

SPIRE REGISTRATION INFORMATION for Spring 2017

	<u>CATALOG REQUISITE (PRE-REQ CHECK):</u>	<u>CLASS ASSOCIATED REQ (ELIG RESTRICTIONS):</u>	<u>CLASS NOTES/COMMENTS:</u>
105 Verts CMPTR LTRCY	NONE	UNDERGRADUATE NON-CS MAJORS ONLY.	INFORMATIONAL ONLY - DOES NOT AFFECT SPIRE ENROLLMENT. CS MAJORS ARE NOT ELIGIBLE FOR THIS COURSE. ATTENDING THE FIRST LECTURE IS MANDATORY. ALL STUDENTS MUST HAVE ACCESS TO A COMPUTER FOR PERFORMING ASSIGNMENTS. COMPUTER MUST RUN WINDOWS 7, WINDOWS 8, 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 . 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 . DISCUSSIONS MEET AFTER FIRST LECTURE. IF YOU HAVE 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 . 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 . BEGINNING WITH THE SPRING 2017 OFFERING, THE PREREQUISITE FOR COMPSCI 187 REQUIRES A GRADE OF B OR BETTER IN 121 (OR C OR BETTER IN COMPSCI 190D). ATTEND DISCUSSION 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 . STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides . STUDENTS WHO HAVE TAKEN COMPSCI 230 ARE NOT ELIGIBLE FOR THIS COURSE. COURSE RUNS FOR 6 WEEKS (2/1, 2/8, 2/15, 2/22, 3/1, and 3/8). ADD/DROP THROUGH 2/6. INSTRUCTOR CONSENT REQUIRED TO WITHDRAW 2/7-2/10 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 . STUDENTS ARE ENCOURAGED TO BRING A LAPTOP. WINDOWS USERS SHOULD DOWNLOAD PUTTY HERE: http://www.chiark.greenend.org/~sgtatham/putty/download.html . COURSE RUNS FOR 6 WEEKS (3/20/17-4/26/17: 3/20, 3/22, 3/27, 3/29, 4/3, 4/5, 4/10, 4/12, 4/17-NO CLASS, 4/18, 4/19, 4/24, 4/26). REGISTRATION ONLY BEFORE ADD/DROP ENDS, THROUGH 2/6. 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 . COURSE RUNS FOR 6 WEEKS (1/30/17-3/10/17: 1/30, 2/1, 2/6, 2/8, 2/13, 2/15, 2/20-NO CLASS, 2/22, 2/27, 3/1, 3/6, 3/8). ADD/DROP THROUGH 2/6. INSTRUCTOR CONSENT REQUIRED TO WITHDRAW 2/7-2/10 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 . STUDENTS WHO ARE ENROLLED IN OR HAVE TAKEN COMPSCI 326 ARE NOT ELIGIBLE FOR THIS COURSE. COURSE RUNS FOR 6 WEEKS (1/30/17-3/10/17: 2/2, 2/9, 2/16, 2/23, 3/2, 3/9. ADD/DROP THROUGH 2/6. INSTRUCTOR CONSENT REQUIRED TO WITHDRAW 2/7-2/10 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 .
119 Verts INTRO PROGRAMMING	NONE	UNDERGRADUATE NON-CS MAJORS ONLY.	
121 Anderson, Thota PRBLM SLVNG W/CMPTRS	NONE	UNDERGRADUATE STUDENTS ONLY.	
145 Verts REP,STORNG&RET INFO	R1.	UNDERGRADUATE NON-CS MAJORS ONLY.	
187 Wang, Thota PGMG W/DATA STRCTRS	COMPSCI 121 WITH A GRADE OF B OR BETTER (OR COMPSCI 190D WITH A C OR BETTER).	UNDERGRADUATE CS MAJORS ONLY.	
190D Liberatore USING DATA STRUCTURES	COMPSCI 121 WITH A GRADE OF C OR BETTER AND BASIC MATH SKILLS (R1).	UNDERGRADUATES ONLY.	
197C Scarrci ST-PGMG IN C	COMPSCI 187 (OR E&C-ENG 242) WITH A GRADE OF 'C' OR BETTER.	FRESHMEN AND SOPHOMORE CS MAJORS ONLY.	
