

SPIRE REGISTRATION INFORMATION for 2023 Fall

PREREQUISITES

ELIGIBILITY RESTRICTIONS

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

CICS 110
FOUNDATIONS OF PROGRAMMING

STAFF, David Barrington, Cole Reilly, Timothy Richards, Rui Wang

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.

FRESHMEN, SOPHOMORE AND JUNIOR CS AND INFORM MAJORS ONLY.

PREVIOUSLY INFO 190S. STUDENTS ARE NOT PERMITTED TO TAKE CICS 110 AFTER SUCCESSFULLY COMPLETING COMPSCI 121 OR INFO 190S. A PREREQUISITE CHANGE TO ALLOW STUDENTS WITH A MATH PLACEMENT TEST (MPT) SCORE OF 15 OR HIGHER HAS BEEN APPROVED, EFFECTIVE SUMMER 2023. AFTER ELIGIBLE CS/INFORM MAJORS HAVE ENROLLED, WILL OPEN TO FRESHMEN, SOPHOMORE, AND JUNIOR NON-CS/INFORM MAJORS, IF AVAILABLE SEATS. FRESHMEN, SOPHOMORE, AND JUNIOR NON-CS/INFORM MAJORS SHOULD WAIT FOR THE ELIGIBILITY RESTRICTION TO BE REMOVED TO SELF-ENROLL OR ADD TO THE WAITLIST AND SHOULD NOT REQUEST AN OVERRIDE. LECT 06 IS RESERVED FOR CICS CONNECT: FIERCE RAP IN CRABTREE DORM. FIERCE RAP AND STEM STUDENTS ONLY. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <https://www.cics.umass.edu/overrides>.

CICS 160
OBJECT-ORIENTED PROGRAMMING

Jaime Davila

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 TAKE CICS 160 AFTER SUCCESSFULLY COMPLETING COMPSCI 186 OR INFO 190T. USE OF PERSONAL LAPTOP IN CLASS IS REQUIRED. AFTER ELIGIBLE CS/INFORM MAJORS HAVE ENROLLED, WILL OPEN TO FRESHMEN, SOPHOMORE, AND JUNIOR NON-CS/INFORM MAJORS, IF AVAILABLE SEATS. FRESHMEN, SOPHOMORE, AND JUNIOR NON-CS/INFORM MAJORS SHOULD WAIT FOR THE ELIGIBILITY RESTRICTION TO BE REMOVED TO SELF-ENROLL OR ADD TO THE WAITLIST AND SHOULD NOT REQUEST AN OVERRIDE. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDE VIA THE ON-LINE FORM: <https://www.cics.umass.edu/overrides>.

CICS 208
DEFEND DEMOCRACY-DIGITAL WORLD

Ethan Zuckerman

DUE TO A CHANGE IN THE TEACHING MODEL, THERE IS A DISCUSSION SECTION CONNECTED TO THE CICS 208 LECTURE. STUDENTS MUST ENROLL IN BOTH THE LECTURE AND DISCUSSION. HOWEVER, STUDENTS ARE NOT REQUIRED TO ATTEND A SEPARATE DISCUSSION AND THE DISCUSSION SECTION WILL NOT CONFLICT WITH OTHER COURSES ON THE STUDENT'S SCHEDULE. PREVIOUSLY CICS 297DP. CROSS-LISTED WITH SPP 208 AND COMM 208. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <https://www.cics.umass.edu/overrides>

CICS 210
DATA STRUCTURES

Marc Liberatore

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 SUCCESSFULLY COMPLETING COMPSCI 187. AFTER ELIGIBLE CS/INFORM MAJORS HAVE ENROLLED, WILL OPEN TO FRESHMEN, SOPHOMORE, AND JUNIOR NON-CS/INFORM MAJORS, IF AVAILABLE SEATS. FRESHMEN, SOPHOMORE, AND JUNIOR NON-CS/INFORM MAJORS SHOULD WAIT FOR THE ELIGIBILITY RESTRICTION TO BE REMOVED TO SELF-ENROLL OR ADD TO THE WAITLIST AND SHOULD NOT REQUEST AN OVERRIDE. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <https://www.cics.umass.edu/overrides>.

CICS 256
MAKE: PHYSICAL COMPUTING

Md Farhan Tasnim Oshim

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 LAB SECTION AND COUNTS TOWARD THE CS LAB SCIENCE REQUIREMENT FOR THE BS-CS. THIS OFFERING IS OPEN TO SOPHOMORE AND FRESHMEN BS-CS MAJORS ONLY. AFTER SOPHOMORE AND FRESHMEN REGISTER, PROGRAM WILL CONSIDER OPENING TO JUNIOR BS-CS MAJORS, IF AVAILABLE SEATS. JUNIOR BS-CS MAJORS SHOULD WAIT FOR ELIGIBILITY TO OPEN TO SELF-ENROLL OR ADD TO THE WAITLIST AND SHOULD NOT REQUEST AN OVERRIDE. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <https://www.cics.umass.edu/overrides>.

CICS 290A
INTRO RESRCH IN THE DISCIPLINE

Neena Thota

CREDIT CHANGE FROM 1 TO 2 CREDITS, EFFECTIVE FALL 2022. ERSP PROGRAM PARTICIPANTS ONLY. STUDENTS CAN APPLY DURING THE APPLICATION PERIOD AND BE ACCEPTED TO THE PROGRAM AT THE END OF THEIR FIRST YEAR (SPRING TERM). THEY ARE THEN ENROLLED IN THIS COURSE IN THE FALL OF THE SECOND YEAR. STUDENTS DO NOT SELF ENROLL IN THIS COURSE. PROGRAM PARTICIPANTS INTERESTED IN ENROLLING SHOULD CONTACT INSTRUCTOR WHO WILL PROVIDE CICS ACADEMIC PROGRAMS WITH A LIST FOR REGISTRATION.

CICS 291T
S-CICS TRANSFER SUCCESS

Emma Anderson

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

CICS 298A
P-LEADRSHP:COMMUNCTNG-EXPTISE

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 OR INFORM MAJORS ONLY.

SENIORS AND STUDENTS IN OTHER MAJORS MAY BE CONSIDERED IF AVAILABLE SEATS. STUDENTS FROM OTHER MAJORS MAY BENEFIT FROM THIS COURSE. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <https://www.cics.umass.edu/overrides>.

