

**SPIRE REGISTRATION INFORMATION for Spring 2016**

	<u>CATALOG REQUISITE (PRE-REQ CHECK):</u>	<u>CLASS ASSOCIATED REQ (ELIG RESTRICTIONS):</u>	<u>CLASS NOTES/COMMENTS:</u>
<div style="border: 1px solid black; padding: 5px;"> <b>105</b> Verts                      CMPTR LTRCY                 </div>	NONE	NON-CS MAJORS ONLY.	<p><b>INFORMATIONAL ONLY - DOES NOT AFFECT SPIRE ENROLLMENT.</b></p> <p>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.cs.umass.edu/overrides">https://www.cs.umass.edu/overrides</a>.</p> <p>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>.</p> <p>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.cs.umass.edu/overrides">https://www.cs.umass.edu/overrides</a>.</p> <p>NOT FOR MAJOR CREDIT. 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>.</p> <p>A GRADE OF B OR BETTER IN COMPSCI 121 IS HIGHLY RECOMMENDED FOR STUDENTS ENROLLING IN COMPSCI 187. 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.cs.umass.edu/overrides">https://www.cs.umass.edu/overrides</a>.</p> <p>STUDENTS WHO HAVE TAKEN COMPSCI 230 ARE NOT ELIGIBLE FOR THIS COURSE. INSTRUCTOR CONSENT TO ADD BEGINNING 1/29. INSTRUCTOR CONSENT TO DROP OR WITHDRAW THROUGH 2/5 ONLY. COURSE RUNS FOR 6 WEEKS (1/27, 2/3, 2/10, 2/17, 2/24, 3/2). 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>. 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.cs.umass.edu/overrides">https://www.cs.umass.edu/overrides</a>.</p> <p>INSTRUCTOR CONSENT TO ADD BEGINNING 1/29. INSTRUCTOR CONSENT TO DROP OR WITHDRAW THROUGH 2/5. COURSE RUNS FOR 6 WEEKS (1/27, 2/1, 2/3, 2/8, 2/10, 2/16-MONDAY CLASS SCHEDULE, 2/17, 2/22, 2/24, 2/29, 3/2, 3/7). 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.cs.umass.edu/overrides">https://www.cs.umass.edu/overrides</a>.</p> <p>STUDENTS WHO ARE ENROLLED IN OR HAVE TAKEN COMPSCI 326 ARE NOT ELIGIBLE FOR THIS COURSE. INSTRUCTOR CONSENT TO ADD BEGINNING 1/30. INSTRUCTOR CONSENT TO DROP OR WITHDRAW THROUGH 2/5. COURSE RUNS FOR 6 WEEKS (1/28, 2/4, 2/11, 2/18, 2/25, 3/3). 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.cs.umass.edu/overrides">https://www.cs.umass.edu/overrides</a>.</p> <p>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.cs.umass.edu/overrides">https://www.cs.umass.edu/overrides</a>.</p> <p>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.cs.umass.edu/overrides">https://www.cs.umass.edu/overrides</a>.</p>
<div style="border: 1px solid black; padding: 5px;"> <b>119</b> Verts                      INTRO PROGRAMMING                 </div>	NONE	NON-CS MAJORS ONLY.	
<div style="border: 1px solid black; padding: 5px;"> <b>121</b> Anderson                      PRBLM SLVNG W/CMPTRS                 </div>	NONE	UNDERGRADUATE STUDENTS ONLY.	
<div style="border: 1px solid black; padding: 5px;"> <b>145</b> Verts                      REP,STORNG&amp;RET INFO                 </div>	R1.	NON-CS MAJORS ONLY.	
<div style="border: 1px solid black; padding: 5px;"> <b>187</b> Corner                      PGMG W/DATA STRCTRS                 </div>	COMPSCI 121 WITH A GRADE OF 'C' OR BETTER.	UNDERGRADUATE CS MAJORS ONLY.	
<div style="border: 1px solid black; padding: 5px;"> <b>197C</b> Scarrci                      ST-PGMG IN C                 </div>	COMPSCI 187 (OR E&C-ENG 242) WITH A GRADE OF 'C' OR BETTER.	CS MAJORS ONLY.	
<div style="border: 1px solid black; padding: 5px;"> <b>197U</b> Foley                      ST-HANDS-ON INTRO UNIX                 </div>	NONE	CS MAJORS ONLY.	
<div style="border: 1px solid black; padding: 5px;"> <b>197WP</b> Scarrci                      ST-INTRO TO HTML/CSS                 </div>	COMPSCI 121 WITH A GRADE OF 'C' OR BETTER.	CS MAJORS ONLY.	
<div style="border: 1px solid black; padding: 5px;"> <b>220</b> Guha                      PGMG METHODOLOGY                 </div>	COMPSCI 187 (OR E&C-ENG 242) WITH A GRADE OF 'C' OR BETTER.	CS MAJORS ONLY.	
<div style="border: 1px solid black; padding: 5px;"> <b>230</b> Ridgway, Li                      CMPTR SYS PRINC                 </div>	COMPSCI 187 (OR E&C-ENG 242) WITH GRADE OF 'C' OR BETTER.	CS MAJORS ONLY.	