197S Pikovsky ST-BASICS OF CYBERSECURITY	NONE	FRESHMEN AND SOPHOMORE CS MAJORS ONLY.	
197U Foley ST-A HANDS-ON INTRO TO UNIX	NONE	FRESHMEN AND SOPHOMORE CS MAJORS ONLY.	
197WP Scarrci ST-INTRO TO HTML/CSS	COMPSCI 121 WITH A GRADE OF 'C' OR BETTER.	FRESHMEN AND SOPHOMORE CS MAJORS ONLY.	
198J Berger HIGH SCHOOL TEACHING PRACTICUM			

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<p>220 Anderson PGMG METHODOLOGY</p>	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 .
<p>230 Richards CMPTR SYS PRINC</p>	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 .
<p>240 McGregor RSNG UNDER UNCERTAINTY</p>	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 .
<p>250 Barrington INTRD TO CMPTN</p>	MATH 132 AND COMPSCI 187 (OR E&C-ENG 242) WITH 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. STUDENTS WHO HAVE COMPLETED MATH 131 AND COMPSCI 187 OR EQUIVALENT AND HAVE A CO-REQUISITE OF MATH 132 MAY REQUEST OVERRIDE (PERMISSION MAY BE GRANTED IF BETTER THAN AVERAGE GRADES AND 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 .
<p>305 Trim SOC ISS IN CMPTNG</p>	ENGLWRIT 112 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 .
<p>311 Sitaraman INTRD TO ALGRTHMS</p>	COMPSCI 250 (OR MATH 455) WITH 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 .
<p>320 Just INTRD TO SFTWR ENGG</p>	COMPSCI 220 WITH GRADE OF 'C' OR BETTER.	SOPHOMORE, 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. 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 .
<p>326 Richards WEB PGMG</p>	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 .
<p>348 Jensen INTRO KNWLDG DISCVRY</p>	COMPSCI 187 (OR E&C-ENG 242), COMPSCI 240, AND COMPSCI 250 (OR MATH 455), ALL 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 .
<p>365 Liberatore DIGITAL FORENSICS</p>	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 .
<p>370 Maji INTRO TO CMPTR VISION</p>	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 .
<p>373 Kalogerakis INTRO TO CMPTR GRPHCS</p>	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.	CHANGED FROM COMPSCI 390CG TO 373. STUDENTS WHO HAVE TAKEN COMPSCI 473 ARE NOT ELIGIBLE. 5 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 .

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377 OPRTNG SYSS Corner	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 .
383 ARTFCL INTLLGNC Fedorenko, Freedman	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 .
390N INTERNET OF THINGS Lee	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 .
445 INFO SYSS Miklau	COMPSCI 220 (OR COMPSCI 230) AND COMPSCI 311, BOTH WITH GRADE OF 'C' OR BETTER.	CS MAJORS ONLY.	STUDENTS WHO ENROLL IN THIS COURSE AFTER TAKING 345 WILL BE DROPPED. PERMISSION OF INSTRUCTOR VIA OVERRIDE REQUIRED FOR STUDENTS INTERESTED IN TAKING 445 AFTER 345, 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 .
445HH INFO SYSS (W/COLLOQ) Miklau	COMPSCI 220 (OR COMPSCI 230) AND COMPSCI 311, BOTH WITH GRADE OF 'C' OR BETTER.	OPEN TO SENIOR, JUNIOR, AND SOPHOMORE COMMONWEALTH HONORS COLLEGE CS MAJORS ONLY.	HONORS COLLOQUIUM INCLUDED. STUDENTS WHO ARE NOT CS MAJORS BUT HAVE SUFFICIENT PROGRAMMING EXPERIENCE OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
446 SEARCH ENGINES Fisher	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 .
453 CMPTR NTWKS Kermani	COMPSCI 230 (OR COMPSCI 377) WITH A GRADE OF 'C' OR BETTER.	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 .
491G S-CMPTR NTWRKG LAB Kermani	COMPSCI 453 WITH A GRADE OF 'C' OR BETTER.	UNDERGRADUATE STUDENTS ONLY.	CLASS MEETS IN LGRC A311 FOR INITIAL CLASS ORIENTATION ON FRIDAY, JANUARY 27TH, ONLY. 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 .
