

**SPIRE REGISTRATION INFORMATION for Fall 2016**

	<u>CATALOG REQUISITE (PRE-REQ CHECK):</u>	<u>CLASS ASSOCIATED REQ (ELIG RESTRICTIONS):</u>	<u>CLASS NOTES/COMMENTS:</u>
<b>105</b> CMPTR LTRCY Verts	NONE	NON-CS MAJORS ONLY.	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: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
<b>119</b> INTRO PROGRAMMING Verts	NONE	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: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
<b>120</b> PRBLM SLVNG W/INTRNT Verts	NONE	NON-CS MAJORS ONLY.	CS MAJORS ARE NOT ELIGIBLE FOR THIS COURSE. MANDATORY ATTENDANCE TO FIRST CLASS MEETING IS ESSENTIAL. ALL STUDENTS MUST HAVE ACCESS TO A COMPUTER CONNECTED TO THE INTERNET FOR PERFORMING ASSIGNMENTS. PC RECOMMENDED; MAC ALLOWED FOR MOST, BUT NOT ALL ASSIGNMENTS. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
<b>121</b> PRBLM SLVNG W/CMPTRS Anderson, Thota	NONE	UNDERGRADUATE STUDENTS ONLY.	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: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
<b>187</b> PGMG W/DATA STRCTR Corner, Thota	COMPSCI 121 WITH A GRADE OF C OR BETTER.	UNDERGRADUATE CS MAJORS ONLY.	ADVISING INFORMATION ABOUT THE PREREQUISITE: FOR FALL 2016, STUDENTS WITH GRADES OF B-, C+, OR C IN 121 ARE STRONGLY ENCOURAGED TO TAKE 190D PRIOR TO 187. BEGINNING WITH THE SPRING 2017 OFFERING, THE PREREQUISITE FOR 187 WILL CHANGE TO A GRADE OF B OR BETTER IN 121 (OR C OR BETTER IN 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: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
<b>187HH</b> PGMG W/DATA STRCTR (W/COLLOQ) Corner, Thota	COMPSCI 121 WITH A GRADE OF C OR BETTER.	OPEN TO COMMONWEALTH HONORS COLLEGE CS MAJORS ONLY.	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: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
<b>190D</b> USING DATA STRUCTURES Liberatore	COMPSCI 121 WITH A C OR BETTER AND BASIC MATH SKILLS (R1).	UNDERGRADUATES ONLY.	STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
<b>191CMPS1</b> CS MAJOR FIRST YR SEM ** DELETED	NONE	CS FIRST YEAR STUDENTS ONLY.	COMPUTER SCIENCE FIRST YEAR STUDENTS ONLY. REGISTRATION AVAILABLE ONLY DURING SUMMER ORIENTATION.
<b>197B</b> ST-ADV ASSIGN FOR 121 Anderson	NONE	UNDERGRADUATES ONLY.	MUST BE ENROLLED IN COMPSCI 121 CONCURRENTLY. STUDENTS NEEDING PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
<b>197C</b> ST-PGMG IN C Scarrci	COMPSCI 187 (OR E&C-ENG 242) WITH A GRADE OF 'C' OR BETTER.	CS MAJORS ONLY.	STUDENTS WHO HAVE TAKEN COMPSCI 230 ARE NOT ELIGIBLE FOR THIS COURSE. COURSE RUNS FOR 6 WEEKS (9/14, 9/21, 9/28, 10/5, 10/12, and 10/19). ADD/DROP THROUGH 9/19. INSTRUCTOR CONSENT REQUIRED TO WITHDRAW 9/20-9/23 ONLY. CS MINORS AND APPLICANTS-ON-CONTRACT NOT MEETING ELIGIBILITY, OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> . STUDENTS ARE ENCOURAGED TO BRING A LAPTOP. WINDOWS USERS SHOULD DOWNLOAD PUTTY HERE: <a href="http://www.chiark.greenend.org/~sgtatham/putty/download.html">http://www.chiark.greenend.org/~sgtatham/putty/download.html</a> .