## SPIRE REGISTRATION INFORMATION for Spring 2016

	<u>CATALOG REQUISITE (PRE-REQ CHECK):</u>	<u>CLASS ASSOCIATED REQ (ELIG RESTRICTIONS):</u>	<u>CLASS NOTES/COMMENTS:</u>
<b>240</b> Saha, McGregor RSNQ UNDER UNCERTAINTY	COMPSCI 187 (OR E&C-ENG 242) AND MATH 132 WITH A GRADE OF 'C' OR BETTER.	CS MAJORS ONLY.	<b>INFORMATIONAL ONLY - DOES NOT AFFECT SPIRE ENROLLMENT.</b> 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.cs.umass.edu/overrides">https://www.cs.umass.edu/overrides</a> .
<b>250</b> Barrington INTRD TO CMPTN	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.cs.umass.edu/overrides">https://www.cs.umass.edu/overrides</a> .
<b>290NW</b> Liberatore A NETWORKED WORLD	NONE	NON-CS MAJORS ONLY.	NOT INTENDED FOR CS MAJORS OR MINORS. 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>305</b> Trim SOC ISS IN CMPTNG	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> Sitaraman INTRD TO ALGRTHMS	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.cs.umass.edu/overrides">https://www.cs.umass.edu/overrides</a> .
<b>320</b> Ridgway INTRD TO SFTWR ENGG	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: <a href="https://www.cs.umass.edu/overrides">https://www.cs.umass.edu/overrides</a> .
<b>326</b> Richards WEB PGMG	COMPSCI 220 (OR COMPSCI 230) WITH A GRADE OF 'C' OR BETTER.	SOPHOMORE, 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.cs.umass.edu/overrides">https://www.cs.umass.edu/overrides</a> .
<b>326HH</b> Richards WEB PGMG (W/COLLOQ)	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. 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.cs.umass.edu/overrides">https://www.cs.umass.edu/overrides</a> .
<b>335</b> Weems INSIDE BOX:HOW CMPTRS WORK	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.cs.umass.edu/overrides">https://www.cs.umass.edu/overrides</a> .
<b>335HH</b> Weems INSIDE BOX:HOW CMPS WORK	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.cs.umass.edu/overrides">https://www.cs.umass.edu/overrides</a> .
<b>348</b> Jensen INTRO KNWLDG DISCVRY	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: <a href="https://www.cs.umass.edu/overrides">https://www.cs.umass.edu/overrides</a> .
<b>370</b> Maji INTRO TO CMPTR VISION	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: <a href="https://www.cs.umass.edu/overrides">https://www.cs.umass.edu/overrides</a> .

