	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 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.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 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 Miklau 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 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 CMPSCI MAJORS RAP SEM	NONE	CMPSCI RAP MAJORS ONLY.	CMPSCI RAP FIRST YEAR PROGRAM STUDENTS ONLY. REGISTRATION AVAILABLE ONLY DURING SUMMER ORIENTATION.
197B Anderson 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 9/18. INSTRUCTOR CONSENT TO DROP OR WITHDRAW THROUGH 9/25 ONLY. COURSE RUNS FOR 6 WEEKS (9/16, 9/23, 9/30, 10/7, 10/14, and 10/21). 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. STUDENTS ARE ENCOURAGED TO BRING A LAPTOP. WINDOWS USERS SHOULD DOWNLOAD PUTTY HERE: http://www.chiark.greenend.org/~sgtatham/putty/download.html.
197U Guo ST-HANDS-ON INTRO UNIX	NONE	CMPSCI MAJORS ONLY.	INSTRUCTOR CONSENT TO ADD BEGINNING 9/18. INSTRUCTOR CONSENT TO DROP OR WITHDRAW THROUGH 9/25. COURSE RUNS FOR 6 WEEKS (9/15/15-10/27/15: LECT 01: 9/15, 9/22, 9/29, 10/6, 10/13-NO CLASS, 10/20, 10/27; LECT 02: 9/17, 9/24, 10/1, 10/8, 10/15, 10/22). 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.
220 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.

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230 Moss 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 Marlin 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 Barrington 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.
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 STAFF 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. IN ADDITION TO REQUESTING AN OVERRIDE, FIVE COLLEGE STUDENTS WISHING TO ENROLL MUST FIRST SUBMIT A BRIEF STATEMENT OF INTEREST TO THE INSTRUCTOR, AND A BRIEF LETTER OF RECOMMENDATION FROM THEIR ADVISOR. THIS LETTER MUST INCLUDE THE STUDENT'S CURRENT GPA. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/overrides.
326 Richards WEB PGMG	CMPSCI 220 (OR CMPSCI 230) 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.
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 Siegelmann 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.umass.edu/overrides.

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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.
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.
397J Tincknell ST-INTRO JAVASCRIPT GAME DEV	CMPSCI 326 WITH A GRADE OF C OR BETTER.	UNDERGRADUATE STUDENTS ONLY.	DOES NOT SATISFY CS MAJOR/MINOR REQUIREMENTS. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/overrides.
453 STAFF CMPTR NTWKS	CMPSCI 230 (OR CMPSCI 377) WITH A GRADE OF 'C' OR BETTER.	CMPSCI MAJORS ONLY.	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 Houmansadr 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.
474 Wang IMAGE SYNTHESIS	CMPSCI 187 (OR E&C-ENG 242) AND MATH 235 ALL WITH A GRADE OF 'C' OR BETTER.	CMPSCI MAJORS ONLY.	PRIOR KNOWLEDGE OF COMPUTER GRAPHICS PREFERRED. IDEALLY THE STUDENT SHOULD HAVE TAKEN CMPSCI 390CG (OR CMPSCI 473, CMPSCI 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: https://www.cs.umass.edu/overrides.
496S Richards INDSTU-SCALABLE WEB SYSTEMS	CMPSCI 230 (OR CMPSCI 220) AND CMPSCI 326, BOTH WITH 'B OR BETTER.	CMPSCI MAJORS ONLY.	ENROLLMENT IN CMPSCI 497S IS REQUIRED. STUDENTS NEEDING INSTRUCTOR PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/overrides.
497S Richards ST-SCALABLE WEB SYSTEMS	CMPSCI 230 (OR CMPSCI 220) AND CMPSCI 326, BOTH WITH 'B' OR BETTER.	CMPSCI MAJORS ONLY.	STUDENTS NEEDING INSTRUCTOR PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/overrides.
503 Grupen EMBEDDED CMPTNG SYSS	UNDERGRADUATES: CMPSCI 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-CMPSC, 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.cs.umass.edu/ugrad-education/courses
513 Immerman LOGIC IN CMPSCI	UNDERGRADUATES: CMPSCI 250 AND CMPSCI 311 WITH A GRADE OF 'C' OR BETTER.	Lect 01: UNDERGRADUATES ONLY. Lect 02: MS-CMPSC GRADUATE STUDENTS ONLY.	MEETS WITH CMPSCI 690LG. LECT 01=UG; LECT 02=GRADS. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/ugrad-education/courses.
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. 4 SEATS HELD FOR INCOMING STUDENT REGISTRATION. 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.
585 O'Connor INTRD TO NLP	UNDERGRADUATES: CMPSCI 220 (OR CMPSCI 230) *AND CMPSCI 240, BOTH* WITH A GRADE OF C OR BETTER.	Lect 01: JUNIOR AND SENIOR CMPSCI MAJORS ONLY. Lect 02: MS-CMPSC 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. 10 SEATS HELD FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING INSTRUCTOR PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/overrides.
590GC Kalogerakis 3D MODELING & SIMULATION	UNDERGRADUATES: CMPSCI 473 (OR CMPSCI 390CG) AND MATH 235, BOTH WITH A GRADE OF A- OR BETTER.	*Lect 01: CMPSCI MAJORS ONLY.* *Lect 02: MS-CMPSC GRADUATE STUDENTS ONLY.*	*MEETS WITH 690GC. LECT 01=UG; LECT 02=GRADS. FOR GRADUATE STUDENTS, THERE ARE NO PREREQUISITES FOR THE COURSE, ALTHOUGH FAMILIARITY WITH COMPUTER GRAPHICS IS USEFUL. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/overrides.*
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.

