	CATALOG REQUISITE (PRE-REQ CHECK):	CLASS ASSOCIATED REQ (ELIG RESTRICTIONS):	CLASS NOTES/COMMENTS: *INFORMATIONAL ONLY - DOES NOT AFFECT SPIRE ENROLLMENT.*
105 Verts CMPTR LTRCY	NONE	NON-CMPSCI MAJORS ONLY.	ATTENDING THE FIRST LECTURE IS MANDATORY. ALL STUDENTS MUST HAVE ACCESS TO A COMPUTER FOR PERFORMING ASSIGNMENTS. COMPUTER MUST RUN WINDOWS XP, WINDOWS VISTA, WINDOWS 7, OR WINDOWS 8, WITH A RECENT VERSION OF MICROSOFT OFFICE (NOTHING EARLIER THAN MICROSOFT OFFICE 2003). MACINTOSH WITH OFFICE 2011 ALLOWED, BUT OFFICE 2008 NOT RECOMMENDED (NOT ALL ASSIGNMENTS CAN BE PERFORMED ON A MAC). STUDENTS WITHOUT THEIR OWN COMPUTER MAY USE CAMPUS PC LABS. PLEASE CHECK 105 WEBSITE. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/overrides.
119 Verts INTRO PROGRAMMING	NONE	NON-CMPSCI MAJORS ONLY.	STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/overrides.
120 Verts PRBLM SLVNG W/INTRNT	NONE	NON-CMPSCI MAJORS ONLY.	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: https://www.cs.umass.edu/overrides.
121 Anderson, Moll PRBLM SLVNG W/CMPTRS	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: https://www.cs.umass.edu/overrides.
187 Barrington PGMG W/DATA STRCTRS	CMPSCI 121 WITH A GRADE OF 'C' OR BETTER.	UNDERGRADUATE CMPSCI 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: https://www.cs.umass.edu/overrides.
190DM Barrington MATH FOUND-INFORMATICS	NONE	NON-CMPSCI AND NON-MATH *UNDERGRADUATE* MAJORS ONLY.	R1 MATH USEFUL; NOT ABSOLUTELY REQUIRED. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/overrides.
190IN Verts, Trim INTRO TO INFORMATICS	NONE	NON-CMPSCI MAJORS ONLY.	*FOUNDATIONS COURSE FOR THE INFORMATICS MAJOR (BDIC). STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/overrides.*
191A Barrington, Moll CMPSCI MAJORS RAP SEM	NONE	CMPSCI RAP MAJORS ONLY.	CMPSCI RAP FIRST YEAR PROGRAM STUDENTS ONLY. REGISTRATION AVAILABLE ONLY DURING SUMMER ORIENTATION.
197B Anderson, Moll ST-ADV ASSIGN FOR 121	NONE	UNDERGRADUATES ONLY.	MUST BE ENROLLED IN CMPSCI 121 CONCURRENTLY. STUDENTS NEEDING PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/overrides.
197C Scarrci ST-PGMG IN C	CMPSCI 187 (OR E&C-ENG 242) WITH A GRADE OF 'C' OR BETTER.	CMPSCI MAJORS ONLY.	INSTRUCTOR CONSENT TO ADD BEGINNING 9/12. INSTRUCTOR CONSENT TO DROP OR WITHDRAW THROUGH 9/18 ONLY. COURSE RUNS FOR 6 WEEKS (LECT 01: 9/10, 9/17, 9/24, 10/1, 10/8, AND 10/15; LECT 02: 9/8, 9/15, 9/22, 9/29, 10/6, 10/14-MONDAY CLASS SCHEDULE). STUDENTS WHO HAVE TAKEN CMPSCI 230 ARE NOT ELIGIBLE FOR THIS COURSE. CS MINORS AND APPLICANTS-ON-CONTRACT NOT MEETING ELIGIBILITY, OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/overrides.
197U DeVaughn-Brown ST-HANDS-ON INTRO UNIX	NONE	CMPSCI MAJORS ONLY.	INSTRUCTOR CONSENT TO ADD BEGINNING 9/12. INSTRUCTOR CONSENT TO DROP OR WITHDRAW THROUGH 9/18. COURSE RUNS FOR 6 WEEKS (9/9/14-10/21/14; NO CLASS ON 10/14). CS MINORS AND APPLICANTS-ON-CONTRACT NOT MEETING ELIGIBILITY, OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/overrides.
197WP Scarrci ST-INTRO TO HTML/CSS	CMPSCI 121 WITH A GRADE OF 'C' OR BETTER.	CMPSCI MAJORS ONLY.	STUDENTS WHO ARE ENROLLED IN OR HAVE TAKEN CMPSCI 326 ARE NOT ELIGIBLE FOR THIS COURSE. INSTRUCTOR CONSENT TO ADD BEGINNING 9/12. INSTRUCTOR CONSENT TO DROP OR WITHDRAW THROUGH 9/18. COURSE RUNS FOR 6 WEEKS (9/9/14-10/21/14; NO CLASS ON 10/14). CS MINORS AND APPLICANTS-ON-CONTRACT NOT MEETING ELIGIBILITY, OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/overrides.

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220 Guha, Richards PGMG METHODOLOGY	CMPSCI 187 (OR E&C-ENG 242) WITH A GRADE OF 'C' OR BETTER.	CMPSCI 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.cs.umass.edu/overrides.
230 Richards, Chaganti CMPTR SYS PRINC	CMPSCI 187 (OR E&C-ENG 242) WITH GRADE OF 'C' OR BETTER.	CMPSCI 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.cs.umass.edu/overrides.
240 Jensen RSNG UNDER UNCERTAINTY	CMPSCI 187 (OR E&C-ENG 242) AND MATH 132 WITH A GRADE OF 'C' OR BETTER.	CMPSCI 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.cs.umass.edu/overrides.
250 Immerman INTRD TO CMPTN	MATH 132 AND CMPSCI 187 (OR E&C-ENG 242) WITH GRADE OF 'C' OR BETTER.	CMPSCI, MATH, AND CSENG MAJORS ONLY.	STUDENTS WHO HAVE COMPLETED CMPSCI 187 OR EQUIVALENT WITH A GRADE OF 'C' OR BETTER AND HAVE A CO-REQUISITE OF MATH 132 MAY REQUEST OVERRIDE (IF SEATS AVAILABLE). 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.cs.umass.edu/overrides.
290NW Liberatore A NETWORKED WORLD	NONE	NON-CMPSCI MAJORS ONLY. NOT INTENDED FOR CS MINORS.	NOT INTENDED FOR CMPSCI MAJORS OR MINORS. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/overrides.
305 Trim SOC ISS IN CMPTNG	ENGLWRIT 112 WITH GRADE OF 'C' OR BETTER.	JUNIOR AND SENIOR CMPSCI MAJORS ONLY.	SATISFIES JUNIOR YEAR WRITING REQUIREMENT. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/overrides.
311 Siegelmann INTRD TO ALGRTHMS	CMPSCI 250 (OR MATH 455) WITH GRADE OF 'C' OR BETTER.	CMPSCI 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.cs.umass.edu/overrides.
320 Anderson INTRD TO SFTWR ENGG	CMPSCI 220 WITH GRADE OF 'C' OR BETTER.	SOPHOMORE, JUNIOR AND SENIOR CMPSCI MAJORS ONLY.	SATISFIES INTEGRATIVE EXPERIENCE REQUIREMENT FOR CMPSCI MAJORS. CSENG MAJORS WILL BE ADMITTED ONLY IF SPACE ALLOWS. MEETS WITH CMPSCI 529. AN OPTIONAL HONORS COLLOQUIUM 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: https://www.cs.umass.edu/overrides.
325 Hudlicka USABILITY	NONE	NONE	25 SEATS RESERVED FOR CS MAJORS. INFORMATICS (BDIC) MAJORS SHOULD REQUEST AN OVERRIDE. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/overrides.
326 Richards WEB PGMG	CMPSCI 187 (OR E&C-ENG 242) WITH A GRADE OF 'C' OR BETTER.	SOPHOMORE, JUNIOR AND SENIOR CMPSCI MAJORS ONLY.	SATISFIES INTEGRATIVE EXPERIENCE REQUIREMENT FOR CMPSCI MAJORS. 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.cs.umass.edu/overrides.