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<b>370HH</b> Maji INTRO CMPTR VISION (W/COLLOQ)	COMPSCI 240 OR COMPSCI 383 WITH A GRADE OF 'C' OR BETTER.	OPEN TO SENIOR, JUNIOR, AND SOPHOMORE COMMONWEALTH HONORS COLLEGE CS MAJORS ONLY.	<b>INFORMATIONAL ONLY - DOES NOT AFFECT SPIRE ENROLLMENT.</b> HONORS COLLOQUIUM INCLUDED. 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>373</b> Kalogerakis INTRO TO CMPTR GRPHCS	COMPSCI 187 (OR E&C-ENG 242) AND COMPSCI 190DM (OR MATH 235 OR COMPSCI 240) BOTH WITH A GRADE OF 'C' OR BETTER.	CS MAJORS ONLY.	CHANGED FROM 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: <a href="https://www.cs.umass.edu/overrides">https://www.cs.umass.edu/overrides</a> .
<b>373HH</b> Kalogerakis INTRO CMPTR GRPHCS	COMPSCI 187 (OR E&C-ENG 242) AND COMPSCI 190DM (OR MATH 235 OR COMPSCI 240) BOTH WITH A GRADE OF 'C' OR BETTER.	OPEN TO SENIOR, JUNIOR, AND SOPHOMORE COMMONWEALTH HONORS COLLEGE CS MAJORS ONLY.	HONORS COLLOQUIUM INCLUDED. 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: <a href="https://www.cs.umass.edu/overrides">https://www.cs.umass.edu/overrides</a> .
<b>377</b> Richards OPRTRNG SYSS	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.cs.umass.edu/overrides">https://www.cs.umass.edu/overrides</a> .
<b>383</b> Taylor ARTFCL INTLLGNC	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.cs.umass.edu/overrides">https://www.cs.umass.edu/overrides</a> .
<b>397F</b> Anderson ST-INTRO TO DATA SCIENCE	COMPSCI 190IN AND (COMPSCI 119 OR COMPSCI 121) WITH A GRADE OF 'C' OR BETTER.	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 ( <a href="https://www.r-project.org/">HTTPS://WWW.R-PROJECT.ORG/</a> ). STUDENTS NOT MEETING PREREQUISITES WHO ARE INTERESTED IN THE INFORMATICS PROGRAM (BDIC), MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cs.umass.edu/overrides">https://www.cs.umass.edu/overrides</a> .
<b>397G</b> Newman ST-CREATIVE GAME DESIGN&DEV	COMPSCI 190IN OR COMPSCI 190DM WITH A GRADE OF 'C' OR BETTER.	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: <a href="https://www.cs.umass.edu/overrides">https://www.cs.umass.edu/overrides</a> .
<b>445</b> Miklau INFO SYSS	COMPSCI 220 (OR COMPSCI 230) AND COMPSCI 311, BOTH WITH 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.cs.umass.edu/overrides">https://www.cs.umass.edu/overrides</a> .
<b>445HH</b> Miklau INFO SYSS (W/COLLOQ)	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: <a href="https://www.cs.umass.edu/overrides">https://www.cs.umass.edu/overrides</a> .
<b>446</b> Fisher SEARCH ENGINES	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: <a href="https://www.cs.umass.edu/overrides">https://www.cs.umass.edu/overrides</a> .
<b>453</b> Ridgway CMPTR NTWKS	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.cs.umass.edu/overrides">https://www.cs.umass.edu/overrides</a> .
<b>491G</b> Venkataramani S-CMPTR NTWRKG LAB	COMPSCI 453 WITH A GRADE OF 'C' OR BETTER.	UNDERGRADUATE STUDENTS ONLY.	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>496S</b> Richards INDSTU-SCALABLE WEB SYSTEMS	COMPSCI 230 (OR COMPSCI 220) AND COMPSCI 326, BOTH WITH 'B' OR BETTER.	CS MAJORS ONLY.	ENROLLMENT IN COMPSCI 497S IS REQUIRED. STUDENTS NEEDING INSTRUCTOR PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cs.umass.edu/overrides">https://www.cs.umass.edu/overrides</a> .

