESTER SEQUE CREDITS) FOLLOWED BY 701 (3 CREDITS), WITH GRADE FOR BC THE END. REQUEST OVERRIDE VIA THE SPECIAL ON-LINE FOR umass.edu/content/registration
COMPSCI 879 TEACH ASSTS-TOMORROW'S FACULTY Neena Thota			COURSE IS ASSOCIATED WITH CICS TA EMPLOYMENT. REQUIP TA CONTRACT. REGISTRATION WILL BE PROCESSED BY THE A DIRECTOR GRADUATE PROGRAMS AFTER SIGNED AND APPRO OPEN TO CICS TEACHING ASSISTANTS ONLY.
COMPSCI 891M S-THEORY OF COMPUTATION Hung Le		DOCTORAL, MASTERS GRADUATE STUDENTS ONLY.	MAY BE REPEATED FOR CREDIT UP TO 6 TIMES. UNDERGRADU STUDENTS NOT MEETING ELIGIBILITY MUST REQUEST OVERRI LINE FORM: https://www.cics.umass.edu/overrides.
COMPSCI 899 PHD DISSERTATION			COURSE OPEN ONLY TO CS GRADUATE STUDENTS WHO HAVE CANDIDACY. REQUEST ENROLLMENT VIA THE SPECIAL ON-LIN cics.umass.edu/content/registration
COMPSCI H311 HNRS COLLOQ: INTRO ALGORITHMS Marius Minea	CICS 210 (OR COMPSCI 187) AND COMPSCI 250 (OR MATH 455) WITH A GRADE OF C OR BETTER [OR COMPSCI 311 WITH A GRADE OF B OR BETTER].	COMMONWEALTH HONORS COLLEGE JUNIOR AND SENIOR CS MAJORS ONLY.	DEPARTMENT CONSENT REQUIRED. NO OPTION FOR PASS/FA BE ENROLLED IN COMPSCI 311 (OR HAVE COMPLETED COMPSC OF B OR BETTER). INTERESTED STUDENTS MUST REQUEST OV LINE FORM: https://www.cics.umass.edu/overrides.
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 MUST OVERRIDE VIA ON-LINE FORM: https://www.cics.umass.edu/overric
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/FAI 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/
INFO 101 INTRO TO INFORMATICS Michelle Trim		UNDERGRADUATE NON-CS MAJORS ONLY.	CS MAJORS ARE NOT ELIGIBLE FOR THIS COURSE. FOUNDATIC THE INFORMATICS MAJOR. STUDENTS NEEDING SPECIAL PERM REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.
INFO 150 MATH FOUND-INFORMATICS David Barrington		INFORM MAJORS ONLY.	CS AND MATH (STATISTICS) MAJORS ARE NOT ELIGIBLE FOR TH 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; NOT REQUIRED. STUDENTS NEEDING SPECIAL PERMISSION MUST I OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/

FECT SPIRE ENROLLMENT.

QUENCE, 701Y (3 R BOTH ASSIGNED AT ORM: https://www.cics.

QUIRED COMPONENT OF IE ASSOCIATE PROVED CONTRACT.

ADUATES AND OTHER RRIDES VIA THE ON-

AVE ACHIEVED -LINE FORM: https://www.

FAIL. STUDENTS MUST IPSCI 311 WITH A GRADE T OVERRIDE VIA ON-

FAIL. STUDENTS MUST UST REQUEST errides.

FAIL. STUDENTS MUST IPSCI 446 WITH A GRADE ON MUST REQUEST edu/overrides.

ATIONS COURSE FOR ERMISSION MUST cics.umass.edu/overrides.

R THIS COURSE. AFTER ON-CS AND NON-IHE MAJOR ELIGIBILITY O THE WAITLIST (IF ITICIPATED OPENING NOT ABSOLUTELY ST REQUEST edu/overrides.