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CICS 305
SOC ISS IN CMPTNG
Erin Butler, Elizabeth Gunther, Siobhan Mei, 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 LECTURES FOR CS MAJORS; EVEN LECTURES FOR INFORM MAJORS. ELIGIBILITY LIMITED TO CS OR INFORMATICS PRIMARY MAJORS ONLY. CS OR INFORMATICS SECONDARY MAJOR MUST TAKE JUNIOR YEAR WRITING COURSE WITHIN PRIMARY MAJOR DEPARTMENT. LECT 01-02 MEET TOGETHER; LECT 03-04..., ETC. SPIRE WILL ONLY RECOGNIZE THE ENGLWRIT112 PREREQUISITE WHEN TAKEN AT UMASS AMHERST. JUNIOR AND SENIOR CS AND INFORM MAJORS WITH AP CREDIT, TRANSFER CREDIT, OR A WAIVER FOR ENGLWRIT112 WHO MEET THE OTHER STATED PREREQUISITES WILL NEED ASSISTANCE TO ENROLL VIA THE OVERRIDE FORM: <https://www.cics.umass.edu/overrides>.

CICS 398T
P-CPT

UNDERGRADUATE CS MAJORS ONLY.

INTERNATIONAL UNDERGRADUATE STUDENTS SHOULD REFER TO THE IPO WEBSITE FOR DETAILS ABOUT CURRICULAR PRACTICAL TRAINING (CPT). SEE DETAILS ABOUT REGISTRATION AND THE CPT APPLICATION PROCESS FOR CS MAJORS: <https://www.cics.umass.edu/careers/articles/cpt-process-internships>

CICS 580
INTRO NUMRICAL CMPTNG W/PYTHON
Ali MontazerAlghaem

UNIV LECT 01: GRADUATE STUDENTS ONLY.
UWW LECT 01: ONLINE MS-CMPSCI PROGRAM STUDENTS ONLY.

PREVIOUSLY COMPSCI 590N. ONLINE OFFERING. COURSE RUNS FOR 6 WEEKS (9/5/23-10/13/23). FAMILIARITY WITH UNDERGRADUATE-LEVEL PROBABILITY, STATISTICS, AND LINEAR ALGEBRA WILL BE ASSUMED. PHDS OR ANY STUDENT WITH A TUITION WAIVER CANNOT ENROLL IN A UWW SECTION. UNDERGRADUATES WHO HAVE COMPLETED COMPSCI 240 AND MATH 235 WITH PERMISSION OF INSTRUCTOR. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <https://www.cics.umass.edu/overrides>.

CICS 598T
P-CPT

GRADUATE CMPSCI STUDENTS ONLY.

COMPUTER SCIENCE GRADUATE STUDENTS INTERESTED IN PURSUING CPT MUST SUBMIT A HANDSHAKE APPLICATION FOUND ON THE CICS CAREERS WEB PAGE. STAFF WILL ENROLL GRADUATE STUDENTS IN FALL/SPRING IN THE UNIV SECTION AND IN WINTER/SUMMER IN THE UWW SECTION. DETAILS ABOUT REGISTRATION AND THE CPT APPLICATION PROCESS FOR CMPSCI GRADUATE STUDENTS: <https://www.cics.umass.edu/career-development/guidelines-international-students>

COMPSCI 119
INTRO PROGRAMMING
Cole Reilly

FRESHMEN, SOPHOMORES AND JUNIOR NON-CS MAJORS ONLY.

CS MAJORS ARE NOT ELIGIBLE FOR THIS COURSE. AFTER SOPHOMORES AND FRESHMEN REGISTER, 119 WILL OPEN TO JUNIORS. NON-CS JUNIORS SHOULD WAIT FOR THE ELIGIBILITY RESTRICTION TO BE REMOVED TO SELF-ENROLL OR ADD TO THE WAITLIST AND SHOULD NOT REQUEST AN OVERRIDE. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <https://www.cics.umass.edu/overrides>.

COMPSCI 198C
P-INTRO-C PROGRAMMING LANGUAGE
Meng-Chieh Chiu, J Moss, Timothy Richards

COMPSCI 121 WITH A GRADE OF B OR BETTER (OR CICS 160 PREVIOUSLY INFO 190T OR COMPSCI 186 WITH A GRADE OF C OR BETTER).

FRESHMEN, SOPHOMORE, AND JUNIOR CS MAJORS ONLY.

STARTING FALL 2023, PASSING COMPSCI 198C IS A REQUIRED PREREQUISITE FOR COMPSCI 230. INITIAL ELIGIBILITY IS LIMITED TO FRESHMEN, SOPHOMORE AND JUNIOR CS MAJORS. PROGRAM WILL CONSIDER OPENING REGISTRATION AFTER FRESHMEN HAVE ENROLLED. NON-CS MAJORS SHOULD WAIT UNTIL THE MAJOR RESTRICTION IS REMOVED AND SELF-ENROLL ON SPIRE AND SHOULD NOT REQUEST AN OVERRIDE. STUDENTS WITH AP OR TRANSFER CREDIT FOR COMPSCI 121 WILL NEED AN OVERRIDE FOR REGISTRATION, BUT NON-CS MAJORS SHOULD REFRAIN FROM REQUESTING OVERRIDE UNTIL MAJOR RESTRICTION IS REMOVED. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDE VIA THE ON-LINE FORM: <https://www.cics.umass.edu/overrides>.

COMPSCI 220
PGMG METHODOLOGY
Marius Minea

CICS 210 OR COMPSCI 187 WITH A GRADE OF C OR BETTER.

CS MAJORS ONLY.

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

COMPSCI 230
CMPTR SYS PRINC
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. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDE VIA THE ON-LINE FORM: <https://www.cics.umass.edu/overrides>.