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<b>497S</b> Richards ST-SCALABLE WEB SYSTEMS	COMPSCI 230 (OR COMPSCI 220) AND COMPSCI 326, BOTH WITH 'B' OR BETTER.	CS MAJORS ONLY.	<b>INFORMATIONAL ONLY - DOES NOT AFFECT SPIRE ENROLLMENT.</b> STUDENTS NEEDING INSTRUCTOR 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>501</b> Barrington FRML LANG THRY	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. <i>IT IS RECOMMENDED THAT UNDERGRADUATE STUDENTS HAVE A B- OR BETTER IN COMPSCI 311 IN ORDER TO ATTEMPT 501.</i> 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.cs.umass.edu/overrides">https://www.cs.umass.edu/overrides</a> .
<b>520</b> Just S/W ENG: SYNTHESIS	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.	<i>LECT 01 FOR UNDERGRADS; LECT 02 FOR GRADS. 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.cs.umass.edu/overrides">https://www.cs.umass.edu/overrides</a>.</i>
<b>529</b> Ridgway S/W ENG PROJ MGMT	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: <a href="https://www.cs.umass.edu/overrides">https://www.cs.umass.edu/overrides</a> .
<b>535</b> Weems CMPTR ARCHT	UNDERGRADUATES: COMPSCI 391IB/335 WITH A GRADE OF 'C' OR BETTER.	Lect 01: JUNIOR AND SENIOR CS MAJORS ONLY. Lect 02: MS-CMPSCI STUDENTS ONLY.	<i>LECT 01 FOR UNDERGRADS; LECT 02 FOR GRADS. MEETS WITH COMPSCI 635. STUDENTS WHO RECEIVED AN 'A' IN CMPSCI 391IB (COMPSCI 335) MAY CONTACT THE INSTRUCTOR IF THEY ARE INTERESTED IN TAKING COMPSCI 635. 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.cs.umass.edu/overrides">https://www.cs.umass.edu/overrides</a>.</i>
<b>589</b> Marlin MACH LRNG	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.cs.umass.edu/overrides">https://www.cs.umass.edu/overrides</a> .
<b>589 (CPE)</b> Vijaykumar MACH LRNG			
<b>589HH</b> Marlin MACH LRNG (W/COLLOQ)	UNDERGRADUATES: COMPSCI 383 AND MATH 235 WITH A GRADE OF 'C' OR BETTER.	<i>OPEN TO SENIOR, JUNIOR, AND SOPHOMORE COMMONWEALTH HONORS COLLEGE CS MAJORS ONLY.</i>	<i>COMPSCI 589 WITH THE HONORS COLLOQUIUM INCLUDED. 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>.</i>
<b>590CM</b> Hudlicka HUMAN COMPUTER INTERACTION	COMPSCI 187 (OR E&C-ENG 242) AND COMPSCI 220 (OR COMPSCI 230) AND COMPSCI 240 AND COMPSCI 383, ALL WITH A GRADE OF 'C' OR BETTER.	LECT 01: CS MAJORS ONLY. LECT 02: MS-CMPSCI STUDENTS ONLY.	FAMILIARITY WITH AI AND HCI DESIRABLE BUT NOT NECESSARY. NON-CS MAJORS WITH PERMISSION OF INSTRUCTOR. STUDENTS NEEDING INSTRUCTOR 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>590DA</b> Saha ALGRTHMS FOR DATA SCI	UNDERGRADUATES: COMPSCI 311 AND COMPSCI 240, BOTH 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. 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>591NR</b> Siegelmann S-NEURAL NTRKS-AN INTRO	UNDERGRADUATES: COMPSCI 311 WITH A GRADE OF 'C' OR BETTER.	LECT 01: UNDERGRADUATES ONLY. LECT 02: MS-CMPSCI STUDENTS ONLY.	LECT 01 FOR UNDERGRADS; LECT 02 FOR GRADS. MEETS WITH COMPSCI 691NR. STUDENTS NEEDING INSTRUCTOR 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>591SP</b> Levine S-MULTIDISCIPLNRY STDY-	UNDERGRADUATES: COMPSCI 460 OR COMPSCI 453 WITH A 'C' OR BETTER.	Lect 01: JUNIOR AND SENIOR CS MAJORS ONLY. Lect 02: MS-CMPSCI STUDENTS ONLY.	<i>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: <a href="https://www.cs.umass.edu/overrides">https://www.cs.umass.edu/overrides</a>.</i>
<b>596T</b> STAFF IS-CPT	NONE	PHD-CMPSC STUDENTS ONLY.	SUBMIT CPT APPLICATION TO GRADUATE PROGRAM MANAGER, CS MAIN OFFICE.