496E IS-MDERNZNG BAYESN INFRNC ENGIN Moss	NONE	NONE	NONE
501 FRML LANG THRY Barrington	UNDERGRADUATES: COMPSCI 311 WITH A GRADE OF 'C' OR BETTER.	Lect 01: UNDERGRADUATE STUDENTS 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. 5 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 .
503 EMBEDDED CMPTNG SYSS Gruppen	UNDERGRADUATES: COMPSCI 383 (OR M&I-ENG 310; M&I-ENG 313; M&I-ENG 397B; E&C-ENG 313; E&C-ENG 323; E&C-ENG 353) WITH A GRADE OF 'C' OR BETTER.	Lect 01: UNDERGRADUATE STUDENTS ONLY. Lect 02: MS-CMPSCI, MS-ME, MS-EE, STUDENTS ONLY.	ATTEND FIRST CLASS MEETING. INSTRUCTOR WILL COMBINE STUDENTS WITH COMPLEMENTARY BACKGROUNDS INTO TEAMS. 5 SEATS HELD FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/ugrad-education/courses
521 S/W ENG: ANALYSIS Brun	UNDERGRADUATES: CMPSCI 320 WITH GRADE OF 'C' OR BETTER.	Lect 01: SENIOR, JUNIOR CMPSCI MAJORS ONLY. Lect 02: MS-CMPSCI GRADUATE STUDENTS ONLY.	MEETS WITH COMPSCI 621. LECT 01=UG; LECT 02=GRADS. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
529 S/W ENG PROJ MGMT Just	COMPSCI 320 WITH A GRADE OF 'A-' OR BETTER.	NONE	MEETS WITH COMPSCI 320. STUDENTS NEEDING INSTRUCTOR PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
535 CMPTR ARCHT Weems	UNDERGRADUATES: COMPSCI 335 WITH A GRADE OF 'C' OR BETTER.	Lect 01: JUNIOR AND SENIOR CS MAJORS ONLY. Lect 02: MS-CMPSCI STUDENTS ONLY.	LECT 01 FOR UNDERGRADS; LECT 02 FOR GRADS. 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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589 MACH LRNG Marlin	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. 20 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 .
589HH MACH LRNG (W/COLLOQ) Marlin	UNDERGRADUATES: COMPSCI 383 AND MATH 235 WITH A GRADE OF C OR BETTER.	OPEN TO SENIOR, JUNIOR, AND SOPHOMORE COMMONWEALTH HONORS COLLEGE CS MAJORS ONLY.	HONORS COLLOQUIUM INCLUDED. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
590F DIGITAL FORENSICS Liberatore	NONE	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 .
590P SECURE DISTRIBUTED SYSTEMS Levine	UNDERGRADUATES: COMPSCI 377 (OR COMPSCI 460 OR COMPSCI 453 OR COMPSCI 410 OR COMPSCI 474 OR COMPSCI 491P OR COMPSCI 497P) WITH A GRADE OF C OR BETTER.	Lect 01: JUNIOR AND SENIOR CS MAJORS OR SENIOR CSENG MAJORS ONLY. Lect 02: MS-CMPSCI, MS-MATH&STATS, MS-ECE, MS-SOM STUDENTS ONLY.	COURSE NUMBER CHANGED FROM COMPSCI 591SP TO 590P. LECT 01 FOR UNDERGRADS; LECT 02 FOR GRADS. OPEN TO STUDENTS IN OTHER DEPARTMENTS WITH PERMISSION OF INSTRUCTOR. STUDENTS NOT MEETING ELIGIBILITY, OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
590V DATA VISUALZTN AND EXPLRATION Grinstein	UNDERGRADUATES: COMPSCI 220 (OR COMPSCI 230), 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. 10 SEATS HELD FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