345 Meliou PRACT & APPLICS OF DATA MGMT	CMPSCI 187 (OR E&C-ENG 242) WITH A GRADE OF 'C' OR BETTER.	NONE	20 SEATS ARE RESERVED FOR JUNIORS, SOPHOMORES, AND FRESHMEN. STUDENTS ARE EXPECTED TO HAVE BASIC PROGRAMMING SKILLS, AND BE ABLE TO OCCASIONALLY USE LAPTOPS IN CLASS. STUDENTS WHO HAVE TAKEN CMPSCI 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: https://www.cs.umass.edu/overrides. COURSE NUMBER CHANGED FROM 390DB TO 345.

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377 Shenoy OPRTNG SYSS	CMPSCI 230 WITH A GRADE OF 'C' OR BETTER.	CMPSCI 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.cs.umass.edu/overrides.
383 Liberatore ARTFCL INTLLGNC	CMPSCI 220 (OR CMPSCI 230) AND CMPSCI 240, BOTH WITH GRADE OF 'C' OR BETTER.	JUNIOR AND SENIOR CMPSCI 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.cs.edu/overrides.
390MB Ganesan MOBILE HLTH SENSING&MONITORING	CMPSCI 187 (OR E&C-ENG 242) WITH A GRADE OF 'C' OR BETTER.	CMPSCI MAJORS ONLY.	CMPSCI MINORS, APPLICANTS-ON-CONTRACT, AND OTHERS NOT MEETING ELIGIBILITY, OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/overrides.
391IB Weems S-HOW COMPUTERS WORK	CMPSCI 220 (OR CMPSCI 230) WITH A GRADE OF 'C' OR BETTER.	SENIOR, JUNIOR, SOPHOMORE CMPSCI MAJORS ONLY.	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.cs.umass.edu/overrides.
391LI Levine S-CMPTR CRIME LAW:INVSTG/PRVCY	CMPSCI 230 AND ENGLWRIT 112 WITH A GRADE OF 'C' OR BETTER, OR CW G.ED. REQUIREMENT.	JUNIOR AND SENIOR CMPSCI 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.cs.umass.edu/overrides.
403 Grupen INTRO TO ROBOTICS	MATH 235 (OR MATH 236) AND CMPSCI 220 (OR CMPSCI 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: https://www.cs.umass.edu/overrides.
410 Moss CMPLR TCHNQS	CMPSCI 250 (OR MATH 455) AND CMPSCI 377, ALL WITH A GRADE OF 'C' OR BETTER.	NONE	MEETS WITH CMPSCI 610. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/overrides.
453 Venkataramani CMPTR NTWKS	CMPSCI 230 (OR CMPSCI 377) AND CMPSCI 240 (OR STATISTCS 515), BOTH WITH A GRADE OF 'C' OR BETTER.	NONE	STUDENTS WHO ARE NOT CMPSCI MAJORS BUT HAVE SUFFICIENT PROGRAMMING EXPERIENCE, CMPSCI GRADUATE STUDENTS, OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/overrides.
460 Misra CMPTR & NTWRK SCRTY	CMPSCI 377 WITH GRADE OF 'C' OR BETTER.	JUNIOR AND SENIOR CMPSCI MAJORS ONLY.	CMPSCI GRADUATE STUDENTS, OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/overrides.
491IP Weems S-PGMG THE IPHONE AND IPAD	CMPSCI 320 WITH A GRADE OF 'C' OR BETTER.	CMPSCI 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. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/overrides.
521 Brun S/W ENG: ANALYSIS	UNDERGRADUATES: CMPSCI 320 WITH GRADE OF 'C' OR BETTER.	Lect 01: SENIOR, JUNIOR CMPSCI MAJORS ONLY. Lect 02: MS-CMPSC GRADUATE STUDENTS ONLY.	MEETS WITH CMPSCI 621. LECT 01=UG; LECT 02=GRADS. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/overrides.
