

SPIRE REGISTRATION INFORMATION for 2018 Spring

	<u>PREREQUISITES</u>	<u>ELIGIBILITY RESTRICTIONS</u>	<u>CLASS NOTES/COMMENTS</u> <small>INFORMATION ONLY - DOES NOT AFFECT SPIRE ENROLLMENT.</small>
CICS 290M MAKE: PHYSICAL COMPUTING <i>Rui Wang</i>	COMPSCI 187 WITH A GRADE OF 'C' OR BETTER AND BASIC MATH SKILLS(R1).	FRESHMAN AND SOPHOMORE BS-CS MAJORS ONLY.	THIS COURSE HAS A REQUIRED LAB SECTION AND COUNTS TOWARDS THE CS LAB SCIENCE REQUIREMENT FOR THE BS-CS. THIS OFFERING IS OPEN TO SOPHOMORE AND FRESHMAN BS-CS MAJORS ONLY WHO HAVE NOT SATISFIED THE CS LAB SCIENCE REQUIREMENT. JUNIORS MAY BE CONSIDERED IF AVAILABLE SEATS. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
CICS 597C ST-INTRO TO COMPUTER SECURITY <i>Parviz Kermani</i>		LECT 01: INSTRUCTOR CONSENT. LECT 02: GRADUATE AND NON-DEGREE GRADUATE STUDENTS ONLY.	CPE REGISTRATION: www.umasslearn.net
COMPSCI 105 COMPUTER LITERACY <i>William Verts</i>		UNDERGRADUATE NON-CS MAJORS ONLY.	CS MAJORS ARE NOT ELIGIBLE FOR THIS COURSE. ALL STUDENTS MUST HAVE ACCESS TO A COMPUTER FOR PERFORMING ASSIGNMENTS. COMPUTER MUST RUN WINDOWS 7, 8, OR 10, OR MAC OS/X 10.6 AND LATER, WITH A RECENT VERSION OF MICROSOFT OFFICE (NOTHING EARLIER THAN MICROSOFT OFFICE 2010 FOR WINDOWS OR MICROSOFT OFFICE 2011 FOR MAC). NOT ALL ASSIGNMENTS CAN BE PERFORMED ON A MAC, BUT STUDENTS WITHOUT WINDOWS (OR WITHOUT A COMPUTER) MAY USE CAMPUS WINDOWS PC LABS. PLEASE CHECK 105 WEBSITE. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 119 INTRO PROGRAMMING <i>William Verts</i>		UNDERGRADUATE NON-CS MAJORS ONLY.	CS MAJORS ARE NOT ELIGIBLE FOR THIS COURSE. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 121 PROBLEM SOLVING W/COMPUTERS <i>Gordon Anderson, Neena Thota</i>	COMPLETION OF THE R1 GEN ED (OR A SCORE OF 20 OR HIGHER ON THE MATH PLACEMENT TEST PART A), OR ONE OF THE FOLLOWING COURSES: MATH 101&102 OR MATH 104 OR MATH 127 OR MATH 128 OR MATH 131 OR MATH 132.	UNDERGRADUATE STUDENTS ONLY.	INTENDED FOR COMPSCI MAJORS OR THOSE APPLYING TO THE MAJOR. NON-MAJORS SHOULD TAKE COMPSCI 119 OR COMPSCI 190F. ATTENDANCE IN LECT AND LAB IS MANDATORY. ICLICKER IS REQUIRED. FOR QUESTIONS ABOUT 121 COURSE ADMINISTRATION, CONTACT CS121admin@cs.umass.edu. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 145 REP,STORNG&RET INFO <i>William Verts</i>	R1.	UNDERGRADUATE NON-CS MAJORS ONLY.	CS MAJORS ARE NOT ELIGIBLE FOR THIS COURSE. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 186 USING DATA STRUCTURES <i>Neena Thota, David Wemhoener</i>	COMPSCI 121 WITH A GRADE OF C OR BETTER AND BASIC MATH SKILLS (R1).	UNDERGRADUATES ONLY.	STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 187 PROGRAMMING W/DATA STRCTRS <i>Mark Corner</i>	COMPSCI 121 WITH A GRADE OF B OR BETTER (OR COMPSCI 186 (OR COMPSCI 190D) WITH A GRADE OF C OR BETTER).	UNDERGRADUATE CS MAJORS ONLY.	THE PREREQUISITE FOR COMPSCI 187 REQUIRES A GRADE OF B OR BETTER IN 121 (OR C OR BETTER IN COMPSCI 186(WAS COMPSCI 190D). ATTEND LAB EVEN IF BEFORE FIRST CLASS MEETING. CS MINORS, APPLICANTS-ON-CONTRACT, AND OTHERS NOT MEETING ELIGIBILITY, OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 197C ST-PGMG IN C <i>John Foley</i>	COMPSCI 186 OR 187 (OR E&C-ENG 242) WITH A GRADE OF C OR BETTER.	FRESHMEN AND SOPHOMORE CS MAJORS ONLY.	<i>STUDENTS WHO HAVE TAKEN COMPSCI 230 ARE NOT ELIGIBLE FOR THIS COURSE. COURSE RUNS FOR 6 WEEKS (9/12, 9/19, 9/26, 10/3, 10/10, and 10/17). CS MINORS AND APPLICANTS-ON-CONTRACT NOT MEETING ELIGIBILITY, OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides. STUDENTS ARE ENCOURAGED TO BRING A LAPTOP. WINDOWS USERS SHOULD DOWNLOAD PUTTY HERE: http://www.chiark.greenend.org/~sgtatham/putty/download.html.</i>
COMPSCI 197S ST-BASICS OF CYBERSECURITY <i>Shruti Jadon</i>		FRESHMEN AND SOPHOMORES ONLY.	COURSE RUNS FOR 6 WEEKS (3/19/18-4/25/18: 3/19, 3/21, 3/26, 3/28, 4/2, 4/4, 4/9, 4/11, 4/16-NO CLASS, 4/17, 4/18, 4/23, 4/25). STUDENTS WHO HAVE TAKEN COMPSCI 460 ARE NOT ELIGIBLE FOR THIS COURSE. REGISTRATION ONLY BEFORE ADD/DROP ENDS, THROUGH 2/5. INSTRUCTOR CONSENT REQUIRED TO WITHDRAW. CS MINORS AND APPLICANTS-ON-CONTRACT NOT MEETING ELIGIBILITY, OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .

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COMPSCI 197U ST-A HANDS-ON INTRO TO UNIX <i>John Foley</i>		FRESHMEN AND SOPHOMORE UNDERGRADUATES ONLY.	COURSE RUNS FOR 6 WEEKS (1/29/18-3/19/18: 1/29, 1/31, 2/5, 2/7, 2/12, 2/14, 2/19-NO CLASS, 2/21, 2/26, 3/28, 3/5, 3/7, 3/12-NO CLASS, 3/14-NO CLASS, 3/19). ADD/DROP THROUGH 2/5. INSTRUCTOR CONSENT REQUIRED TO WITHDRAW 2/6-2/9 ONLY. CS MINORS AND APPLICANTS-ON-CONTRACT NOT MEETING ELIGIBILITY, OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 198J P-HIGH SCHOOL TEACHING PRACTICUM <i>Emery Berger</i>	COMPSCI 121 AND COMPSCI 187 BOTH WITH A GRADE OF A- OR BETTER.	UNDERGRADUATES ONLY.	INSTRUCTOR CONSENT REQUIRED. MAY BE REPEATED FOR CREDIT.
COMPSCI 220 PGMG METHODOLOGY <i>Arjun Guha</i>	COMPSCI 187 (OR E&C-ENG 242) WITH A GRADE OF 'C' OR BETTER.	CS MAJORS ONLY.	STUDENTS ARE STRONGLY ADVISED NOT TO TAKE 220/230 IN THE SAME SEMESTER. DUE TO ENROLLMENT PRESSURE, THE UPC RESERVES THE RIGHT TO DROP STUDENTS ENROLLED IN BOTH FROM EITHER COURSE WHEN NECESSARY. CS MINORS, APPLICANTS-ON-CONTRACT, AND OTHERS NOT MEETING ELIGIBILITY, OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 230 CMPTR SYS PRINC <i>Timothy Richards</i>	COMPSCI 187 (OR E&C-ENG 242) WITH A GRADE OF 'C' OR BETTER.	CS MAJORS ONLY.	STUDENTS ARE STRONGLY ADVISED NOT TO TAKE 220/230 IN THE SAME SEMESTER. DUE TO ENROLLMENT PRESSURE, THE UPC RESERVES THE RIGHT TO DROP STUDENTS ENROLLED IN BOTH FROM EITHER COURSE WHEN NECESSARY. CS MINORS, APPLICANTS-ON-CONTRACT, AND OTHERS NOT MEETING ELIGIBILITY, OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 240 RSNG UNDER UNCERTAINTY <i>Emma Tosch, Luis Pineda</i>	COMPSCI 187 (OR E&C-ENG 242) AND MATH 132 WITH A GRADE OF 'C' OR BETTER.	CS MAJORS ONLY.	STUDENTS ARE ADVISED NOT TO TAKE 240/250 IN THE SAME SEMESTER. DUE TO ENROLLMENT PRESSURE, THE UPC RESERVES THE RIGHT TO DROP STUDENTS ENROLLED IN BOTH FROM EITHER COURSE WHEN NECESSARY. CS MINORS, APPLICANTS-ON-CONTRACT, AND OTHERS NOT MEETING ELIGIBILITY, OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 250 INTRO TO COMPUTATION <i>David Barrington</i>	MATH 132 AND COMPSCI 187 (OR E&C-ENG 242) WITH GRADE OF 'C' OR BETTER.	CS AND MATH MAJORS ONLY.	STUDENTS ARE ADVISED NOT TO TAKE 240/250 IN THE SAME SEMESTER. DUE TO ENROLLMENT PRESSURE, THE UPC RESERVES THE RIGHT TO DROP STUDENTS ENROLLED IN BOTH FROM EITHER COURSE WHEN NECESSARY. CS MINORS, APPLICANTS-ON-CONTRACT, AND OTHERS NOT MEETING ELIGIBILITY, OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 305 SOC ISS IN CMPTNG <i>Michelle Trim, Anna Napoleone</i>	ENGLWRIT 112 (OR ENGLWRIT 000 WAIVER) AND COMPSCI 220 (OR COMPSCI 230) AND COMPSCI 240 (OR COMPSCI 250), ALL WITH A GRADE OF C OR BETTER.	JUNIOR AND SENIOR CS MAJORS ONLY.	SATISFIES JUNIOR YEAR WRITING REQUIREMENT. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 311 INTRO TO ALGORITHMS <i>Akshay Krishnamurthy</i>	COMPSCI 187 AND COMPSCI 250 (OR MATH 455) WITH A GRADE OF C OR BETTER.	CS MAJORS ONLY.	CS MINORS, APPLICANTS-ON-CONTRACT, AND OTHERS NOT MEETING ELIGIBILITY, OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 320 INTRO TO SOFTWARE ENGINEERING <i>Gordon Anderson, Neena Thota</i>	COMPSCI 220 WITH GRADE OF C OR BETTER.	JUNIOR AND SENIOR CS MAJORS ONLY.	SATISFIES INTEGRATIVE EXPERIENCE REQUIREMENT FOR CS MAJORS. CSENG MAJORS WILL BE ADMITTED ONLY IF SPACE ALLOWS. MEETS WITH COMPSCI 529. AN OPTIONAL HONORS COLLOQUIUM IS AVAILABLE FOR THIS COURSE. CS MINORS, APPLICANTS-ON-CONTRACT, AND OTHERS NOT MEETING ELIGIBILITY, OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 326 WEB PROGRAMMING <i>Timothy Richards</i>	COMPSCI 220 (OR COMPSCI 230) WITH A GRADE OF C OR BETTER.	JUNIOR AND SENIOR CS MAJORS ONLY.	SATISFIES INTEGRATIVE EXPERIENCE REQUIREMENT FOR CS MAJORS. INFORMATICS STUDENTS NOT MEETING PREREQUISITE WHO HAVE SUCCESSFULLY COMPLETED COMPSCI 187 MAY BE ALLOWED WITH PERMISSION OF INSTRUCTOR IF AVAILABLE SEATS. CS MINORS, APPLICANTS-ON-CONTRACT, AND OTHERS NOT MEETING ELIGIBILITY, OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .

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COMPSCI 345 PRACT & APPLICS OF DATA MGMT <i>David Wemhoener</i>	COMPSCI 187 (OR E&C-ENG 242) WITH A GRADE OF 'C' OR BETTER.	CS 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. INFORMATICS (BDIC) MAJORS SHOULD REQUEST AN OVERRIDE IF UNABLE TO ENROLL ON SPIRE. OTHER NON-CS MAJORS WHO MEET PREREQUISITE WILL BE CONSIDERED WITH INSTRUCTOR PERMISSION IF AVAILABLE SEATS. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 365 DIGITAL FORENSICS <i>Marc Liberatore</i>	COMPSCI 220 (OR COMPSCI 230) WITH A GRADE OF C OR BETTER.	CS MAJORS ONLY.	MEETS WITH COMPSCI 590F. CS MINORS, APPLICANTS-ON-CONTRACT, AND OTHERS NOT MEETING ELIGIBILITY, OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 370 INTRO TO COMPUTER VISION <i>Subhransu Maji</i>	COMPSCI 240 OR COMPSCI 383 WITH A GRADE OF 'C' OR BETTER.	CS MAJORS ONLY.	A BACKGROUND IN LINEAR ALGEBRA IS RECOMMENDED. CS MINORS, APPLICANTS-ON-CONTRACT, AND OTHERS NOT MEETING ELIGIBILITY, OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 373 INTRO TO COMPUTER GRAPHICS <i>Evangelos Kalogerakis</i>	COMPSCI 187 (OR E&C-ENG 242) AND INFO 150 (OR COMPSCI 190DM OR MATH 235 OR COMPSCI 240) BOTH WITH A GRADE OF 'C' OR BETTER.	CS MAJORS ONLY.	MEETS WITH COMPSCI 497C. STUDENTS WHO HAVE TAKEN COMPSCI 473 ARE NOT ELIGIBLE. STUDENTS WHO HAVE TAKEN 373 CANNOT TAKE COMPSCI 497C SPECIAL TOPICS IN COMPUTER GRAPHICS. RESERVES FOR INFORMATICS STUDENTS. CS MINORS, APPLICANTS-ON-CONTRACT, INFORMATICS MAJORS (BDIC) AND OTHERS NOT MEETING ELIGIBILITY, OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 377 OPERATING SYSTEMS <i>Ahmed Aleyeldin Hassan</i>	COMPSCI 230 WITH A GRADE OF 'C' OR BETTER.	CS MAJORS ONLY.	DISCUSSION MEETS AFTER FIRST LECTURE. CS MINORS, APPLICANTS-ON-CONTRACT, AND OTHERS NOT MEETING ELIGIBILITY, OR STUDENTS NEEDING SPECIAL PERMISSION (INSTRUCTOR PERMISSION IF NOT MEETING PREREQUISITE) MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 383 ARTIFICIAL INTELLIGENCE <i>Philip Thomas</i>	COMPSCI 220 (OR COMPSCI 230) AND COMPSCI 240, BOTH WITH GRADE OF 'C' OR BETTER.	JUNIOR AND SENIOR CS MAJORS ONLY.	CS MINORS, APPLICANTS-ON-CONTRACT, AND OTHERS NOT MEETING ELIGIBILITY, OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 390N INTERNET OF THINGS <i>Sunghoon Lee</i>	COMPSCI 187 (OR E&C-ENG 242) WITH A GRADE OF C OR BETTER.	CS MAJORS ONLY.	CS MINORS, APPLICANTS-ON-CONTRACT, AND OTHERS NOT MEETING ELIGIBILITY, OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 403 INTRO ROBTCS:PRCP,MECH,DYN, CTRL <i>Joydeep Biswas</i>	MATH 235 (OR MATH 236) AND COMPSCI 220 (OR COMPSCI 230) WITH GRADE OF C OR BETTER.	UNDERGRADUATES ONLY.	AN HONORS COLLOQUIUM IS AVAILABLE FOR THIS COURSE. UNDERGRADUATE PROGRAMMING CLASS, C OR C++ EXPERIENCE. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 445 INFORMATION SYSTEMS <i>Gerome Miklau</i>	COMPSCI 220 (OR COMPSCI 230) AND COMPSCI 311 AND COMPSCI 345, ALL WITH GRADE OF 'C' OR BETTER.	CS MAJORS ONLY.	IF AVAILABLE SEATS, STUDENTS WHO ARE NOT CS MAJORS BUT HAVE SUFFICIENT PROGRAMMING EXPERIENCE, CS GRADUATE STUDENTS, OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 446 SEARCH ENGINES <i>David Fisher</i>	COMPSCI 240 OR COMPSCI 383 WITH A GRADE OF 'C' OR BETTER.	CS MAJORS ONLY.	CS MINORS, APPLICANTS-ON-CONTRACT, AND OTHERS NOT MEETING ELIGIBILITY, OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .

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COMPSCI 453 COMPUTER NETWORKS <i>Parviz Kermani</i>	COMPSCI 230 (OR COMPSCI 377) WITH A GRADE OF 'C' OR BETTER.	SENIOR AND JUNIOR CS MAJORS ONLY.	STUDENTS WHO ARE NOT CS MAJORS BUT HAVE SUFFICIENT PROGRAMMING EXPERIENCE, CS GRADUATE STUDENTS, OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 490P SECURE DISTRIBUTED SYSTEMS <i>Brian Levine</i>	COMPSCI 326, COMPSCI 345, COMPSCI 377, COMPSCI 453, COMPSCI 460, COMPSCI 497P, OR COMPSCI 590CC WITH A GRADE OF 'C' OR BETTER.	JUNIOR AND SENIOR CS OR CSENG MAJORS ONLY.	STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides
COMPSCI 491G S-COMPUTER NETWORKING LAB <i>Parviz Kermani</i>	COMPSCI 453 WITH A GRADE OF C OR BETTER.	UNDERGRADUATE STUDENTS ONLY.	CLASS MEETS IN LGRC A310 ONLY FOR INITIAL CLASS ORIENTATION. FUTURE CLASS MEETINGS WILL BE BY ARRANGEMENT WITH INSTRUCTOR. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 497C ST- IN COMPUTER GRAPHICS <i>Evangelos Kalogerakis</i>	COMPSCI 187(OR E&C-ENG 242) AND INFO 150 (OR MATH 235 OR COMPSCI 240) WITH A GRADE OF B+ OR BETTER.	CS MAJORS ONLY.	MEETS WITH COMPSCI 373. STUDENTS NOT MEETING SPECIFIC PREREQUISITE OF COMPSCI 240 WHO HAVE RELEVANT COURSEWORK MAY BE CONSIDERED WITH INSTRUCTOR PERMISSION IF AVAILABLE SEATS. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 501 FORMAL LANGUAGE THEORY <i>Neil Immerman</i>	UNDERGRADUATES: COMPSCI 311 WITH A GRADE OF 'C' OR BETTER.	LECT 01: CS MAJORS ONLY. LECT 02: MS-CMPSCI STUDENTS ONLY.	LECT 01 FOR UNDERGRADS; LECT 02 FOR GRADS. IT IS RECOMMENDED THAT UNDERGRADUATE STUDENTS HAVE A B- OR BETTER IN COMPSCI 311 IN ORDER TO ATTEMPT 501. SEATS HELD FOR INCOMING GRAD STUDENT REGISTRATION. CS MINORS, APPLICANTS-ON-CONTRACT, AND OTHERS NOT MEETING ELIGIBILITY, OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 514 ALGORITHMS FOR DATA SCIENCE <i>Barna Saha</i>	UNDERGRADUATES: COMPSCI 240 AND COMPSCI 311 WITH A GRADE OF B+ OR BETTER.	LECT 01: CS MAJORS ONLY. LECT 02: MS-CMPSCI STUDENTS ONLY.	LECT 01 FOR UNDERGRADS; LECT 02 FOR GRADS. SEATS HELD IN LECT 02 FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 529 SOFTWARE ENGINEERING PROJ MGMT <i>Gordon Anderson, Neena Thota</i>	COMPSCI 320 WITH A GRADE OF A- OR BETTER.		PERMISSION OF INSTRUCTOR REQUIRED. MEETS WITH COMPSCI 320. STUDENTS NEEDING INSTRUCTOR PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 535 COMPUTER ARCHITECTURE <i>Charles Weems</i>	UNDERGRADUATES: COMPSCI 335 WITH A GRADE OF 'C' OR BETTER.	LECT 01: JUNIOR AND SENIOR CS MAJORS ONLY. LECT 02: MS-CMPSCI STUDENTS ONLY.	LECT 01 FOR UNDERGRADS; LECT 02 FOR GRADS. CS MINORS, APPLICANTS-ON-CONTRACT, AND OTHERS NOT MEETING ELIGIBILITY, OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 589 MACHINE LEARNING <i>David Jensen</i>	UNDERGRADUATES: COMPSCI 383 AND MATH 235 WITH A GRADE OF C OR BETTER.	LECT 01: CS MAJORS ONLY. LECT 02: MS-CMPSCI STUDENTS ONLY.	LECT 01 FOR UNDERGRADS; LECT 02 FOR GRADS. STUDENTS MAY REQUEST TO TAKE MATH 235 LINEAR ALGEBRA AS A CO-REQUISITE WITH INSTRUCTOR PERMISSION. SEATS HELD IN LECT 02 FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 590B DETECTING INTRFRNCE-NTWRKS <i>Phillipa Gill</i>	UNDERGRADUATES: COMPSCI 453 WITH A C OR BETTER.	LECT 01: CS MAJORS ONLY. LECT 02: MS-CMPSCI STUDENTS ONLY.	LECT 01 FOR UNDERGRADS; LECT 02 FOR GRADS. MEETS WITH COMPSCI 690B. SEATS HELD IN LECT 02 FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .

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COMPSCI 590C HUMAN COMPUTER INTERACTION <i>Eva Hudlicka</i>	COMPSCI 187 (OR E&C-ENG 242) AND COMPSCI 220 (OR COMPSCI 230) WITH A 'C' OR BETTER.	LECT 01: JR AND SR CS MAJORS ONLY. LECT 02: MS-CMPSCI STUDENTS ONLY.	LECT 01 FOR UNDERGRADS; LECT 02 FOR GRADS. FAMILIARITY WITH AI AND HCI DESIRABLE BUT NOT NECESSARY. NON-CS MAJORS WITH PERMISSION OF INSTRUCTOR. IN ADDITION TO REQUESTING AN OVERRIDE, FIVE COLLEGE STUDENTS WISHING TO ENROLL MUST FIRST SUBMIT A BRIEF STATEMENT OF INTEREST TO THE INSTRUCTOR, AND A BRIEF LETTER OF RECOMMENDATION FROM THEIR ADVISOR. THIS LETTER MUST INCLUDE THE STUDENT'S CURRENT GPA. STUDENTS NEEDING INSTRUCTOR PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 590F DIGITAL FORENSICS <i>Marc Liberatore</i>		MS-CMPSCI STUDENTS ONLY.	STUDENTS WHO HAVE TAKEN COMPSCI 365 AS AN UNDERGRADUATE ARE NOT ELIGIBLE FOR THIS COURSE. GRADUATE STUDENTS WILL BE EXPECTED TO READ SELECTED CURRENT TECHNICAL AND LAW ARTICLES AND TO IMPLEMENT AND ANALYZE STATE-OF-THE-ART SYSTEMS. PERMISSION OF INSTRUCTOR FOR UNDERGRADUATES WITH COMPSCI 220 OR 230 WITH A GRADE OF C OR BETTER, IF AVAILABLE SEATS. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 590IV INTELLIGENT VISUAL COMPUTING <i>Evangelos Kalogerakis</i>	UNDERGRADUATES: COMPSCI 311, COMPSCI 383, COMPSCI 373 (OR COMPSCI 473), ALL WITH A GRADE OF B OR BETTER.	LECT 01: CS MAJORS ONLY. LECT 02: MS-CMPSCI STUDENTS ONLY.	LECT 01 FOR UNDERGRADS (INSTRUCTOR CONSENT REQUIRED); 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 590M INTRODUCTION TO SIMULATION <i>Peter Haas</i>	UNDERGRADUATES: COMPSCI 187 AND STATISTC 515 WITH A GRADE OF C OR BETTER.	LECT 01: JR AND SR CS MAJORS ONLY. LECT 02: MS-CMPSCI GRAD STUDENTS ONLY.	LECT 01 FOR UNDERGRADS; LECT 02 FOR GRADS. SEATS SAVED FOR INCOMING GRAD STUDENTS. SOME BACKGROUND IN STOCHASTIC PROCESSES IS HELPFUL, BUT NOT REQUIRED, AS THE MATERIAL WILL BE DEVELOPED IN CLASS. INSTRUCTOR PERMISSION REQUIRED FOR UNDERGRADUATE IE MAJORS MEETING PREREQUISITES AND GRADUATE IE STUDENTS. STUDENTS NEEDING INSTRUCTOR PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 590U MOBILE AND UBIQ COMPUTING <i>Tauhidur Rahman</i>	UNDERGRADUATES: BOTH COMPSCI 230 AND COMPSCI 240 WITH A GRADE OF C OR BETTER.	LECT 01: JUNIOR AND SENIOR CS MAJORS. LECT 02: MS-CMPSCI AND ECE GRAD STUDENTS ONLY.	LECT 01 FOR UNDERGRADS; LECT 02 FOR GRADS. SOME BACKGROUND IN MACHINE LEARNING, SIGNAL PROCESSING, EMBEDDED SYSTEMS, PHYSICAL COMPUTING IS HELPFUL. INSTRUCTOR PERMISSION FOR STUDENTS WITH ALTERNATE PREREQUISITES. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ONLINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 590V DATA VISUALIZATION&EXPLORATION <i>John Fallon</i>	UNDERGRADUATES: COMPSCI 220 (OR COMPSCI 230), WITH A GRADE OF B OR BETTER.	LECT 01: JR AND SR CS MAJORS ONLY. LECT 02: MS-CMPSCI STUDENTS ONLY.	LECT 01 FOR UNDERGRADS; LECT 02 FOR GRADS. SEATS HELD FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 603 ROBOTICS <i>Roderic Grupen</i>		CMPSCI GRADUATE STUDENTS ONLY.	A BACKGROUND IN LINEAR ALGEBRA, DIFFERENTIAL EQUATIONS, AND PROGRAMMING SKILLS ARE ASSUMED. UNDERGRADUATES WITH PERMISSION OF INSTRUCTOR. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 611 ADVANCED ALGORITHMS <i>Ramesh Sitaraman</i>		CMPSCI GRADUATE STUDENTS ONLY.	INSTRUCTOR PERMISSION REQUIRED FOR UNDERGRADUATE CS MAJORS CLEARED BY THE UPD, IF AVAILABLE SEATS. SEATS HELD FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 621 ADV SOFTENG:ANALYSIS & EVAL <i>Yuriy Brun</i>		CMPSCI GRADUATE STUDENTS ONLY.	SEATS HELD FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 630 SYSTEMS <i>Emery Berger</i>		CMPSCI GRADUATE STUDENTS ONLY.	SENIOR CS MAJORS WITH PERMISSION OF INSTRUCTOR; BACKGROUND IN UNDERGRAD OS IS HELPFUL. SEATS HELD FOR INCOMING 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 <small>INFORMATION ONLY - DOES NOT AFFECT SPIRE ENROLLMENT.</small>
COMPSCI 645 DB DSGN & IMPLMNTN <i>Alexandra Meliou, Yanlei Diao</i>	CMPSCI GRADUATE STUDENTS ONLY.	STUDENTS SHOULD HAVE TAKEN AN UNDERGRADUATE LEVEL COURSE ON OPERATING SYSTEMS OR DATABASES. SEATS HELD FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 650 APPLIED INFO THEORY <i>Arya Mazumdar</i>	CMPSCI GRADUATE STUDENTS ONLY.	UNDERGRADUATES WITH PERMISSION OF INSTRUCTOR. PREREQUISITE: ANY COURSE IN PROBABILITY AND STATISTICS. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 660 ADV INFORMATION ASSURANCE <i>Amir Houmansadr</i>	CMPSCI GRADUATE STUDENTS ONLY.	PREREQUISITE OF COMPSCI 460 OR COMPSCI 466, OR EQUIVALENT. UNDERGRADUATE CS MAJORS AND NON-CS STUDENTS BY PERMISSION OF INSTRUCTOR. SEATS HELD FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 677 DISTRIBUTED AND OPERATING SYS <i>Prashant Shenoy</i>	LECT 01: CMPSCI GRADUATE STUDENTS ONLY. LECT 02: GRADUATE STUDENTS ONLY.	LECT 02 IS ON-LINE. SENIOR CS MAJORS WITH PERMISSION OF INSTRUCTOR; BACKGROUND IN UNDERGRAD OS IS HELPFUL. SEATS HELD FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 682 NEURAL NETWORKS:MODERN INTRO <i>Erik Learned-Miller</i>	CMPSCI GRADUATE STUDENTS ONLY.	PREREQUISITES: BASIC FAMILIARITY WITH AI/COGNITIVE SCIENCE/MACHINE LEARNING. BASIC KNOWLEDGE OF GRADIENT-BASED OPTIMIZATION. CALCULUS, LINEAR ALGEBRA, ALGORITHMIC ANALYSIS, PROBABILITY;STATISTICS, PROGRAMMING IN PYTHON OR EQUIVALENT HIGH LEVEL LANGUAGE. SEATS HELD FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 683 ARTIFICIAL INTELLIGENCE <i>Shlomo Zilberstein</i>	CMPSCI GRADUATE STUDENTS ONLY.	STUDENTS WHO HAVE TAKEN AN UNDERGRADUATE AI COURSE PREFERRED. SEATS HELD FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 688 PROBABILISTIC GRAPHICAL MODELS <i>Benjamin Marlin</i>	CMPSCI GRADUATE STUDENTS ONLY.	SEATS HELD FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 690B DETECTING INTRFRNCE-NTWRKS <i>Phillipa Gill</i>	CMPSCI GRADUATE STUDENTS ONLY.	MEETS WITH COMPSCI 590B. SEATS HELD FOR INCOMING STUDENT REGISTRATION. STUDENTS TAKING THIS COURSE SHOULD HAVE UNDERGRADUATE PREPARATION IN COMPUTER NETWORKS (COMPSCI 453). STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 690IV INTELLIGENT VISUAL COMPUTING <i>Evangelos Kalogerakis</i>	CMPSCI GRADUATE STUDENTS ONLY.	CMPSCI GRADUATES AND OTHERS ARE ASSUMED TO HAVE SUCCESSFULLY COMPLETED PREREQS OR EQUIV: COMPSCI 311, 383, AND 373 (OR 473), ALL WITH A GRADE OF A- OR BETTER. SEATS HELD FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 690N ADV NATURAL LANG PROCESSING <i>Brendan O'Connor</i>	CMPSCI GRADUATE STUDENTS ONLY.	PHD-LING STUDENTS WITH PERMISSION OF INSTRUCTOR. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA ON-LINE FORM: https://www.cics.umass.edu/overrides .