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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. 15 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.
653 Towsley 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.
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 Mahadevan 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.
690GC Kalogerakis 3D MODELING & SIMULATION	NONE	CMPSCI GRADUATE STUDENTS ONLY.	MEETS WITH 590GC. FOR GRADUATE STUDENTS, THERE ARE NO PREREQUISITES FOR THE COURSE, ALTHOUGH FAMILIARITY WITH COMPUTER GRAPHICS IS USEFUL. 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.
690LG Immerman ADV LOGIC IN CMPSCI	NONE	CMPSCI GRADUATE STUDENTS ONLY.	MEETS WITH CMPSCI 513. STUDENTS TAKING THIS COURSE SHOULD HAVE UNDERGRADUATE PREPARATION IN DISCRETE MATH AND ALGORITHMS. 6 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.
697L Mahadevan S-DEEP LEARNING	NONE	GRADUATE STUDENTS IN CMPSC, ENGIN, AND NATSCI.	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: https://www.cs.umass.edu/overrides.
701 STAFF ADV TOPICS IN CMPSCI	NONE	CMPSCI DOCTORAL, MASTERS STUDENTS ONLY.	REQUEST OVERRIDE VIA THE ON-LINE FORM: https://www.cs.umass.edu/overrides.
745 Diao ADV TPCS IN DB SYSS	NONE	NONE	THE PREREQUISITE IS A GRADUATE COURSE ON THE PRINCIPLES AND IMPLEMENTATIONS OF TRADITIONAL DATABASE SYSTEMS, AN EQUIVALENT OF CMPSCI 645. 8 SEATS HELD FOR INCOMING STUDENT REGISTRATION. STUDENTS WITH OTHER BACKGROUNDS ARE ASKED TO CONTACT THE INSTRUCTOR FOR APPROVAL FOR ENROLLMENT, BUT MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/overrides.
891M Immerman 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.

CATALOG REQUISITE (PRE-REQ CHECK):

CLASS ASSOCIATED REQ (ELIG RESTRICTIONS):

CLASS NOTES/COMMENTS:

INFORMATIONAL ONLY - DOES NOT AFFECT SPIRE ENROLLMENT.

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.