529 Anderson S/W ENG PROJ MGMT	CMPSCI 320 WITH A GRADE OF 'A-' OR BETTER.	NONE	MEETS WITH CMPSCI 320. STUDENTS NEEDING INSTRUCTOR PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/overrides.
575 Moll CMBNTRCS & GRPH THRY	CMPSCI 250 (OR MATH 455) WITH A GRADE OF 'B' OR BETTER.	Lect 01: UNDERGRADUATES ONLY. Lect 02: MS-CMPSC 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: https://www.cs.umass.edu/overrides.
585 O'Connor INTRD TO NLP	UNDERGRADUATES: CMPSCI 220 (OR CMPSCI 230) WITH A GRADE OF 'C' OR BETTER.	Lect 01: UNDERGRADUATES ONLY. Lect 02: MS-CMPSC GRADUATE STUDENTS ONLY.	LECT 01=UG; LECT 02=GRADS. LINGUISTICS MAJORS WITH SOME PROGRAMMING EXPERIENCE WILL LIKELY BE ADMITTED AND ENCOURAGED TO CONTACT INSTRUCTOR. STUDENTS NEEDING INSTRUCTOR PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/overrides.
610 Moss CMPLR TCHNQS	NONE	CMPSCI GRADUATE STUDENTS ONLY.	SENIOR CMPSCI MAJORS MAY TAKE FOR CREDIT IF PREREQUISITES FOR CMPSCI 410 ARE MET WITH PERMISSION OF INSTRUCTOR. MEETS WITH CMPSCI 410. 5 SEATS HELD FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/overrides.

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611 Sitaraman ADV ALGRMS	NONE	CMPSCI 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: https://www.cs.umass.edu/overrides.
621 Brun ADV S/WENG:ANALYSIS	NONE	CMPSCI GRADUATE STUDENTS ONLY.	MEETS WITH CMPSCI 521. 7 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.cs.umass.edu/overrides.
630 Berger SYSTEMS	NONE	CMPSCI GRADUATE STUDENTS ONLY.	CHANGED FROM CMPSCI 691ST TO CMPSCI 630. 10 SEATS HELD FOR INCOMING STUDENT REGISTRATION. SENIOR CMPSCI 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.cs.umass.edu/overrides.
646 Allan INFO RTRVL	NONE	CMPSCI GRADUATE STUDENTS ONLY.	PERMISSION OF INSTRUCTOR FOR SENIOR CMPSCI MAJORS WHO MEET THE PREREQUISITE OF CMPSCI 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: https://www.cs.umass.edu/overrides.
650 Learned-Miller APPLIED INFO THEORY	NONE	CMPSCI GRADUATE STUDENTS ONLY.	UNDERGRADUATES WITH PERMISSION OF INSTRUCTOR. PREREQUISITE: ANY COURSE IN PROBABILITY AND STATISTICS. COURSE NUMBER CHANGED FROM CMPSCI 691GG TO CMPSCI 650. 15 SEATS HELD FOR INCOMING STUDENT REGISTRATION.STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/overrides.
653 Kurose CMPTR NTWKING	NONE	CMPSCI GRADUATE STUDENTS ONLY.	15 SEATS HELD FOR INCOMING STUDENT REGISTRATION. ECE GRADUATE STUDENTS IF AVAILABLE SEATS. CMPSCI AND CSENG MAJORS MEETING PREREQUISITE OF CMPSCI 453 AND CMPSCI 311 WITH A 'C' OR BETTER, OR STUDENTS NEEDING INSTRUCTOR PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/overrides.
670 Maji CMPTR VISION	NONE	CMPSCI GRADUATE STUDENTS ONLY.	PREREQUISITES ARE LINEAR ALGEBRA, CALCULUS 1 AND 2, MULTI-VARIATE CALCULUS OR PERMISSION OF INSTRUCTOR. STATS515 OR PERMISSION OF INSTRUCTOR. ADVANCED UNDERGRADUATES WITH PERMISSION OF INSTRUCTOR. *STUDENTS NEEDING INSTRUCTOR PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/overrides. NUMBER CHANGED FROM CMPSCI 691A TO CMPSCI 670.*
683 Zilberstein ARTFCL INTLLGNC	NONE	CMPSCI GRADUATE STUDENTS ONLY.	STUDENTS WHO HAVE TAKEN AN UNDERGRADUATE AI COURSE PREFERRED. 25 SEATS HELD FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/overrides.