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COMPSCI 240 RSNQ UNDER UNCERTAINTY <i>Peter Haas, STAFF</i>	CICS 160 (PREVIOUSLY INFO 190T OR COMPSCI 187) AND MATH 132, BOTH WITH A GRADE OF C OR BETTER.	CS MAJORS ONLY.	STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDE VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 250 INTRO TO COMPUTATION <i>David Barrington, Ghazaleh Parvini</i>	CICS 160 (PREVIOUSLY INFO 190T OR COMPSCI 187 OR ECE 241) AND MATH 132, BOTH WITH A GRADE OF C OR BETTER.	CS AND MATH MAJORS ONLY.	STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDE VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 311 INTRO TO ALGORITHMS <i>Ghazaleh Parvini, Daniel Sheldon</i>	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.	STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 320 INTRO TO SOFTWARE ENGINEERING <i>Gordon Anderson, Jaime Davila, Matthew Rattigan</i>	COMPSCI 220 WITH GRADE OF C OR BETTER.	JUNIOR AND SENIOR CS MAJORS ONLY.	NO OPTION FOR PASS/FAIL. SATISFIES INTEGRATIVE EXPERIENCE REQUIREMENT FOR CS MAJORS. MEETS WITH COMPSCI 429. GRADUATING SENIORS ARE PRIORITIZED AND PRE-ENROLLED BY THE PROGRAM. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 325 INTRO TO HUMAN CMPTR INTERACTN <i>Cheryl Swanier</i>	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. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDE VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 326 WEB PROGRAMMING <i>Meng-Chieh Chiu</i>	CS MAJORS: COMPSCI 220 (OR COMPSCI 230) 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.	NO OPTION FOR PASS/FAIL. SATISFIES INTEGRATIVE EXPERIENCE REQUIREMENT FOR CS AND INFORM MAJORS. GRADUATING SENIORS ARE PRIORITIZED AND PRE-ENROLLED BY THE PROGRAM. SEATS ARE SAVED FOR INFORM MAJORS. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDE VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 328 MOBILE HEALTH SENSING&ANALYTCS <i>Deepak Ganesan</i>	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. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDE VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 335 INSIDE BOX:HOW CMPTRS WORK <i>Charles Weems</i>	COMPSCI 220 (OR COMPSCI 230) WITH A GRADE OF C OR BETTER.	JUNIOR AND SENIOR CS MAJORS ONLY.	MAY OPEN TO SOPHOMORE CS MAJORS MEETING PREREQUISITE IF AVAILABLE SEATS. STUDENTS WILL NEED TO SIGN A LOAN AGREEMENT FOR A PROVIDED HARDWARE KIT. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides
COMPSCI 345 PRACT & APPLICS OF DATA MGMT <i>Gordon Anderson, Marco Serafini</i>	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.	STUDENTS ARE EXPECTED TO HAVE BASIC PROGRAMMING SKILLS, AND BE ABLE TO USE LAPTOPS IN CLASS. STUDENTS WHO HAVE TAKEN COMPSCI 445 ARE NOT ELIGIBLE. SEATS SAVED FOR INFORM MAJORS. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDE VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .

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COMPSCI 360 INTRO COMPUTER/NETWRK SECURITY <i>Christopher Misra</i>	COMPSCI 230 WITH GRADE OF C OR BETTER.	JUNIOR AND SENIOR CS MAJORS ONLY.	BEGINNING IN FALL 2022, THIS COURSE CHANGED FROM COMPSCI 460 TO COMPSCI 360. THE PREREQUISITE CHANGED TO REQUIRE COMPSCI 230. THIS AND FUTURE OFFERINGS OF COMPSCI 360 WILL CONTINUE TO COUNT AS A CS ELECTIVE FOR THE CS MAJOR, BUT AT THE 300-LEVEL. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 365 DIGITAL FORENSICS <i>Brian Levine</i>	COMPSCI 230 WITH A GRADE OF C OR BETTER.	JUNIOR AND SENIOR CS AND INFORM MAJORS ONLY.	AFTER SENIORS AND JUNIORS REGISTER, PROGRAM WILL CONSIDER OPENING TO SOPHOMORES MEETING PREREQUISITE, IF AVAILABLE SEATS. SOPHOMORE CS AND INFORM MAJORS SHOULD WAIT FOR ELIGIBILITY TO OPEN TO SELF-ENROLL OR ADD TO THE WAITLIST AND SHOULD NOT REQUEST AN OVERRIDE. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 377 OPERATING SYSTEMS <i>Peter Klemperer</i>	COMPSCI 230 WITH A GRADE OF C OR BETTER.	JUNIOR AND SENIOR CS MAJORS ONLY.	THE LECTURES FOR THIS COURSE WILL TAKE PLACE ONLINE ON TUESDAYS AND THURSDAYS, 10:00-11:15 AM LIVE, VIA ZOOM. SYNCHRONOUS ONLINE ATTENDANCE AT THE LECTURES IS REQUIRED FOR THIS COURSE. THE DISCUSSION IS IN-PERSON ON FRIDAYS, 12:20-1:10 PM. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 383 ARTIFICIAL INTELLIGENCE <i>Scott Niekum</i>	COMPSCI 220 (OR COMPSCI 230) AND COMPSCI 240 (OR STATISTC 515), BOTH WITH GRADE OF C OR BETTER.	JUNIOR AND SENIOR CS MAJORS ONLY.	STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 391L S-CMPTR CRIME LAW:INVSTG/PRVCY <i>Marvin Cable</i>	COMPSCI 230 AND ENGLWRIT 112 WITH A GRADE OF C OR BETTER (OR CW G.ED. REQUIREMENT).	JUNIOR AND SENIOR CS MAJORS ONLY.	STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 398A P-CREDITED INTERNSHIP			CICS CAREERS AND INSTRUCTOR PERMISSION REQUIRED.
COMPSCI 420 SOFTWARE ENTREPRENEURSHIP <i>Neena Thota</i>	COMPSCI 320 (OR COMPSCI 326) WITH A GRADE OF C OR BETTER.	JUNIOR AND SENIOR CS AND INFORM MAJORS ONLY.	STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 429 SOFTWARE ENGINEERING PROJ MGMT <i>Gordon Anderson, Jaime Davila, Matthew Rattigan</i>	COMPSCI 320 WITH A GRADE OF B OR BETTER.	UNDERGRADUATE CS MAJORS ONLY.	INSTRUCTOR CONSENT REQUIRED. MEETS WITH COMPSCI 320. EFFECTIVE FALL 2023, PREREQUISITE CHANGE TO A GRADE OF B OR BETTER IN COMPSCI 320. ELIGIBLE STUDENTS MAY EMAIL INSTRUCTOR FOR PERMISSION TO ENROLL. ONCE APPROVED, REFER TO INSTRUCTOR PERMISSION IN OVERRIDE REQUEST VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 446 SEARCH ENGINES <i>Ali MontazerAlghaem</i>	COMPSCI 240 OR COMPSCI 383 WITH A GRADE OF C OR BETTER.	JUNIOR AND SENIOR CS MAJORS ONLY.	INSTRUCTOR WILL CONSIDER STATISTC 515 AS AN ALTERNATE PREREQUISITE IN PLACE OF COMPSCI 240 VIA OVERRIDE. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDE VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .

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COMPSCI 453 COMPUTER NETWORKS <i>Parviz Kermani</i>	COMPSCI 230 (OR COMPSCI 377) WITH A GRADE OF C OR BETTER.	JUNIOR AND SENIOR CS MAJORS ONLY.	STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides
COMPSCI 461 SECURE DISTRIBUTED SYSTEMS <i>Gregory Stone</i>	COMPSCI 326, COMPSCI 345, COMPSCI 377, COMPSCI 453, OR COMPSCI 497P WITH A GRADE OF C OR BETTER.	CS MAJORS ONLY.	THE COURSE IS BASED ON A FLIPPED CLASSROOM AND USES A HYBRID INSTRUCTION MODEL. SOME OF THE COURSE CONTENT IS DELIVERED ONLINE, HOWEVER STUDENTS ARE REQUIRED TO ATTEND WEEKLY CLASS MEETINGS. SENIOR AND JUNIOR CSENG MAJORS WITH APPROPRIATE BACKGROUND, IF AVAILABLE SEATS. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides
COMPSCI 490A APPLICATIONS OF NLP <i>Brendan O'Connor</i>	COMPSCI 220 AND COMPSCI 240, BOTH WITH A GRADE OF C OR BETTER.	JUNIOR AND SENIOR CS MAJORS ONLY.	AN ALTERNATE PREREQUISITE OF LINGUIST 492B IS ACCEPTABLE FOR LINGUISTICS MAJORS; LINGUISTICS STUDENTS WITH PROGRAMMING AND PROBABILITY EXPERIENCE WILL LIKELY BE ADMITTED AND ENCOURAGED TO SUBMIT AN OVERRIDE. STUDENTS FROM OTHER DISCIPLINES WILL BE CONSIDERED AS WELL IF AVAILABLE SEATS. STUDENTS NEEDING INSTRUCTOR PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 490STA SCALABLE WEB SYSTEMS <i>Timothy Richards</i>	COMPSCI 320 OR COMPSCI 326 WITH A GRADE OF C OR BETTER.	JUNIOR AND SENIOR CS AND INFORM MAJORS ONLY.	PREVIOUSLY COMPSCI 497S. IT IS RECOMMENDED TO HAVE COMPLETED COMPSCI 220 (PROGRAMMING METHODOLOGY) AND COMPSCI 230 (COMPUTER SYSTEMS PRINCIPLES), OR COMPSCI 377 (OPERATING SYSTEMS), HOWEVER, THIS IS NOT REQUIRED BUT WILL MAKE YOUR EXPERIENCE MORE RICH (E.G., BACKGROUND IN WEB APP DEPLOYMENT, BASIC SECURITY, NETWORK PROTOCOLS, PROCESSES, CLIENT SERVER ARCHITECTURE, AND GENERAL OPERATING SYSTEMS CONCEPTS). 490STA-F1IP = In-Person meeting; -F1L = Synchronous (live) online meeting; -F1O = asynchronous online meeting. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 513 LOGIC IN COMPUTER SCIENCE <i>Marius Minea</i>	UNDERGRADUATES: COMPSCI 250 AND COMPSCI 311 WITH A GRADE OF C OR BETTER.	LECT 01: JUNIOR AND SENIOR CS MAJORS ONLY. LECT 02: MS-CMPSCI GRADUATE STUDENTS ONLY.	MEETS WITH COMPSCI 613. LECT 01 FOR UNDERGRADS; LECT 02 FOR GRADS. SEATS SAVED IN LECT 02 FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 514 ALGORITHMS FOR DATA SCIENCE <i>Cameron Musco</i>	UNDERGRADUATES: COMPSCI 240 (OR STATISTICS 515) AND COMPSCI 311, BOTH WITH A GRADE OF B+ OR BETTER (OR COMPSCI 240, STATISTICS 515, COMPSCI 311, MATH 233, AND MATH 235, ALL WITH A GRADE OF C OR BETTER).	UNIV LECT 01: JUNIOR AND SENIOR CS MAJORS ONLY. UNIV LECT 02: MS-CMPSCI GRADUATE STUDENTS ONLY.	LECT 01 FOR UNDERGRADS; LECT 02 FOR GRADS (MEETS IN-PERSON). SEATS HELD IN LECT 02 FOR INCOMING GRAD STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 515 ALGRTHMS,GAME THEORY, FAIRNESS <i>Yair Zick</i>	UNDERGRADUATES: COMPSCI 240 AND COMPSCI 250, BOTH WITH A GRADE OF C OR BETTER.	LECT 01: JUNIOR AND SENIOR CS MAJORS ONLY. LECT 02: MS-CMPSCI GRADUATE STUDENTS ONLY.	PREVIOUSLY COMPSCI 590T. LECT 01 FOR UNDERGRADS; LECT 02 FOR GRADS. STUDENTS SHOULD BE FAMILIAR WITH BASIC CONCEPTS OF PROBABILITY THEORY (EXPECTATION, THE LAW OF TOTAL PROBABILITY), LINEAR OPTIMIZATION (SYNTAX, WHAT IS A PRIMAL AND A DUAL), AND BASIC ALGEBRA (WHAT IS A VECTOR SPACE). SEATS HELD IN LECT 02 FOR INCOMING GRAD STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 520 THEORY AND PRACTICE-SOFTENGIN <i>Heather Conboy</i>	UNDERGRADUATES: COMPSCI 320 WITH A GRADE OF C OR BETTER.	LECT 01: JUNIOR AND SENIOR CS MAJORS ONLY. LECT 02: MS-CMPSCI GRADUATE STUDENTS ONLY.	LECT 01 FOR UNDERGRADS; LECT 02 FOR GRADS. SEATS HELD IN LECT 02 FOR INCOMING GRAD STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .

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PREREQUISITES

ELIGIBILITY RESTRICTIONS

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

<p>COMPSCI 524 HEALTH INFORMATICS/DATA SCI</p> <p><i>Sunghoon Lee</i></p>	<p>UNDERGRADUATES: COMPSCI 240 OR STATISTICS 515 WITH A GRADE OF C OR BETTER.</p>	<p>LECT 01: JUNIOR AND SENIOR CS MAJORS ONLY. LECT 02: MS-CMPSCI GRADUATE STUDENTS ONLY.</p>	<p>PREVIOUSLY COMPSCI 590W. MEETS WITH INFO 324. LECT 01 FOR UNDERGRADS; LECT 02 FOR GRADS. THIS COURSE COUNTS AS A CS ELECTIVE FOR THE CS MAJOR (BA OR BS). COMPSCI 524/590W WILL NOT COUNT TOWARD THE INFORMATICS MAJOR. INFORMATICS MAJORS SHOULD ENROLL IN INFO 324. GRADUATE STUDENTS SHOULD BE FAMILIAR WITH THE FUNDAMENTALS OF STATISTICS (EQUIVALENT TO THE MATERIALS RELATED TO COMPSCI 240 OR STATISTICS 515). KNOWLEDGE OF HEALTH DATA OR MEDICINE IS NOT A PREREQUISITE. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: http://www.cics.umass.edu/overrides</p>
<p>COMPSCI 532 SYSTEMS FOR DATA SCIENCE</p> <p><i>Peter Klemperer</i></p>	<p>UNDERGRADUATES: COMPSCI 377 AND COMPSCI 445 WITH A GRADE OF C OR BETTER.</p>	<p>UNIV LECT 01: JUNIOR AND SENIOR CS MAJORS ONLY. UNIV LECT 02: MS-CMPSCI GRADUATE STUDENTS ONLY. UWW LECT 01: ONLINE MS-CMPSCI PROGRAM STUDENTS ONLY.</p>	<p>UNIV LECT 01 FOR UNDERGRADS; UNIV LECT 02 FOR ELIGIBLE GRADS; SEATS HELD IN LECT 02 FOR INCOMING STUDENT REGISTRATION. UWW LECT 01 FOR ONLINE MS-CMPSCI PROGRAM STUDENTS ONLY. PHDS OR ANY STUDENT WITH A TUITION WAIVER CANNOT ENROLL IN A UWW SECTION. PHD OR OTHER GRADUATE LEVEL STUDENTS WHO NEED A UNIVERSITY COURSE SHOULD REGISTER IN UNIV LECT 02. STARTING IN FALL 2022, THE UNDERGRADUATE PREREQUISITE CHANGED TO COMPSCI 377 AND COMPSCI 445 WITH A C OR BETTER. COURSE IS ONLINE WITH SYNCHRONOUS LIVE LECTURES ON MW 4-5:15 PM EDT. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides.</p>
<p>COMPSCI 560 INTRO COMPUTER&NETWRK SECURITY</p> <p><i>Parviz Kermani</i></p>	<p>UNDERGRADUATES: COMPSCI 453 OR E&C-ENG 374 WITH A GRADE OF C OR BETTER.</p>	<p>UNIV LECT 01: UNDERGRADUATE CS AND CSENG STUDENTS. UNIV LECT 02: CMPSCI AND ECE GRADUATE STUDENTS ONLY. UWW LECT 01: MS-CMPSCI GRADUATE STUDENTS ONLY.</p>	<p>UNIV LECT 01 FOR UNDERGRADS; UNIV LECT 02 FOR ELIGIBLE GRADS; SEATS HELD IN LECT 02 FOR INCOMING STUDENT REGISTRATION. UWW LECT 01 FOR MS-CS STUDENTS AND OTHER GRADUATE STUDENTS EXCEPT ECE WITH INSTRUCTOR PERMISSION. PHDS OR ANY STUDENT WITH A TUITION WAIVER CANNOT ENROLL IN A UWW SECTION. NO PREREQUISITES FOR CS OR ECE GRADUATE STUDENTS; HOWEVER, ANY EDUCATION IN SECURITY REQUIRES A GOOD KNOWLEDGE OF NETWORKING. AS SUCH, KNOWLEDGE OF COMPSCI 453, COMPUTER NETWORKING, IS ESSENTIAL TO COMPLETELY BENEFIT FROM THIS COURSE. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ONLINE FORM: https://www.cics.umass.edu/overrides.</p>
<p>COMPSCI 563 INTERNET LAW AND POLICY</p> <p><i>Marvin Cable</i></p>	<p>UNDERGRADUATES: COMPSCI 311 OR COMPSCI 383 OR COMPSCI 360 (PREVIOUSLY 460) WITH C OR BETTER.</p>	<p>UNIV LECT 01: JUNIOR AND SENIOR CS MAJORS ONLY. UNIV LECT 02: CMPSCI AND ECE GRADUATE STUDENTS ONLY. UWW LECT 01: MS-CMPSCI GRADUATE STUDENTS ONLY.</p>	<p>UNIV LECT 01 FOR UNDERGRADS; UNIV LECT 02 FOR ELIGIBLE GRADS; SEATS HELD IN LECT 02 FOR INCOMING STUDENT REGISTRATION. UWW LECT 01 FOR MS-CS STUDENTS AND OTHER GRADUATE STUDENTS EXCEPT ECE WITH INSTRUCTOR PERMISSION. PHDS OR ANY STUDENT WITH A TUITION WAIVER CANNOT ENROLL IN A UWW SECTION. STUDENTS NEEDING SPECIAL PERMISSION FOR EITHER UNIVERSITY SECTION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides.</p>
<p>COMPSCI 578 DISTRIBUTED COMPUTING AND SYSTEMS</p> <p><i>Arun Venkataramani</i></p>	<p>UNDERGRADUATES: COMPSCI 377 WITH A GRADE OF C OR BETTER.</p>	<p>UNIV LECT 01: JUNIOR AND SENIOR CS MAJORS ONLY. UNIV LECT 02: MS-CMPSCI GRADUATE STUDENTS ONLY. UWW LECT 01: ONLINE MS-CMPSCI PROGRAM STUDENTS ONLY.</p>	<p>PREVIOUSLY COMPSCI 590CC. UNIV LECT 01 FOR UNDERGRADS; UNIV LECT 02 FOR ELIGIBLE GRADS; SEATS HELD IN LECT 02 FOR INCOMING STUDENT REGISTRATION. UWW LECT 01 FOR ONLINE MS-CMPSCI PROGRAM STUDENTS ONLY. PHDS OR ANY STUDENT WITH A TUITION WAIVER CANNOT ENROLL IN A UWW SECTION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides.</p>
<p>COMPSCI 589 MACHINE LEARNING</p> <p><i>Hui Guan</i></p>	<p>UNDERGRADUATES: [MATH 545 AND STATISTICS 515 AND COMPSCI 240, ALL WITH A GRADE OF C OR BETTER.] OR [MATH 545 WITH A GRADE OF C OR BETTER AND COMPSCI 240 WITH A GRADE OF B+ OR BETTER.] OR [MATH 235 AND MATH 233, BOTH WITH A GRADE OF B+ OR BETTER, AND STATISTICS 515 AND COMPSCI 240, BOTH WITH A GRADE OF C OR BETTER.] OR [MATH 235 AND MATH 233 AND COMPSCI 240, ALL WITH A GRADE OF B+ OR BETTER.]</p>	<p>UNIV LECT 01: JUNIOR AND SENIOR CS MAJORS ONLY. UNIV LECT 02: MS-CMPSCI GRADUATE STUDENTS ONLY. UWW LECT 01: ONLINE MS-CMPSCI GRADUATE STUDENTS ONLY.</p>	<p>LECT 01 FOR UNDERGRADS; LECT 02 FOR ELIGIBLE GRADS; SEATS HELD FOR INCOMING GRAD STUDENT REGISTRATION. UWW LECT 01 FOR ONLINE MS-CMPSCI PROGRAM STUDENTS ONLY. PHDS OR ANY STUDENT WITH A TUITION WAIVER CANNOT ENROLL IN A UWW SECTION. UNIV SECTIONS -01 AND -02 MEET IN PERSON ON THE AMHERST CAMPUS WITH THE INSTRUCTOR TEACHING REMOTELY FROM THE MT. IDA CAMPUS. TA'S WILL BE AVAILABLE IN THE AMHERST CLASSROOM. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides.</p>
<p>COMPSCI 596E IS-ML APPLIED TO CHILD RESCUE</p> <p><i>Benjamin Glickenhau</i></p>		<p>UNIV LECT 01: SENIOR CS MAJORS AND CS GRADUATE STUDENTS ONLY. UWW LECT 01: ONLINE MS-CMPSCI GRADUATE STUDENTS ONLY.</p>	<p>INSTRUCTOR PERMISSION REQUIRED. CS SENIOR OR CS GRADUATE STUDENT WITH A MACHINE LEARNING BACKGROUND. WE EXPECT HIGH GRADES IN COMPSCI 589 OR COMPSCI 682. PHDS OR ANY STUDENT WITH A TUITION WAIVER CANNOT ENROLL IN A UWW SECTION. SYNCHRONOUS MEETINGS ARE REQUIRED. CONTACT INSTRUCTOR FOR CONSIDERATION AT bglickenhau@umass.edu.</p>
<p>COMPSCI 611 ADVANCED ALGORITHMS</p> <p><i>Hung Le</i></p>		<p>UNIV LECT 01: CMPSCI GRADUATE STUDENTS ONLY. UWW LECT 01: ONLINE MS-CMPSCI PROGRAM STUDENTS ONLY.</p>	<p>INSTRUCTOR PERMISSION REQUIRED FOR UNDERGRADUATE CS MAJORS CLEARED BY THE UPD, IF AVAILABLE SEATS. SEATS HELD FOR INCOMING GRAD STUDENT REGISTRATION. PHDS OR ANY STUDENT WITH A TUITION WAIVER CANNOT ENROLL IN A UWW SECTION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides.</p>