601 CMPTN THRY Immerman	NONE	CMPSCI GRADUATE STUDENTS ONLY.	PREREQUISITES: AN UNDERGRADUATE COURSE IN AUTOMATA THEORY AND FORMAL LANGUAGES SUCH AS COMPSCI 501 OR PERMISSION OF INSTRUCTOR. UNDERGRADUATES WITH PERMISSION OF INSTRUCTOR. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
603 ROBOTICS Biswas	NONE	CMPSCI GRADUATE STUDENTS ONLY.	UNDERGRADUATES WITH PERMISSION OF INSTRUCTOR. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
621 ADV S/WENG:ANALYSIS Brun	NONE	CMPSCI GRADUATE STUDENTS ONLY.	MEETS WITH COMPSCI 521. 5 SEATS HELD FOR INCOMING STUDENT REGISTRATION. ECE GRADUATE STUDENTS BY PERMISSION IF AVAILABLE SEATS. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
630 SYSTEMS Berger	NONE	CMPSCI GRADUATE STUDENTS ONLY.	SENIOR CS MAJORS WITH PERMISSION OF INSTRUCTOR; BACKGROUND IN UNDERGRAD OS IS HELPFUL. 5 SEATS HELD FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
645 DB DSGN & IMPLMNTN Meliou	NONE	CMPSCI GRADUATE STUDENTS ONLY.	STUDENTS SHOULD HAVE TAKEN AN UNDERGRADUATE LEVEL COURSE ON OPERATING SYSTEMS OR DATABASES. 7 SEATS HELD FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
660 ADV INFO ASSURANCE Houmansadr	NONE	CMPSCI GRADUATE STUDENTS ONLY.	PREREQUISITE OF COMPSCI 460 OR COMPSCI 466, OR EQUIVALENT. UNDERGRADUATE CS MAJORS AND NON-CS STUDENTS BY PERMISSION OF INSTRUCTOR. 5 SEATS HELD FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
677 DISTRIBUTED AND OPRTNG SYSS Shenoy	NONE	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. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
683 ARTFCL INTLLGNC Zilberstein	NONE	CMPSCI GRADUATE STUDENTS ONLY.	STUDENTS WHO HAVE TAKEN AN UNDERGRADUATE AI COURSE PREFERRED. 10 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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	<u>CATALOG REQUISITE (PRE-REQ CHECK):</u>	<u>CLASS ASSOCIATED REQ (ELIG RESTRICTIONS):</u>	<u>CLASS NOTES/COMMENTS:</u> INFORMATIONAL ONLY - DOES NOT AFFECT SPIRE ENROLLMENT.
687 RNFRMNT LRNG	** DELETED NONE	COMPSCI GRADUATE STUDENTS ONLY.	PREREQUISITES: COMPSCI 689 (OR COMPSCI 683) AND STATISTICS 515 (OR STATISTICS 607 OR STATISTICS 608), ALL WITH A GRADE OF C OR BETTER. SENIOR CS MAJORS WITH PREREQUISITE OF COMPSCI 383 AND STATISTICS 515, BOTH WITH A GRADE OF C OR BETTER, MAY BE CONSIDERED IF AVAILABLE SEATS. 7 SEATS HELD FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
688 GRAPHICAL MODELS	Domke NONE	COMPSCI GRADUATE STUDENTS ONLY.	COURSE NUMBER CHANGED FROM COMPSCI 691GM TO COMPSCI 688. 7 SEATS HELD FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
690N ADV NATURAL LANG PROCESSING	O'Connor NONE	COMPSCI 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 .
690T CODING THEORY AND APPLICS	Mazumdar NONE	COMPSCI GRADUATE STUDENTS ONLY.	REQUIRED MATHEMATICAL MATURITY, EXPOSURE TO BASIC MATHEMATICAL COURSES SUCH AS COMPSCI 240 AND MATH 235 OR EQUIVALENT (A SOLID GROUNDING IN LINEAR ALGEBRA AND PROBABILITY THEORY IS NECESSARY). STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA ON-LINE FORM: https://www.cics.umass.edu/overrides .