689 ** DELETED MACH LRNG	NONE	CMPSCI GRADUATE STUDENTS ONLY.	PERMISSION OF INSTRUCTOR FOR CMPSCI MAJORS MEETING THE PREREQUISITE OF MATH 132 AND MATH 235, AND EITHER STATISTCS 515 OR 607 OR 608. 25 SEATS HELD FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/overrides.
690IV Kalogerakis INTELLIGENT VISUAL CMPTNG	NONE	CMPSCI GRADUATE STUDENTS ONLY.	NO PREREQ FOR CS GRADS. FOR OTHERS, REQUIRED PREREQS OR EQUIV: CMPSCI 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: https://www.cs.umass.edu/overrides.
690PE Towsley PERFORMANCE EVAL	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: https://www.cs.umass.edu/overrides.
691O Woolf S-TOOLS-EXPL&TUTR SY	NONE	GRADUATE STUDENTS ONLY.	4 SEATS ARE RESERVED FOR MA EDUC MAJORS. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/overrides.

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691PT Houmansadr S-HOT TPCS-PRVCY ENHNCG TECH	NONE	CMPSCI GRADUATE STUDENTS ONLY.	THE CLASS WILL MEET WEEKLY. STUDENTS ARE ASKED TO READ AND REVIEW TWO PAPERS PER WEEK. EVERY STUDENT IS ALSO REQUIRED TO PRESENT TWO PAPERS TO THE CLASS DURING THE SEMESTER (THE ACTUAL NUMBER DEPENDS ON THE CLASS ENROLLMENT). ADDITIONALLY, STUDENTS WHO REGISTER FOR 3 CREDIT HOURS ARE REQUIRED TO WORK WITH THE INSTRUCTOR TO PICK A RESEARCH PROJECT, WHICH SHOULD BE REPORTED AND PRESENTED BY THE END OF THE SEMESTER. LECT 01=3 CR; LECT 02=1 CR. UNDERGRADUATES AND GRADUATE STUDENTS FROM OTHER DEPARTMENTS WITH INSTRUCTOR PERMISSION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.
701 STAFF ADV TOPICS IN CMPSCI	NONE	DOCTORAL, MASTERS STUDENTS ONLY.	COMPLETE SPECIAL FORM IN CS MAIN OFFICE TO ADD COURSE (SEE GRADUATE PROGRAM MANAGER).
891M Barrington THRY OF CMPTN	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: https://www.cs.umass.edu/overrides.
899 STAFF PH D DISSERTATION	NONE	NONE	COURSE OPEN ONLY TO CS GRADUATE STUDENTS WHO HAVE PASSED PORTFOLIO. REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/overrides.
H320 Osterweil HONORS COLLOQ - 320	NONE	OPEN TO SENIOR, JUNIOR, AND SOPHOMORE COMMONWEALTH HONORS COLLEGE STUDENTS ONLY.	STUDENTS MUST BE ENROLLED IN CMPSCI 320. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/overrides.
H345 Meliou HONORS COLLOQ - 345	NONE	OPEN TO SENIOR, JUNIOR, AND SOPHOMORE COMMONWEALTH HONORS COLLEGE STUDENTS ONLY.	STUDENTS MUST BE ENROLLED IN CMPSCI 345. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/overrides. COURSE NUMBER CHANGED FROM 390DB TO 345.
H391IB Weems HONORS COLLOQ - 391IB	NONE	OPEN TO SENIOR, JUNIOR, AND SOPHOMORE COMMONWEALTH HONORS COLLEGE STUDENTS ONLY.	STUDENTS MUST BE ENROLLED IN CMPSCI 391IB. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/overrides.
H453 Venkataramani HONORS COLLOQ - 453	NONE	OPEN TO SENIOR, JUNIOR COMMONWEALTH HONORS COLLEGE STUDENTS ONLY.	STUDENTS MUST BE ENROLLED IN CMPSCI 453. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/overrides.