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	<u>CATALOG REQUISITE (PRE-REQ CHECK):</u>	<u>CLASS ASSOCIATED REQ (ELIG RESTRICTIONS):</u>	<u>INFORMATIONAL ONLY - DOES NOT AFFECT SPIRE REGISTRATION.</u> <u>CLASS NOTES/COMMENTS:</u>
<b>197U</b> ST-HANDS-ON INTRO UNIX Foley	NONE	CS MAJORS ONLY.	COURSE RUNS FOR 6 WEEKS (9/13/16-10/25/16: 9/13, 9/15, 9/20, 9/22, 9/27, 9/29, 10/4, 10/6, 10/11-NO CLASS, 10/13, 10/18, 10/20, 10/25). ADD/DROP THROUGH 9/19. INSTRUCTOR CONSENT REQUIRED TO WITHDRAW 9/20-9/23 ONLY. CS MINORS AND APPLICANTS-ON-CONTRACT NOT MEETING ELIGIBILITY, OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
<b>197WP</b> ST-INTRO TO HTML/CSS Scarrci	COMPSCI 121 WITH A GRADE OF 'C' OR BETTER.	CS MAJORS ONLY.	STUDENTS WHO ARE ENROLLED IN OR HAVE TAKEN COMPSCI 326 ARE NOT ELIGIBLE FOR THIS COURSE. COURSE RUNS FOR 6 WEEKS (9/13/16-10/25/16: 9/13, 9/20, 9/27, 10/4, 10/11-NO CLASS, 10/18, 10/25). ADD/DROP THROUGH 9/19. INSTRUCTOR CONSENT REQUIRED TO WITHDRAW 9/20-9/23 ONLY. CS MINORS AND APPLICANTS-ON-CONTRACT NOT MEETING ELIGIBILITY, OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
<b>220</b> PGMG METHODOLOGY Guha	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: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
<b>230</b> CMPTR SYS PRINC Richards	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: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
<b>240</b> RSNG UNDER UNCERTAINTY Mazumdar	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: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
<b>250</b> INTRD TO CMPTN Immerman	MATH 132 AND COMPSCI 187 (OR E&C-ENG 242) WITH GRADE OF 'C' OR BETTER.	CS, MATH, AND CSENG 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 THEN 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: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
<b>305</b> SOC ISS IN CMPTNG Trim	ENGLWRIT 112 WITH 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: <a href="https://www.cs.umass.edu/overrides">https://www.cs.umass.edu/overrides</a> .
<b>311</b> INTRD TO ALGRTHMS McGregor, Krishnamurthy	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: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
<b>320</b> INTRD TO SFTWR ENGG Anderson	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. AN OPTIONAL HONORS SEMINAR MAY BE 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: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
<b>325</b> INTRO TO HUMAN CMPTR INTERACTN Hudlicka	NONE	UNDERGRADUATE SENIORS AND JUNIORS ONLY.	25 SEATS RESERVED FOR CS MAJORS. 10 SEATS HELD FOR INFORMATICS (BDIC) MAJORS. 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 STUDENT CURRENT GPA. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .

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<b>326</b> WEB PGMG Richards	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 SHOULD REQUEST AN OVERRIDE TO BE CONSIDERED FOR THE COURSE. CS MINORS, APPLICANTS-ON-CONTRACT, AND OTHERS NOT MEETING ELIGIBILITY, OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
<b>335</b> INSIDE BOX:HOW CMPTRS WORK Weems	COMPSCI 220 (OR COMPSCI 230) WITH A GRADE OF 'C' OR BETTER.	SENIOR, JUNIOR, SOPHOMORE 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: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
<b>335HH</b> INSIDE BOX:HOW CMPS WORK (W/COLLOQ) Weems	COMPSCI 220 (OR COMPSCI 230) 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: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
<b>345</b> PRACT & APPLICS OF DATA MGMT Miklau	COMPSCI 187 (OR E&C-ENG 242) WITH A GRADE OF 'C' OR BETTER.	NONE	20 SEATS ARE RESERVED FOR JUNIORS, SOPHOMORES, AND FRESHMEN. 10 SEATS HELD FOR INFORMATICS (BDIC) MAJORS. STUDENTS ARE EXPECTED TO HAVE BASIC PROGRAMMING SKILLS, AND BE ABLE TO OCCASIONALLY USE LAPTOPS IN CLASS. STUDENTS WHO HAVE TAKEN COMPSCI 445 ARE NOT ELIGIBLE. STUDENTS NEEDING SPECIAL PERMISSION (INSTRUCTOR PERMISSION IF NOT MEETING PREREQUISITE) MUST REQUEST OVERRIDES (FOR AVAILABLE SEATS) VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> . COURSE NUMBER CHANGED FROM 390DB TO 345.
<b>377</b> OPRTNG SYSS Shenoy	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: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
<b>383</b> ARTFCL INTLLGNC Zilberstein	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: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
<b>390MB</b> MOBILE HLTH SENSING&MONITORING Ganesan	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: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
<b>391H</b> SOFTWARE ENGG W/HONORS Osterweil	COMPSCI 220 WITH A GRADE OF B OR BETTER.	OPEN TO SENIOR, JUNIOR, AND SOPHOMORE COMMONWEALTH HONORS COLLEGE CS MAJORS ONLY.	STUDENTS MUST BE ENROLLED IN COMPSCI 320. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
<b>391L</b> S-CMPTR CRIME LAW:INVSTG/PRVCY Liberatore	COMPSCI 230 AND ENGLWRIT 112 WITH A GRADE OF 'C' OR BETTER, OR CW G.ED. REQUIREMENT.	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: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
<b>403</b> INTRO ROBTCS:PRCP,MECH,DYN, CTRL Biswas	MATH 235 (OR MATH 236) AND COMPSCI 220 (OR COMPSCI 230) WITH GRADE OF C OR BETTER.	NONE	UNDERGRADUATE PROGRAMMING CLASS, C OR C++ EXPERIENCE. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
<b>410</b> CMPLR TCHNQS Moss	COMPSCI 250 (OR MATH 455) AND COMPSCI 377, BOTH WITH A GRADE OF C OR BETTER.	JUNIOR AND SENIOR CS MAJORS ONLY.	MEETS WITH COMPSCI 610. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
<b>453</b> 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: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .

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<b>460</b> CMPTR & NTRK SCRTY Houmansadr	COMPSCI 377 WITH GRADE OF C OR BETTER.	JUNIOR AND SENIOR CS MAJORS ONLY.	STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
<b>474</b> IMAGE SYNTHESIS Wang	COMPSCI 187 (OR E&C-ENG 242) AND MATH 235, ALL WITH A GRADE OF 'C' OR BETTER.	CS MAJORS ONLY.	PRIOR KNOWLEDGE OF COMPUTER GRAPHICS PREFERRED. IDEALLY THE STUDENT SHOULD HAVE TAKEN COMPSCI 390CG (OR COMPSCI 473, COMPSCI 591B, OR EQUIVALENT). MATH (BASIC CALCULUS, LINEAR ALGEBRA) AND JAVA PROGRAMMING SKILLS REQUIRED. CS MINORS, APPLICANTS-ON-CONTRACT, AND OTHERS NOT MEETING ELIGIBILITY, OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
<b>491IP</b> S-PGMG THE IPHONE AND IPAD Weems	COMPSCI 320 OR 326 WITH A GRADE OF C OR BETTER.	CS MAJORS ONLY.	STUDENTS NEED ACCESS TO AN INTEL PROCESSOR MACHINE (PREFERABLY A LAPTOP FOR USE IN CLASS) RUNNING THE MOST RECENT VERSION OF OSX, AND WILL BE REQUIRED TO JOIN THE APPLE DEVELOPER PROGRAM TO USE THE NECESSARY SOFTWARE. IF USING A HACKINTOSH, STUDENTS ARE STRONGLY ADVISED TO FIRST CHECK COMPATIBILITY WITH THE DEVELOPMENT KIT AND SIMULATOR. COMPSCI 326 AS A PREREQUISITE WITH INSTRUCTOR PERMISSION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
<b>520</b> S/W ENG: SYNTHESIS Just	UNDERGRADUATES MUST HAVE COMPLETED COMPSCI 320 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. 10 SEATS HELD IN LECT 02 FOR INCOMING STUDENT REGISTRATION. MEETS WITH COMPSCI 620. CS MINORS, APPLICANTS-ON-CONTRACT, AND OTHERS NOT MEETING ELIGIBILITY, OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
<b>529</b> S/W ENG PROJ MGMT Anderson	COMPSCI 320 WITH A GRADE OF 'A-' OR BETTER.	NONE	PERMISSION OF INSTRUCTOR REQUIRED. MEETS WITH COMPSCI 320. STUDENTS NEEDING INSTRUCTOR PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
<b>575</b> CMBNTRCS & GRPH THRY Barrington	OPEN TO UNDERGRADUATES WITH COMPSCI 250 (OR MATH 455) WITH A GRADE OF B OR BETTER.	Lect 01: UNDERGRADUATES ONLY. Lect 02: MS-CMPSCI GRADUATE STUDENTS ONLY.	CROSS-LISTED WITH MATH 513. LECT 01=UG; LECT 02=GRADS. IF NOT MEETING PREREQUISITES, STUDENTS NEEDING INSTRUCTOR PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
<b>585</b> INTRD TO NLP O'Connor	UNDERGRADUATES: COMPSCI 220 (OR COMPSCI 230) AND COMPSCI 240, BOTH WITH A GRADE OF C OR BETTER.	Lect 01: JUNIOR AND SENIOR CS MAJORS ONLY. Lect 02: MS-CMPSCI GRADUATE STUDENTS ONLY.	LECT 01=UG; LECT 02=GRADS. 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 CONTACT INSTRUCTOR. STUDENTS FROM OTHER DISCIPLINES WILL BE CONSIDERED AS WELL. 15 SEATS HELD IN LECT 02 FOR INCOMING STUDNET REGISTRATION. STUDENTS NEEDING INSTRUCTOR PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
<b>585HH</b> INTRD TO NLP (W/COLLOQ) O'Connor	UNDERGRADUATES: COMPSCI 220 (OR COMPSCI 230) AND COMPSCI 240, BOTH WITH A GRADE OF C OR BETTER.	<i>JUNIOR AND SENIOR COMMONWEALTH HONORS COLLEGE CS MAJORS ONLY.</i>	<i>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 CONTACT INSTRUCTOR. STUDENTS FROM OTHER DISCIPLINES WILL BE CONSIDERED AS WELL. STUDENTS NEEDING INSTRUCTOR PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a>.</i>
<b>589</b> MACH LRNG Domke	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. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
<b>590B</b> DETECTING INTRFRNCE-NTWRKS Gill	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. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
<b>590D</b> ALGRTHMS FOR DATA SCI Saha	UNDERGRADUATES: COMPSCI 240 OR 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. 8 SEATS HELD IN LECT 02 FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .

**SPIRE REGISTRATION INFORMATION for Fall 2016**

	<u>CATALOG REQUISITE (PRE-REQ CHECK):</u>	<u>CLASS ASSOCIATED REQ (ELIG RESTRICTIONS):</u>	<u>CLASS NOTES/COMMENTS:</u>
<b>590N</b> INTRO NUMRICAL CMPTNG W/PYTHON Adams	NONE	GRADUATE STUDENTS ONLY.	LECT 02 IS ON-LINE. COURSE RUNS FOR 6 WEEKS (9/6/16-10/18/16: 10/11-NO CLASS). ADD/DROP THROUGH 9/19. INSTRUCTOR CONSENT REQUIRED TO WITHDRAW 9/20-9/23 ONLY. FAMILIARITY WITH UNDERGRADUATE-LEVEL PROBABILITY, STATISTICS, AND LINEAR ALGEBRA WILL BE ASSUMED. 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: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
<b>590S</b> SYSTEMS FOR DATA SCI Berger	UNDERGRADUATES: COMPSCI 311, COMPSCI 345, AND COMPSCI 377, ALL 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. 8 SEATS HELD IN LECT 02 FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
<b>591CF</b> S-CYBERSECURITY LECTURE SERIES Levine, Houmansadr	NONE	NONE	MEETS WITH ECE 591CF. MAY BE REPEATED FOR CREDIT UP TO 2 TIMES. MANDATORY SAT/UN GRADING. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
<b>591L</b> S-CMPTR CRIME LAW:INVSTG/PRVCY Liberatore	NONE	MS-COMPSCI STUDENTS ONLY.	STUDENTS WHO HAVE TAKEN COMPSCI 391L AS AN UNDERGRADUATE ARE NOT ELIGIBLE FOR THIS COURSE. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
<b>597A</b> ST-AGILE SOFTWARE PROJ MGMT Richards	COMPSCI 326 WITH A GRADE OF 'A-' OR BETTER.	JUNIOR AND SENIOR CS MAJORS ONLY.	STUDENTS WILL WORK WITH A TEAM OF STUDENTS ENROLLED IN COMPSCI 326. PRIORITY WILL BE GIVEN TO STUDENTS WHO HAVE NOT COMPLETED COMPSCI 529. STUDENTS NEEDING INSTRUCTOR PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
<b>597N</b> ST-CMPTR & NTRK SCRTY Houmansadr	NONE	MS-COMPSCI STUDENTS ONLY.	STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
<b>597R</b> ST-APPLIED INFRMTN RETRIEVAL Fisher	UNDERGRADUATES: COMPSCI 320 AND COMPSCI 383 (OR COMPSCI 446 OR COMPSCI 585) WITH C OR BETTER.	LECT 01: UNDERGRADUATES ONLY. LECT 02: MS-CMPSCI STUDENTS ONLY.	LECT 01 FOR UNDERGRADS; LECT 02 FOR GRADS. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
<b>610</b> CMPLR TCHNQS Moss	NONE	COMPSCI GRADUATE STUDENTS ONLY.	SENIOR CS MAJORS MAY TAKE FOR CREDIT IF PREREQUISITES FOR COMPSCI 410 ARE MET WITH PERMISSION OF INSTRUCTOR. MEETS WITH COMPSCI 410. 5 SEATS HELD FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
<b>611</b> ADV ALGRMS Sitaraman	NONE	COMPSCI GRADUATE STUDENTS ONLY.	UNDERGRADUATES WITH PERMISSION OF INSTRUCTOR. 25 SEATS HELD FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
<b>620</b> ADV S/WENG:SYNTHESIS Just	NONE	COMPSCI GRADUATE STUDENTS ONLY.	MEETS WITH COMPSCI 520. PREREQUISITE OF COMPSCI 320 WITH A GRADE OF C OR BETTER REQUIRED FOR SENIORS, OR PERMISSION OF INSTRUCTOR. 7 SEATS HELD FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
<b>631</b> PGMG LANGS Guha	NONE	COMPSCI GRADUATE STUDENTS ONLY.	10 SEATS HELD FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/ugrad-education/course">https://www.cics.umass.edu/ugrad-education/course</a>
<b>646</b> INFO RTRVL Jiang	NONE	COMPSCI GRADUATE STUDENTS ONLY.	PERMISSION OF INSTRUCTOR FOR SENIOR CS MAJORS WHO MEET THE PREREQUISITE OF COMPSCI 445 OR 446 WITH A GRADE OF C OR BETTER. 10 SEATS HELD FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .

**SPIRE REGISTRATION INFORMATION for Fall 2016**

	<u>CATALOG REQUISITE (PRE-REQ CHECK):</u>	<u>CLASS ASSOCIATED REQ (ELIG RESTRICTIONS):</u>	<u>INFORMATIONAL ONLY - DOES NOT AFFECT SPIRE REGISTRATION.</u> <u>CLASS NOTES/COMMENTS:</u>
670 CMPTR VISION Maji	NONE	CMPSCI GRADUATE STUDENTS ONLY.	PREREQUISITES ARE LINEAR ALGEBRA, CALCULUS 1 AND 2, MULTI-VARIATE CALCULUS OR PERMISSION OF INSTRUCTOR. STATS 515 OR PERMISSION OF INSTRUCTOR. ADVANCED UNDERGRADUATES WITH PERMISSION OF INSTRUCTOR. 15 SEATS HELD FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING INSTRUCTOR PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> . NUMBER CHANGED FROM COMPSCI 691A TO COMPSCI 670.
689 MACH LRNG Mahadevan	NONE	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. 25 SEATS HELD FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
690B DETECTING INTRFRNCE-NTWRKS Gill	NONE	CMPSCI GRADUATE STUDENTS ONLY.	MEETS WITH COMPSCI 590B. 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: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
690IV INTELLIGENT VISUAL CMPTNG Kalogerakis	NONE	GRADUATE CMPSCI STUDENTS ONLY.	NO PREREQ FOR CS GRADS. FOR OTHERS, REQUIRED PREREQS OR EQUIV: COMPSCI 311, 383, AND 390CG (OR 473), ALL WITH A GRADE OF A- OR BETTER. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
690PE PERFORMANCE EVAL Nain	NONE	CMPSCI GRADUATE STUDENTS ONLY.	UNDERGRADUATE OR GRADUATE COURSE ON PROBABILITY THEORY. 10 SEATS HELD FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
691E S-INTRCTV ML: ALGRTHMS & THEORY Krishnamurthy	NONE	CS GRADUATE STUDENTS ONLY.	LECT 01=3 CREDITS; LECT 02=1 CREDIT. STUDENTS ENROLLED IN THE 3 CREDIT VERSION OF THE COURSE WILL PRESENT ONE PAPER IN DETAIL TO THE CLASS AS WELL AS PREPARE NOTES FOR ONE ADDITIONAL LECTURE. STUDENTS ENROLLED IN THE 1 CREDIT VERSION OF THE COURSE WILL PREPARE NOTES FOR ONE LECTURE. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
691O S-TOOLS-EXPL&TUTR SY Woolf	NONE	GRADUATE STUDENTS ONLY.	4 SEATS ARE RESERVED FOR MA EDUC MAJORS. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
691PL S-ADV PGMG LANGS Guha	NONE	MS-CMPSCI GRADUATE STUDENTS ONLY.	PERMISSION OF INSTRUCTOR REQUIRED. STUDENTS MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
691SE S-SE SOCIETAL IMPACT & ETHICS Osterweil	NONE	CS GRADUATE STUDENTS ONLY.	STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
697L S-DEEP LEARNING Learned-Miller	NONE	<i>CMPSCI GRADUATE STUDENTS ONLY.</i>	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. 10 SEATS HELD FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
701 ADV TOPICS IN CMPSCI STAFF	NONE	CMPSCI DOCTORAL, MASTERS STUDENTS ONLY.	REQUEST OVERRIDE VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
891M THRY OF CMPTN Mazumdar	NONE	DOCTORAL, MASTERS 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: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .

**SPIRE REGISTRATION INFORMATION for Fall 2016**

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<b>899</b> PH D DISSERTATION STAFF	NONE	NONE	COURSE OPEN ONLY TO CS GRADUATE STUDENTS WHO HAVE PASSED PORTFOLIO. REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
<b>CICS 191CICS1</b> FYS - CICS Wemhoener	NONE	FIRST-YEAR CICS STUDENTS ONLY.	SECTIONS 01, 03, 05, 07 WILL ADDRESS 'BIG DATA': THE WAYS IN WHICH THE COLLECTION AND ANALYSIS OF DATA ON A LARGE SCALE AFFECTS OUR LIVES. SECTIONS 02, 04, 06, AND 08 WILL ADDRESS 'STATISTICAL LEARNING': USING AND UNDERSTANDING A SET OF TOOLS FOR MODELING AND UNDERSTANDING COMPLEX DATA SETS. SECTIONS 09, 10 ARE ENTITLED 'DREAM BIG' AND WILL FEATURE DISCUSSION OF IDEAS, DECISIONS, AND PIONEERS THAT HISTORICALLY SHAPED COMPUTING, WITH PERSPECTIVES ON HOW WE MIGHT SHAPE THE FUTURE. SECTION 11 WILL EXPLORE THE PHILOSOPHY OF ARTIFICIAL INTELLIGENCE AND THE THEORY OF CONSCIOUSNESS, THROUGH READINGS, DISCUSSION, AND OTHER ACTIVITIES. ADDITIONAL SECTIONS ON OTHER TOPICS MAY BE ADDED DURING THE SUMMER. REGISTRATION AVAILABLE ONLY DURING SUMMER ORIENTATION.
<b>CICS 191CICS2</b> FYS - CICS EXPLORATORY RAP Boisseau	NONE	CICS EXPLORATORY FIRST YEAR STUDENTS ONLY.	COMPUTING AND INFORMATICS EXPLORATORY RAP FIRST YEAR STUDENTS ONLY. REGISTRATION AVAILABLE ONLY DURING SUMMER ORIENTATION.
<b>CICS 191CMPS2</b> FYS - CS MAJOR RAP Barrington	NONE	CS RAP MAJORS ONLY.	CMPSCI RAP FIRST YEAR PROGRAM STUDENTS ONLY. REGISTRATION AVAILABLE ONLY DURING SUMMER ORIENTATION.
<b>CICS 596T</b> IS-CPT STAFF	NONE	PHD-CMPSCI STUDENTS ONLY.	SUBMIT CPT APPLICATION TO GRADUATE PROGRAM MANAGER, CS MAIN OFFICE.
<b>INFO 150</b> MATH FOUND-INFORMATICS Barrington	NONE	NON-CS AND NON-MATH UNDERGRADUATE MAJORS ONLY.	CS AND MATH MAJORS ARE NOT ELIGIBLE FOR THIS COURSE. R1 MATH USEFUL; NOT ABSOLUTELY REQUIRED. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
<b>INFO 190IN</b> INTRO TO INFORMATICS Trim	NONE	NON-CS MAJORS ONLY.	CS MAJORS ARE NOT ELIGIBLE FOR THIS COURSE. FOUNDATIONS COURSE FOR THE INFORMATICS MAJOR (BDIC). STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .
<b>INFO 190INISH</b> INTRO TO INFORMATICS (HNRSIND) Trim	NONE	NON-CS MAJORS ONLY.	CS MAJORS ARE NOT ELIGIBLE FOR THIS COURSE. FOUNDATIONS COURSE FOR THE INFORMATICS MAJOR (BDIC). STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cics.umass.edu/overrides">https://www.cics.umass.edu/overrides</a> .