691BR S-BLDG A ROBOT SOCCER TEAM	Biswas NONE	COMPSCI GRADUATE STUDENTS ONLY.	<i>THE EXPECTED OUTCOMES OF THE CLASS IS A GROUP UNDERSTANDING OF THE STATE OF THE ART IN THE SUB-PROBLEMS OF ROBOT SOCCER, AND TO HAVE A CODEBASE WITH HIGH-QUALITY IMPLEMENTATIONS OF THE STATE OF THE ART, WHICH WILL THEN BE USED FOR THE UMASS ROBOCUP TEAM AT THE 2017 ROBOCUP COMPETITION AT NAGOYA, JAPAN. THE LEAGUE THAT WE WILL BE ENTERING IN IS THE SMALL SIZE LEAGUE (SSL). RULES, DESCRIPTIONS, AND TEAM DESCRIPTION PAPERS OF TEAMS FROM PAST ROBOCUP COMPETITIONS ARE AVAILABLE ON THE ROBOCUP SSL WIKI. NO FORMAL PREREQUISITES, HOWEVER, PARTICIPANTS MUST</i>
691RS S-INTRO RCMMNDR SYSTMS	Zhang NONE	COMPSCI GRADUATE STUDENTS ONLY.	STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
696CA IS-MULTILING REPRESENTN/CROSS-	McCallum		
696F IS-INFRMN INTGTN/DATA POPULA	McCallum		
696LA IS-CONCEPT/THEME ROLLUP	McCallum		
696MA IS-MANUSCRIPT PDF/PARSNG/LABEL	McCallum		
696QA IS-MULTILING REPRESENTN/CROSS-	McCallum		
697W ST-WRBL & MBL SNSR CMPTNG	Ganesan NONE	COMPSCI AND EE GRADUATE STUDENTS ONLY.	LECT 01=3 CREDITS; LECT 02=1 CREDIT. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
701 ADV TOPICS IN COMPSCI	STAFF NONE	DOCTORAL, MASTERS CS STUDENTS ONLY.	REQUEST OVERRIDE VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .

SPIRE REGISTRATION INFORMATION for Spring 2017

		<u>CATALOG REQUISITE (PRE-REQ CHECK):</u>	<u>CLASS ASSOCIATED REQ (ELIG RESTRICTIONS):</u>	<u>CLASS NOTES/COMMENTS:</u>
891M	Barrington	NONE	DOCTORAL, MASTERS MAJORS ONLY.	INFORMATIONAL ONLY - DOES NOT AFFECT SPIRE ENROLLMENT. 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 .
THRY OF CMPTN				
899	STAFF	NONE	NONE	COURSE OPEN ONLY TO CS GRADUATE STUDENTS WHO HAVE PASSED PORTFOLIO. REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
PH D DISSERTATION				
CICS 596T	STAFF	NONE	PHD-CMPSCI STUDENTS ONLY.	SUBMIT CPT APPLICATION TO GRADUATE PROGRAM MANAGER, CS MAIN OFFICE. DURING ACADEMIC YEAR, MS-CMPSCI GRADUATE STUDENTS CAN ENROLL IN THIS COURSE WITH MSPD CONSENT. CPE SECTIONS ARE NOT AVAILABLE.
IS-CPT				
CICS 597C	**DELETED	NONE	NONE	NONE
ST-INTRO TO COMPUTER SECURITY				
INFO 203	Gill	NONE	UNDERGRADUATE NON-CS MAJORS ONLY.	<i>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.</i>
A NETWORKED WORLD				
INFO 397F	Anderson	COMPSCI 121 AND PSYCH 240 (OR OIM 240, OR STATISTICS 240, OR STATISTICS 515, OR RES-ECON 212, OR SOCIO 212) BOTH WITH A GRADE OF C OR BETTER.	UNDERGRADUATE NON-CS MAJORS ONLY.	NOT FOR CS MAJOR/MINOR REQUIREMENTS. PREVIOUS EXPERIENCE WITH A PROGRAMMING LANGUAGE MAY BE CONSIDERED FOR OVERRIDE. BASIC MATHEMATICAL MATURITY TO THE LEVEL OF PRE-CALCULUS. SOME EXPOSURE TO BASIC PROBABILITY AND STATISTICS. 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 .
ST-INTRO TO DATA SCIENCE				
INFO 397G	Newman	INFO 190IN OR INFO 150 (OR 190DM) WITH A GRADE OF C OR BETTER.	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 .
ST-CREATIVE GAME DESIGN&DEV				