## SPIRE REGISTRATION INFORMATION for Spring 2016

		<u>CATALOG REQUISITE (PRE-REQ CHECK):</u>	<u>CLASS ASSOCIATED REQ (ELIG RESTRICTIONS):</u>	<u>CLASS NOTES/COMMENTS:</u>
601	Immerman	NONE	CMPSCI GRADUATE STUDENTS ONLY.	<p><b>INFORMATIONAL ONLY - DOES NOT AFFECT SPIRE ENROLLMENT.</b></p> <p>PREREQUISITES: AN UNDERGRADUATE COURSE IN AUTOMATA THEORY AND FORMAL LANGUAGES SUCH AS <i>COMPSCI 501</i> OR PERMISSION OF INSTRUCTOR. UNDERGRADUATES WITH PERMISSION OF INSTRUCTOR. 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>.</p> <p>UNDERGRADUATES WITH PERMISSION OF INSTRUCTOR. 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>.</p> <p>MEETS WITH COMPSCI 520. PREREQUISITE OF COMPSCI 320 WITH A GRADE OF 'C' OR BETTER REQUIRED FOR SENIORS, OR PERMISSION OF INSTRUCTOR. 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>.</p> <p>STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cs.umass.edu/ugrad-education/course">https://www.cs.umass.edu/ugrad-education/course</a></p> <p>MEETS WITH COMPSCI 535. 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: <a href="https://www.cs.umass.edu/overrides">https://www.cs.umass.edu/overrides</a>.</p> <p>UNDERGRADUATES WITH PERMISSION OF INSTRUCTOR. PREREQUISITE: ANY COURSE IN PROBABILITY AND STATISTICS. COURSE NUMBER CHANGED FROM COMPSCI 691GG TO COMPSCI 650. 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>.</p> <p>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: <a href="https://www.cs.umass.edu/overrides">https://www.cs.umass.edu/overrides</a>.</p> <p>STUDENTS WHO HAVE TAKEN AN UNDERGRADUATE AI COURSE PREFERRED. 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>.</p> <p>COURSE NUMBER CHANGED FROM COMPSCI 691GM TO COMPSCI 688. 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>.</p> <p><i>SOME LEVEL OF MATHEMATICAL MATURITY, SUCH AS EXPOSURE TO UNDERGRADUATE LEVEL CALCULUS AND LINEAR ALGEBRA, IS DESIRABLE. STUDENTS ARE EXPECTED TO BE FAMILIAR WITH A HIGH-LEVEL PROGRAMMING LANGUAGE. 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>.</i></p> <p>FIRST YEAR GRADUATE STUDENTS WISHING TO TAKE THIS COURSE SHOULD CONTACT INSTRUCTOR. 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>.</p> <p>MEETS WITH COMPSCI 591NR. UNDERGRADUATE COURSE IN ALGORITHMS EQUIVALENT TO COMPSCI 311 IS ASSUMED. STUDENTS NEEDING INSTRUCTOR PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: <a href="https://www.cs.umass.edu/overrides">https://www.cs.umass.edu/overrides</a>.</p> <p>REQUEST OVERRIDE VIA THE ON-LINE FORM: <a href="https://www.cs.umass.edu/overrides">https://www.cs.umass.edu/overrides</a>.</p> <p>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>.</p>
CMPTN THRY				
603	Biswas	NONE	CMPSCI GRADUATE STUDENTS ONLY.	
ROBOTICS				
620	Just	NONE	GRADUATE CMPSCI STUDENTS ONLY.	
ADV S/WENG:SYNTHESIS				
631	Guha	NONE	CMPSCI GRADUATE STUDENTS ONLY.	
PGMG LANGS				
635	Weems	NONE	CMPSCI GRADUATE STUDENTS ONLY.	
MDRN CMPTR ARCHT				
650	Mazumdar	NONE	CMPSCI GRADUATE STUDENTS ONLY.	
APPLIED INFO THEORY				
677	Shenoy	NONE	CMPSCI GRADUATE STUDENTS ONLY.	
OPRTNG SYSS				
683	Zilberstein	NONE	CMPSCI GRADUATE STUDENTS ONLY.	
ARTFCL INTLLGNC				
688	O'Connor	NONE	CMPSCI GRADUATE STUDENTS ONLY.	
GRAPHICAL MODELS				
690OP	Mahadevan	NONE	CMPSCI GRADUATE STUDENTS ONLY.	
OPTIMIZATION IN CS				
691DD	Berger	NONE	CMPSCI GRADUATE STUDENTS ONLY.	
S-RSRCH MTHDS-EMPRCL CS				
691NR	Siegelmann	NONE	NONE	
S-NEURAL NTRKS-AN INTRO				
701	STAFF	NONE	DOCTORAL, MASTERS STUDENTS ONLY.	
ADV TOPICS IN CMPSCI				
791DM	** DELETED	NONE	GRADUATE STUDENTS ONLY.	
S-BLDG DEEP MIND IN 21ST C				

**SPIRE REGISTRATION INFORMATION for Spring 2016**

**CATALOG REQUISITE (PRE-REQ CHECK):**

891M Saha  
THRY OF CMPTN

NONE

899 STAFF  
PH D DISSERTATION

NONE

**CLASS ASSOCIATED REQ (ELIG RESTRICTIONS):**

DOCTORAL, MASTERS MAJORS ONLY.

NONE

**CLASS NOTES/COMMENTS:**

***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.cs.umass.edu/overrides>.

COURSE OPEN ONLY TO CS GRADUATE STUDENTS WHO HAVE PASSED PORTFOLIO. REQUEST OVERRIDES VIA THE ON-LINE FORM: <https://www.cs.umass.edu/overrides>.