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COMPSCI 690P SECURE DISTRIBUTED SYSTEMS <i>Brian Levine</i>		COMPSCI AND ECE GRADUATE STUDENTS ONLY.	STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides
COMPSCI 692N S- NVL COMPUTATIONAL HRDWR & ML <i>Edward Rietman</i>		COMPSCI GRADUATE STUDENTS ONLY.	A BACKGROUND IN LINEAR ALGEBRA, CALCULUS, AND STATISTICS IS ASSUMED. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://cics.umass.edu/overrides
COMPSCI 692P S-PLASMA <i>Emery Berger, Yuriy Brun, Arjun Guha</i>		COMPSCI GRADUATE STUDENTS ONLY	SECTION 01 = 3 CREDITS, SECTION 02 = 1 CREDIT. CS UNDERGRADUATES WITH PERMISSION OF INSTRUCTOR. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides
COMPSCI 701 ADV TOPICS IN COMPSCI		DOCTORAL, MASTERS COMPSCI GRADUATE STUDENTS ONLY.	REQUEST OVERRIDE VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 711 PARALLEL ALGRTHM+ARC <i>Andrew McGregor</i>	COMPSCI 611 WITH GRADE OF 'B' OR BETTER.	COMPSCI GRADUATE STUDENTS ONLY.	IT IS RECOMMENDED THAT STUDENTS HAVE AN 'A' IN COMPSCI 611 IN ORDER TO ATTEMPT COMPSCI 711. STUDENTS WITH COMPSCI 590D WITH AN 'A' MAY ALSO BE CONSIDERED WITH INSTRUCTOR PERMISSION. STUDENTS NEEDING SPECIAL PERMISSION MAY REQUEST OVERRIDE VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 891M S-THEORY OF COMPUTATION <i>Ramesh Sitaraman</i>		DOCTORAL, MASTERS GRADUATE STUDENTS ONLY.	MAY BE REPEATED FOR CREDIT UP TO 6 TIMES. OTHERS NOT MEETING ELIGIBILITY, OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 899 PHD DISSERTATION			COURSE OPEN ONLY TO CS GRADUATE STUDENTS WHO HAVE PASSED PORTFOLIO. REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI H250 HNRS COLLOQ: INTRO COMPUTATION <i>David Barrington</i>	MATH 132 AND COMPSCI 187 (OR E&C-ENG 242) WITH A GRADE OF C OR BETTER.	UNDERGRADUATE CHC STUDENTS ONLY.	STUDENTS MUST BE ENROLLED IN COMPSCI 250. REQUESTS TO TAKE THE HONORS COLLOQUIUM AFTER COMPLETING 250 WITH A GRADE OF B OR BETTER WILL BE CONSIDERED, WITH INSTRUCTOR PERMISSION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI H383 HNRS COLLOQ: AI <i>Philip Thomas</i>	COMPSCI 220 (or 230) AND COMPSCI 240, BOTH WITH A GRADE OF C OR BETTER.	JUNIOR AND SENIOR CHC CS MAJORS ONLY.	STUDENTS MUST BE ENROLLED IN COMPSCI 383. REQUESTS TO TAKE THE HONORS COLLOQUIUM AFTER COMPLETING 383 WITH A GRADE OF B OR BETTER WILL BE CONSIDERED, WITH INSTRUCTOR PERMISSION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI H403 HNRS COLLOQ :INTRO ROBTCS <i>Joydeep Biswas</i>	MATH 235 (OR MATH 236) AND COMPSCI 220 (OR COMPSCI 230) WITH GRADE OF C OR BETTER.	JUNIOR AND SENIOR CHC CS MAJORS ONLY.	STUDENTS MUST BE ENROLLED IN COMPSCI 403. REQUESTS TO TAKE THE HONORS COLLOQUIUM AFTER COMPLETING 403 WITH A GRADE OF B OR BETTER WILL BE CONSIDERED, WITH INSTRUCTOR PERMISSION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .

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<p>INFO 203 A NETWORKED WORLD</p> <p><i>David Wemhoener</i></p>	UNDERGRADUATE NON-CS MAJORS ONLY.	CHANGED FROM INFO 290NW TO INFO 203. NOT INTENDED FOR CS MAJORS OR MINORS. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
<p>INFO 397F ST-INTRO TO DATA SCIENCE</p> <p><i>Gordon Anderson</i></p>	UNDERGRADUATE NON-CS MAJORS ONLY.	NOT FOR CS MAJOR/MINOR REQUIREMENTS. PREVIOUS EXPERIENCE WITH A PROGRAMMING LANGUAGE (OTHER THAN COMPSCI 121) MAY BE CONSIDERED FOR OVERRIDE. BASIC MATHEMATICAL MATURITY (COLLEGE ALGEBRA) IS ASSUMED. SOME EXPOSURE TO BASIC PROBABILITY AND STATISTICS, SUCH AS ONE OF THE COURSES REQUIRED FOR REGISTRATION ON SPIRE. KNOWLEDGE OF RELATIONAL DATABASES IS HELPFUL. SOFTWARE: THE R SOFTWARE FOR STATISTICAL ANALYSIS (HTTPS://WWW.R-PROJECT.ORG/). STUDENTS NOT MEETING PREREQUISITES WHO ARE INTERESTED IN THE INFORMATICS PROGRAM (BDIC), MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
<p>INFO 397G ST-CREATIVE GAME DESIGN&DEV</p> <p><i>Joshua Newman</i></p>	UNDERGRADUATE NON-CS MAJORS ONLY.	NOT FOR CS MAJOR/MINOR REQUIREMENTS. STUDENTS NOT MEETING PREREQUISITES WHO ARE INTERESTED IN THE INFORMATICS PROGRAM (BDIC) OR COMBINING ART WITH COMPUTING, MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
<p>INFOSEC 690F FRAUD DETECTION</p> <p><i>Marc Liberatore</i></p>	CMPSCI AND ECE GRADUATE STUDENTS ONLY.	BACKGROUND IN COMPUTER SECURITY AND PRECALCULUS OR EQUIVALENTS WITH INSTRUCTOR PERMISSION. CPE REGISTRATION: www.umassulearn.net