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<p>COMPSCI 613 ADV LOGIC IN COMPUTER SCIENCE <i>Marius Minea</i></p>	<p>COMPSCI GRADUATE STUDENTS ONLY.</p>	<p>MEETS WITH COMPSCI 513. STUDENTS TAKING THIS COURSE SHOULD HAVE UNDERGRADUATE PREPARATION IN DISCRETE MATH AND ALGORITHMS. SEATS HELD FOR INCOMING GRAD STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides.</p>
<p>COMPSCI 635 MODERN COMPUTER ARCHITECTURE <i>Charles Weems</i></p>	<p>COMPSCI GRADUATE STUDENTS ONLY.</p>	<p>SEATS SAVED FOR INCOMING GRADUATE STUDENT REGISTRATION. COMPSCI 535 OR EQUIVALENT INTRODUCTORY COMPUTER ARCHITECTURE COURSE IS ASSUMED AS PRIOR KNOWLEDGE. CONTACT INSTRUCTOR IF UNCERTAIN. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides.</p>
<p>COMPSCI 646 INFORMATION RETRIEVAL <i>Hamed Zamani</i></p>	<p>COMPSCI GRADUATE STUDENTS ONLY.</p>	<p>INSTRUCTOR PERMISSION REQUIRED FOR SENIOR CS MAJORS WHO MEET THE PREREQUISITE OF COMPSCI 445 OR 446 WITH A GRADE OF C OR BETTER AND CLEARED BY THE UPD, IF SEATS ARE AVAILABLE. SEATS HELD FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides.</p>
<p>COMPSCI 648 QUANTUM INFORMATION SYSTEMS <i>Stefan Krastanov</i></p>	<p>COMPSCI GRADUATE STUDENTS ONLY.</p>	<p>PREVIOUSLY COMPSCI 690Q. FAMILIARITY WITH LINEAR ALGEBRA (MATH 235) AND CALCULUS (MATH 131/132). KNOWLEDGE OF SOME PROBABILITY AND DISCRETE MATH. KNOWLEDGE OF QUANTUM MECHANICS IS NOT A PREREQUISITE; QUANTUM CONCEPTS INTRODUCED AS NEEDED. KNOWLEDGE OF ALGORITHMS AND COMPLEXITY ARE NOT PREREQUISITES; ALSO INTRODUCED AS NEEDED. SEATS HELD FOR INCOMING GRAD STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides.</p>
<p>COMPSCI 655 PERFORMANCE EVALUATION <i>Donald Towsley</i></p>	<p>COMPSCI GRADUATE STUDENTS ONLY.</p>	<p>PREVIOUSLY COMPSCI 690PE. UNDERGRADUATE OR GRADUATE COURSE ON PROBABILITY THEORY ASSUMED. SEATS HELD FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides.</p>
<p>COMPSCI 660 ADV INFORMATION ASSURANCE <i>Amir Houmansadr</i></p>	<p>COMPSCI GRADUATE STUDENTS ONLY.</p>	<p>INSTRUCTOR PERMISSION REQUIRED FOR UNDERGRADUATE CS MAJORS WHO MEET THE PREREQUISITE OF COMPSCI 460 OR COMPSCI 466, OR EQUIVALENT AND CLEARED BY THE UPD, IF AVAILABLE SEATS. NON-CS STUDENTS BY PERMISSION OF INSTRUCTOR. SEATS HELD FOR INCOMING GRAD STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides.</p>
<p>COMPSCI 661 SECURE DISTRIBUTED SYSTEMS <i>Gregory Stone</i></p>	<p>UNIV LECT 01: COMPSCI AND ECE GRADUATE STUDENTS ONLY. UWW LECT 01: MS-CMPSCI GRADUATE STUDENTS ONLY.</p>	<p>UNIV LECT 01 FOR ELIGIBLE GRADS; SEATS HELD FOR INCOMING STUDENT REGISTRATION. UWW LECT 01 FOR MS-CS STUDENTS AND OTHER GRADUATE STUDENTS EXCEPT ECE WITH INSTRUCTOR PERMISSION. PHDS OR ANY STUDENT WITH A TUITION WAIVER CANNOT ENROLL IN A UWW SECTION. THE COURSE IS BASED ON A FLIPPED CLASSROOM. MUCH OF THE COURSE CONTENT IS DELIVERED ONLINE AND STUDENTS ARE EXPECTED TO VIEW OR READ THESE MATERIALS AHEAD OF CLASS MEETINGS IN PREPARATION FOR DISCUSSION. PHYSICAL ATTENDANCE IS REQUIRED FOR IN-PERSON SECTIONS. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides.</p>
<p>COMPSCI 682 NEURAL NETWORKS:MODERN INTRO <i>Chuang Gan, Subhransu Maji</i></p>	<p>UNIV LECT 01: COMPSCI GRADUATE STUDENTS ONLY. UWW LECT 01: ONLINE MS-CMPSCI GRADUATE STUDENTS ONLY.</p>	<p>UNIV LECT 01 FOR ELIGIBLE GRADS; SEATS HELD FOR INCOMING GRAD STUDENT REGISTRATION. UWW LECT 01 FOR ONLINE MS-CMPSCI PROGRAM STUDENTS ONLY. PHDS OR ANY STUDENT WITH A TUITION WAIVER CANNOT ENROLL IN A UWW SECTION. REQUIRED BACKGROUND FOR THE COURSE INCLUDES THE FOLLOWING. MULTIVARIATE CALCULUS, LINEAR ALGEBRA, AND PROBABILITY AND STATISTICS. PROGRAMMING IN PYTHON OR EQUIVALENT HIGH LEVEL LANGUAGE. UNDERGRADUATES AND STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides.</p>

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<p>COMPSCI 687 REINFORCEMENT LEARNING <i>Bruno Castro da Silva</i></p>	CMPSCI GRADUATE STUDENTS ONLY.	A STRONG MATHEMATICAL BACKGROUND IN CALCULUS, LINEAR ALGEBRA, STRATEGIES FOR PROVING THEOREMS, AND PROGRAMMING IS ASSUMED AND REQUIRED. IN ADDITION, A BACKGROUND IN MACHINE LEARNING (COMPSCI 589 AND COMPSCI 689) AND ARTIFICIAL INTELLIGENCE (COMPSCI 683) IS ASSUMED. SEATS ARE RESERVED FOR INCOMING GRAD STUDENT REGISTRATION. STUDENTS REQUIRING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ONLINE FORM: https://www.cics.umass.edu/overrides .
<p>COMPSCI 689 MACHINE LEARNING <i>Benjamin Marlin</i></p>	CMPSCI GRADUATE STUDENTS ONLY.	PERMISSION OF INSTRUCTOR FOR CS MAJORS MEETING THE PREREQUISITE OF MATH 132 AND MATH 235, AND EITHER STATISTICS 515 OR 607 OR 608, IF CLEARED BY THE UPD AND AVAILABLE SEATS. SEATS HELD FOR INCOMING GRAD STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
<p>COMPSCI 690C FOUNDATNS-APPLD CRYPTOGRAPHY <i>Adam O'Neill</i></p>	CMPSCI GRADUATE STUDENTS ONLY.	MATHEMATICAL MATURITY, BEING COMFORTABLE READING AND WRITING MATHEMATICAL PROOFS. SEATS SAVED FOR INCOMING GRAD STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
<p>COMPSCI 690F RESPONSIBLE AI <i>Przemyslaw Adam Grabowicz</i></p>	CMPSCI GRADUATE STUDENTS ONLY.	AS THE COURSE HAS INTERDISCIPLINARY PARTS, TOWARD STATISTICS AND BEHAVIORAL SCIENCES, GRADUATE STUDENTS FROM OTHER DEPARTMENTS MAY ENROLL, IF SEATS ARE AVAILABLE. FOLLOWING BACKGROUND IS ASSUMED: INTRODUCTORY MACHINE LEARNING OR DATA SCIENCE (COMPSCI 348 OR 383 OR 389 OR 589 OR EQUIVALENT), BASIC STATISTICS (COMPSCI 240 OR STAT 240 OR PSYCH 240 OR OIM 240 OR STAT 515 OR EQUIVALENT), GOOD PROGRAMMING SKILLS IN PYTHON (LIBRARIES: NUMPY, PANDAS, MATPLOTLIB, SKLEARN). STUDENTS OUTSIDE OF CS MUST REQUEST AN OVERRIDE AND DESCRIBE HOW THEY MEET PREREQUISITES UNDER ADDITIONAL INFORMATION. STUDENTS WHO ARE UNCERTAIN WHETHER THEIR BACKGROUND IS SUFFICIENT SHOULD EMAIL THE INSTRUCTOR ATTACHING THEIR ACADEMIC TRANSCRIPTS TO DETERMINE WHETHER THEY HAVE THE APPROPRIATE BACKGROUND TO BE SUCCESSFUL IN THE COURSE. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDE VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
<p>COMPSCI 691DD S-RESEARCH METHDS-EMPIRCAL CS <i>David Jensen</i></p>	CMPSCI GRADUATE STUDENTS ONLY.	SEATS SAVED FOR INCOMING GRADUATE REGISTRATION. UNDERGRADUATE CHC CS MAJORS WITH INSTRUCTOR AND HPD PERMISSION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
<p>COMPSCI 692L S-NATURAL LANGUAGE PROCESSING <i>Mohit Iyyer</i></p>	PHD CMPSCI GRADUATE STUDENTS ONLY.	INSTRUCTOR CONSENT REQUIRED. MAY BE REPEATED FOR CREDIT UP TO 3 TIMES. OPEN ONLY TO PHD STUDENTS WORKING WITH NLP FACULTY. INTERESTED LINGUISTICS PHD STUDENTS WITH PERMISSION OF INSTRUCTOR. SYNCHRONOUS MEETINGS ARE REQUIRED. CONTACT INSTRUCTOR FOR CONSIDERATION AT miiyer@cs.umass.edu .
<p>COMPSCI 698W P-CS RESRCH WRITNG PRACTICUM <i>Justin Obara</i></p>	CMPSCI PHD STUDENTS ONLY.	MAY BE REPEATED FOR CREDIT ONCE. SECT 01 (9/5-10/20/23); SECT 02 (10/23 -12/8/23). STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
<p>COMPSCI 701 ADV TOPICS IN CMPSCI</p>	DOCTORAL, MASTERS GRADUATE CMPSCI STUDENTS ONLY.	THE 3 CREDIT OPTION IS FOR THE SECOND SEMESTER OF A TWO-SEMESTER SEQUENCE, 701Y FOLLOWED BY 701. THE 6 CREDIT OPTION IS FOR A PROJECT THAT WILL BE COMPLETED OVER TWO SEMESTERS WITH ENROLLMENT IN ONLY ONE SEMESTER. REQUEST OVERRIDE VIA THE SPECIAL ON-LINE FORM: https://www.cics.umass.edu/content/registration

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

DOCTORAL, MASTERS CMPSCI GRADUATE STUDENTS ONLY.

INDICATES THE FIRST SEMESTER OF A TWO-SEMESTER SEQUENCE, 701Y (3 CREDITS) FOLLOWED BY 701 (3 CREDITS), WITH GRADE FOR BOTH ASSIGNED AT THE END. REQUEST OVERRIDE VIA THE SPECIAL ON-LINE FORM: <https://www.cics.umass.edu/content/registration>

COMPSCI 879
TEACH ASSTS-TOMORROW'S FACULTY
Neena Thota

CREDIT CHANGE FROM 1 TO 2 CREDITS, EFFECTIVE FALL 2022. COURSE IS ASSOCIATED WITH CICS TA EMPLOYMENT. REQUIRED COMPONENT OF TA CONTRACT. REGISTRATION WILL BE PROCESSED BY THE ASSISTANT DIRECTOR GRADUATE PROGRAMS AFTER SIGNED AND APPROVED CONTRACT. OPEN TO CICS TEACHING ASSISTANTS ONLY.

COMPSCI 891M
S-THEORY OF COMPUTATION
David Barrington

DOCTORAL, MASTERS GRADUATE STUDENTS ONLY.

MAY BE REPEATED FOR CREDIT UP TO 6 TIMES. OTHERS NOT MEETING ELIGIBILITY, OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <https://www.cics.umass.edu/overrides>.

COMPSCI 899
PHD DISSERTATION

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

COMPSCI H311
HNRS COLLOQ: INTRO ALGORITHMS
Ghazaleh Parvini

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/FAIL. STUDENTS MUST BE ENROLLED IN COMPSCI 311 (OR HAVE COMPLETED COMPSCI 311 WITH A GRADE OF B OR BETTER). INTERESTED STUDENTS MUST REQUEST OVERRIDE VIA ON-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/FAIL. STUDENTS MUST BE ENROLLED IN COMPSCI 335. INTERESTED STUDENTS MUST REQUEST OVERRIDE VIA ON-LINE FORM: <https://www.cics.umass.edu/overrides>.

INFO 101
INTRO TO INFORMATICS
Cheryl Swanier

UNDERGRADUATE NON-CS MAJORS ONLY.

CS MAJORS ARE NOT ELIGIBLE FOR THIS COURSE. FOUNDATIONS COURSE FOR THE INFORMATICS MAJOR. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <https://www.cics.umass.edu/overrides>.

INFO 150
MATH FOUND-INFORMATICS
Cole Reilly

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

CS AND MATH (STATISTICS) MAJORS ARE NOT ELIGIBLE FOR THIS COURSE. AFTER INFORM MAJORS REGISTER, INFO 150 WILL OPEN TO ALL NON-CS AND NON-MATH/STATS UNDERGRADUATES WHO SHOULD WAIT FOR THE ELIGIBILITY RESTRICTION TO BE REMOVED TO SELF-ENROLL OR ADD TO THE WAITLIST AND SHOULD NOT REQUEST AN OVERRIDE. R1 MATH USEFUL; NOT ABSOLUTELY REQUIRED. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <https://www.cics.umass.edu/overrides>.

INFO 203
A NETWORKED WORLD
Mohammadhassan Hajjesmaili

UNDERGRADUATE NON-CS MAJORS ONLY.

CS MAJORS ARE NOT ELIGIBLE FOR THIS COURSE. AFTER INFORM MAJORS REGISTER, INFO 203 WILL OPEN TO ALL NON-CS UNDERGRADUATES WHO SHOULD WAIT FOR THE ELIGIBILITY RESTRICTION TO BE REMOVED TO SELF-ENROLL OR ADD TO THE WAITLIST AND SHOULD NOT REQUEST AN OVERRIDE. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <https://www.cics.umass.edu/overrides>.

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	<u>PREREQUISITES</u>	<u>ELIGIBILITY RESTRICTIONS</u>	<u>CLASS NOTES/COMMENTS</u> <small>INFORMATION ONLY - DOES NOT AFFECT SPIRE ENROLLMENT.</small>
<p>INFO 324 INTRO CLINICAL HLTH INFORMTCS <i>Sunghoon Lee</i></p>	<p>INFO 248 (OR STATISTICS 515 OR COMPSCI 240) WITH A GRADE OF C OR BETTER.</p>	<p>INFORM MAJORS ONLY.</p>	<p>PREVIOUSLY INFO 390W. MEETS WITH COMPSCI 524. THIS COURSE IS A CORE IN THE INFORMATICS HEALTH AND LIFE SCIENCES (HLS) CONCENTRATION. KNOWLEDGE OF HEALTH DATA OR MEDICINE IS NOT A PREREQUISITE; THIS COURSE IS DESIGNED TO INTRODUCE THE CONCEPTS OF HEALTH AND MEDICAL DATA. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: http://www.cics.umass.edu/overrides.</p>
<p>INFO 348 DATA ANALYTICS WITH PYTHON <i>Matthew Rattigan</i></p>	<p>INFO 248 AND CICS 160 (OR INFO 190T OR COMPSCI 186 OR COMPSCI 187), BOTH WITH A GRADE OF C OR BETTER.</p>	<p>UNDERGRADUATE STUDENTS ONLY.</p>	<p>PREVIOUSLY CICS 397A. LINEAR ALGEBRA (MATH 235) IS HELPFUL BUT NOT REQUIRED. STUDENTS WITH ALTERNATE PROGRAMMING OR STATISTICS BACKGROUND MAY REQUEST OVERRIDE FOR CONSIDERATION. A PREREQUISITE CHANGE HAS BEEN APPROVED BY THE FACULTY SENATE TO REPLACE CICS 210 WITH CICS 160. AFTER INFORM MAJORS REGISTER, INFO 348 WILL OPEN TO ALL UNDERGRADUATES. STUDENTS MEETING PREREQUISITE SHOULD WAIT FOR THE ELIGIBILITY RESTRICTION TO BE REMOVED TO SELF-ENROLL OR ADD TO THE WAITLIST AND SHOULD NOT REQUEST AN OVERRIDE. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides.</p>