	PREREQUISITES	ELIGIBILITY RESTRICTIONS	CLASS NOTES/COMMENTS INFORMATION ONLY - DOES NOT AFFEC
INFO 203 A NETWORKED WORLD Mohammadhassan Hajiesmaili		INFORM MAJORS ONLY.	CS MAJORS ARE NOT ELIGIBLE FOR THIS COURSE. AFTER INF 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 O ON-LINE FORM: https://www.cics.umass.edu/overrides.
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 515 WITH A GRADE OF C OR BETTER.	INFORM MAJORS ONLY.	PREREQUISITE CHANGE APPROVED BY THE FACULTY SENATE 2024, TO ALLOW ADDITIONAL PROGRAMMING COURSES. PRE' WITH A PROGRAMMING LANGUAGE (OTHER THAN COMPSCI 12 CONSIDERED FOR OVERRIDE. BASIC MATHEMATICAL MATURI ALGEBRA) IS ASSUMED. BASIC PROBABILITY AND STATISTICS, THE COURSES REQUIRED FOR REGISTRATION ON SPIRE IS RE COURSE CONSISTS OF TWO LECTURES AND ONE LAB SECTIO LECTURE MEETING INCLUDES A PRESENTATION OF CONCEPT WELL AS SOME TIME TO WORK ON IMPLEMENTATION OF THE PRESENTED. IN LAB TIME, STUDENTS RECEIVE DETAILED INST USE OF SOFTWARE TOOLS TO ANALYZE ACTUAL DATA SETS. ASSIGNED AS PREPARATION FOR EACH CLASS MEETING. A PF ASSIGNED DURING THE COURSE. STUDENTS WORK IN PAIRS OF THE PROJECT PROVIDES STUDENTS WITH AN OPPORTUNITY ' COLLABORATIVELY TO EXPLORE A TOPIC IN MORE DEPTH. ST SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE OU //www.cics.umass.edu/overrides.
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 I PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FO umass.edu/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 HELF REQUIRED. STUDENTS WITH ALTERNATE PROGRAMMING OR BACKGROUND MAY REQUEST OVERRIDE FOR CONSIDERATIO CHANGE HAS BEEN APPROVED BY THE FACULTY SENATE TO I WITH CICS 160. AFTER INFORM MAJORS REGISTER, INFO 348 UNDERGRADUATES, IF AVAILABLE SEATS. STUDENTS MEETIN SHOULD WAIT FOR THE MAJOR ELIGIBILITY RESTRICTION TO F SELF-ENROLL OR ADD TO THE WAITLIST (IF AVAILABLE) AND S REQUEST AN OVERRIDE. STUDENTS NEEDING SPECIAL PERM REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics
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 WITH STATISTC 240 (OR EQUIVALENT) AND ONE OF COMPSCI 119, C WITH INSTRUCTOR PERMISSION, IF AVAILABLE SEATS. STUDE SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE OI //www.cics.umass.edu/overrides.

FECT SPIRE ENROLLMENT.

INFORM MAJORS ADUATES WHO SHOULD MOVED TO SELF-ENROLL T REQUEST AN EK OF CLASSES. T OVERRIDES VIA THE

ATE, EFFECTIVE SPRING PREVIOUS EXPERIENCE CI 121) MAY BE URITY (COLLEGE ICS, SUCH AS ONE OF S REQUIRED. THIS TION PER WEEK. EACH EPTUAL MATERIAL AS HE MATERIAL NSTRUCTION ON THE TS. READINGS WILL BE A PROJECT WILL BE RS ON THE PROJECT. TY TO WORK . STUDENTS NEEDING E ON-LINE FORM: https:

NFORMATICS HEALTH OF HEALTH DATA OR INED TO INTRODUCE IS NEEDING SPECIAL FORM: http://www.cics.

IELPFUL BUT NOT OR STATISTICS TION. A PREREQUISITE TO REPLACE CICS 210 348 WILL OPEN TO ALL ETING PREREQUISITE TO BE REMOVED TO ID SHOULD NOT ERMISSION MUST .cics.umass.edu/overrides.

/ITH A C OR BETTER IN 9, CICS 108, OR CICS 110 JDENTS NEEDING E ON-LINE FORM: http: