

SPIRE REGISTRATION INFORMATION for 2017 Fall

<u>PREREQUISITES</u>	<u>ELIGIBILITY RESTRICTIONS</u>	<u>CLASS NOTES/COMMENTS</u> <small>INFORMATION ONLY - DOES NOT AFFECT SPIRE ENROLLMENT.</small>
<p>CICS 191CICS1 FYS - CICS <i>Timothy Contois, Mark McCartin-Lim,</i></p>	FIRST-YEAR CICS STUDENTS ONLY.	<p>REGISTRATION AVAILABLE ONLY DURING SUMMER ORIENTATION. Sections 02, 04, 05, and 07 will address 'Computer Security and Privacy': covering various attacks and countermeasures, current events, and high-level overviews of relevant technologies. Sections 06, 08, 09, and 10 will address entrepreneurship, entitled 'Dream Big': discussion of the ideas, decisions, and pioneers that historically shaped computing, with perspectives on how we might shape the future. Section 11 will address 'Artificial Intelligence and Machine Learning': what the real-world applications/problems are and how we can approach them. Additional sections on other topics may be added during the summer.</p>
<p>CICS 191CICS2 FYS-CICS EXPLORATORY RAP <i>Gregory Boisseau</i></p>	CICS EXPLORATORY FIRST YEAR STUDENTS ONLY.	REGISTRATION AVAILABLE ONLY DURING SUMMER ORIENTATION.
<p>CICS 191CMPS2 FYS - CS MAJOR RAP <i>David Barrington, Jack Wileden</i></p>	CS RAP FIRST YEAR PROGRAM STUDENTS ONLY.	REGISTRATION AVAILABLE ONLY DURING SUMMER ORIENTATION.
<p>CICS 298E P-EDUC OUTREACH <i>David Wemhoener</i></p>	COMPSCI 187 OR ECE242 WITH A GRADE OF B OR BETTER. SO, JR, SR CS MAJORS ONLY.	STUDENTS MEET ONCE A WEEK TO PLAN A SET OF EVENTS FOR CS EDUCATION WEEK, DECEMBER 4-10. MEETS WITH CICS 298L. INSTRUCTOR APPROVAL IS REQUIRED FOR ALL STUDENTS PRIOR TO BEING ADMITTED TO THE COURSE. ELIGIBLE SOPHOMORE, JUNIOR, SENIOR INFORMATICS (BDIC) MAJORS SHOULD REQUEST AN OVERRIDE IF UNABLE TO ENROLL ON SPIRE. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
<p>CICS 298L P-EDUC OUTREACH:LEADERSHIP <i>David Wemhoener</i></p>	COMPSCI 187 OR ECE242 WITH A GRADE OF B OR BETTER. SO, JR, SR CS MAJORS ONLY.	STUDENTS MEET TWICE A WEEK TO PLAN A SET OF EVENTS FOR CS EDUCATION WEEK, DECEMBER 4-10. MEETS WITH CICS 298E ON THURSDAYS. INSTRUCTOR APPROVAL IS REQUIRED FOR ALL STUDENTS PRIOR TO BEING ADMITTED TO THE COURSE. ELIGIBLE SOPHOMORE, JUNIOR, SENIOR INFORMATICS (BDIC) MAJORS SHOULD REQUEST AN OVERRIDE IF UNABLE TO ENROLL ON SPIRE. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
<p>COMPSCI 105 COMPUTER LITERACY <i>William Verts</i></p>	UNDERGRADUATE NON-CS MAJORS ONLY.	CS MAJORS ARE NOT ELIGIBLE FOR THIS COURSE. ALL STUDENTS MUST HAVE ACCESS TO A COMPUTER FOR PERFORMING ASSIGNMENTS. COMPUTER MUST RUN WINDOWS 7, 8, OR 10, OR MAC OS/X 10.6 AND LATER, WITH A RECENT VERSION OF MICROSOFT OFFICE (NOTHING EARLIER THAN MICROSOFT OFFICE 2010 FOR WINDOWS OR MICROSOFT OFFICE 2011 FOR MAC). NOT ALL ASSIGNMENTS CAN BE PERFORMED ON A MAC, BUT STUDENTS WITHOUT WINDOWS (OR WITHOUT A COMPUTER) MAY USE CAMPUS WINDOWS PC LABS. PLEASE CHECK 105 WEBSITE. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
<p>COMPSCI 119 INTRO PROGRAMMING <i>William Verts</i></p>	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: https://www.cics.umass.edu/overrides .
<p>COMPSCI 120 PROBLEM SOLVING W/INTERNET <i>William Verts</i></p>	UNDERGRADUATE NON-CS MAJORS ONLY.	CS MAJORS ARE NOT ELIGIBLE FOR THIS COURSE. ALL STUDENTS MUST HAVE ACCESS TO A COMPUTER CONNECTED TO THE INTERNET FOR PERFORMING ASSIGNMENTS. COMPUTER MUST RUN WINDOWS 7, 8, OR 10, OR MAC OS/X 10.6 AND LATER. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
<p>COMPSCI 121 PROBLEM SOLVING W/COMPUTERS <i>Gordon Anderson, Neena Thota, Ali</i></p>	COMPLETION OF THE R1 GEN ED (OR A SCORE OF 20 OR HIGHER ON THE MATH PLACEMENT TEST PART A), OR ONE OF THE FOLLOWING COURSES: MATH 101&102 OR MATH 104 OR MATH 127 OR MATH 128 OR MATH 131 OR MATH 132. UNDERGRADUATE CS MAJORS AND CICS EXPLORATORY TRACK STUDENTS ONLY.	BEGINNING IN FALL 2017, ATTENDANCE IN LECT AND LAB IS MANDATORY. ICLICKER IS REQUIRED. FOR QUESTIONS ABOUT 121 COURSE ADMINISTRATION, CONTACT CS121admin@cs.umass.edu. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .

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COMPSCI 187 PROGRAMMING W/DATA STRCTRS <i>Rui Wang, Nishant Yadav, Aritra Ghosh,</i>	COMPSCI 121 WITH A GRADE OF B OR BETTER (OR COMPSCI 190D WITH A C OR BETTER).	UNDERGRADUATE CS MAJORS ONLY.	THE PREREQUISITE FOR COMPSCI 187 REQUIRES A GRADE OF B OR BETTER IN 121 (OR C OR BETTER IN COMPSCI 190D). ATTEND DISCUSSION EVEN IF BEFORE FIRST CLASS MEETING. CS MINORS, APPLICANTS-ON-CONTRACT, AND OTHERS NOT MEETING ELIGIBILITY, OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 190D USING DATA STRUCTURES <i>Marc Liberatore, Joshua Pikovsky, Colin</i>	COMPSCI 121 WITH A GRADE OF C OR BETTER AND BASIC MATH SKILLS (R1).	UNDERGRADUATES ONLY.	STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 197C ST-PGMG IN C <i>John Foley</i>	COMPSCI 187 (OR E&C-ENG 242) WITH A GRADE OF 'C' OR BETTER.	FRESHMEN AND SOPHOMORE CS MAJORS ONLY.	STUDENTS WHO HAVE TAKEN COMPSCI 230 ARE NOT ELIGIBLE FOR THIS COURSE. COURSE RUNS FOR 6 WEEKS (9/13, 9/20, 9/27, 10/4, 10/11, and 10/18). CS MINORS AND APPLICANTS-ON-CONTRACT NOT MEETING ELIGIBILITY, OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides . STUDENTS ARE ENCOURAGED TO BRING A LAPTOP. WINDOWS USERS SHOULD DOWNLOAD PUTTY HERE: http://www.chiark.greenend.org/~sgtatham/putty/download.html .
COMPSCI 198J P-HIGH SCHOOL TEACHING PRACTICUM <i>Emery Berger</i>	COMPSCI 121 AND COMPSCI 187 BOTH WITH A GRADE OF A- OR BETTER.	UNDERGRADUATES ONLY.	INSTRUCTOR CONSENT REQUIRED. MAY BE REPEATED FOR CREDIT.
COMPSCI 220 PGMG METHODOLOGY <i>Roderic Grupen, Joydeep Biswas, Jarrett</i>	COMPSCI 187 (OR E&C-ENG 242) WITH A GRADE OF 'C' OR BETTER.	CS MAJORS ONLY.	STUDENTS ARE STRONGLY ADVISED NOT TO TAKE 220/230 IN THE SAME SEMESTER. DUE TO ENROLLMENT PRESSURE, THE UPC RESERVES THE RIGHT TO DROP STUDENTS ENROLLED IN BOTH FROM EITHER COURSE WHEN NECESSARY. CS MINORS, APPLICANTS-ON-CONTRACT, AND OTHERS NOT MEETING ELIGIBILITY, OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 230 CMPTR SYS PRINC <i>J Moss</i>	COMPSCI 187 (OR E&C-ENG 242) WITH A GRADE OF 'C' OR BETTER.	CS MAJORS ONLY.	STUDENTS ARE STRONGLY ADVISED NOT TO TAKE 220/230 IN THE SAME SEMESTER. DUE TO ENROLLMENT PRESSURE, THE UPC RESERVES THE RIGHT TO DROP STUDENTS ENROLLED IN BOTH FROM EITHER COURSE WHEN NECESSARY. CS MINORS, APPLICANTS-ON-CONTRACT, AND OTHERS NOT MEETING ELIGIBILITY, OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 240 RSNG UNDER UNCERTAINTY <i>Arya Mazumdar, Sunghoon Lee, David</i>	COMPSCI 187 (OR E&C-ENG 242) AND MATH 132 WITH A GRADE OF 'C' OR BETTER.	CS MAJORS ONLY.	STUDENTS ARE ADVISED NOT TO TAKE 240/250 IN THE SAME SEMESTER. DUE TO ENROLLMENT PRESSURE, THE UPC RESERVES THE RIGHT TO DROP STUDENTS ENROLLED IN BOTH FROM EITHER COURSE WHEN NECESSARY. CS MINORS, APPLICANTS-ON-CONTRACT, AND OTHERS NOT MEETING ELIGIBILITY, OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 250 INTRO TO COMPUTATION <i>David Barrington, Matteo Brucato, Hia</i>	MATH 132 AND COMPSCI 187 (OR E&C-ENG 242) WITH GRADE OF 'C' OR BETTER.	CS, CSENG, AND MATH MAJORS ONLY.	STUDENTS ARE ADVISED NOT TO TAKE 240/250 IN THE SAME SEMESTER. DUE TO ENROLLMENT PRESSURE, THE UPC RESERVES THE RIGHT TO DROP STUDENTS ENROLLED IN BOTH FROM EITHER COURSE WHEN NECESSARY. STUDENTS WHO HAVE COMPLETED MATH 131 AND COMPSCI 187 OR EQUIVALENT AND HAVE A CO-REQUISITE OF MATH 132 MAY REQUEST OVERRIDE (PERMISSION MAY BE GRANTED IF BETTER THAN AVERAGE GRADES AND AVAILABLE SEATS). CS MINORS, APPLICANTS-ON-CONTRACT, AND OTHERS NOT MEETING ELIGIBILITY, OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 305 SOC ISS IN CMPTNG <i>Anna Napoleone, Michelle Trim</i>	ENGLWRIT 112 (OR ENGLWRIT 000 WAIVER) AND COMPSCI 220 (OR COMPSCI 230) AND COMPSCI 240 (OR COMPSCI 250), ALL WITH A GRADE OF C OR BETTER.	JUNIOR AND SENIOR CS MAJORS ONLY.	SATISFIES JUNIOR YEAR WRITING REQUIREMENT. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 311 INTRO TO ALGORITHMS <i>Ramesh Sitaraman</i>	COMPSCI 250 (OR MATH 455) WITH GRADE OF 'C' OR BETTER.	CS MAJORS ONLY.	CS MINORS, APPLICANTS-ON-CONTRACT, AND OTHERS NOT MEETING ELIGIBILITY, OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .

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COMPSCI 320 INTRO TO SOFTWARE ENGINEERING <i>Gordon Anderson, Neena Thota, Rui</i>	COMPSCI 220 WITH GRADE OF 'C' OR BETTER.	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 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.cics.umass.edu/overrides .
COMPSCI 325 INTRO TO HUMAN CMPTR INTERACTN <i>Eva Hudlicka, Stephen Giguere,</i>		UNDERGRADUATE SENIORS AND JUNIORS ONLY.	COURSE TAUGHT IN MIXED FORMAT, WITH BOTH ON-LINE (LECTS) AND IN-CLASS COMPONENTS (WEEKLY DISCUSSION GROUPS AND STUDIOS). ATTENDANCE OF SOME STUDIO CLASSES WILL BE REQUIRED. SEVERAL PROJECT PRESENTATIONS THROUGHOUT SEMESTER. STUDENTS ENCOURAGED TO USE AVAILABLE CLASS TIME TO WORK ON TEAM PROJECTS. 50 SEATS RESERVED FOR CS MAJORS. JUNIOR AND SENIOR INFORMATICS (BDIC) MAJORS WHO CANNOT ENROLL ON SPIRE SHOULD REQUEST OVERRIDE. IN ADDITION TO REQUESTING AN OVERRIDE, FIVE COLLEGE STUDENTS WISHING TO ENROLL 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
COMPSCI 326 WEB PROGRAMMING <i>Timothy Richards</i>	COMPSCI 220 (OR COMPSCI 230) WITH A GRADE OF 'C' OR BETTER.	JUNIOR AND SENIOR CS MAJORS ONLY.	SATISFIES INTEGRATIVE EXPERIENCE REQUIREMENT FOR CS MAJORS. INFORMATICS STUDENTS NOT MEETING PREREQUISITE WHO HAVE SUCCESSFULLY COMPLETED COMPSCI 187 MAY BE ALLOWED WITH PERMISSION OF INSTRUCTOR IF AVAILABLE SEATS. CS MINORS, APPLICANTS-ON-CONTRACT, AND OTHERS NOT MEETING ELIGIBILITY, OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 328 MOBILE HEALTH SENSING&ANALYTCS <i>Deepak Ganesan</i>	COMPSCI 187 (OR E&C-ENG 242) WITH A GRADE OF C OR BETTER.	CS MAJORS ONLY.	INFORMATICS (BDIC) WHO CANNOT ENROLL ON SPIRE SHOULD REQUEST OVERRIDE. CS MINORS, APPLICANTS-ON-CONTRACT, AND OTHERS NOT MEETING ELIGIBILITY, OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 335 INSIDE BOX:HOW CMPTRS WORK <i>Charles Weems</i>	COMPSCI 220 (OR COMPSCI 230) WITH A GRADE OF 'C' OR BETTER.	SENIOR, JUNIOR, SOPHOMORE CS MAJORS ONLY.	AN 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.cics.umass.edu/overrides .
COMPSCI 345 PRACT & APPLICS OF DATA MGMT <i>Alexandra Meliou, David Wemhoener</i>	COMPSCI 187 (OR E&C-ENG 242) WITH A GRADE OF 'C' OR BETTER.	CS MAJORS ONLY.	AN HONORS COLLOQUIUM IS AVAILABLE FOR THIS COURSE. 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. INFORMATICS (BDIC) MAJORS SHOULD REQUEST AN OVERRIDE IF UNABLE TO ENROLL ON SPIRE. OTHER NON-CS MAJORS WHO MEET PREREQUISITE WILL BE CONSIDERED WITH INSTRUCTOR PERMISSION IF AVAILABLE SEATS. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 377 OPERATING SYSTEMS <i>Timothy Richards</i>	COMPSCI 230 WITH A GRADE OF 'C' OR BETTER.	CS MAJORS ONLY.	DISCUSSION MEETS AFTER FIRST LECTURE. CS MINORS, APPLICANTS-ON-CONTRACT, AND OTHERS NOT MEETING ELIGIBILITY, OR STUDENTS NEEDING SPECIAL PERMISSION (INSTRUCTOR PERMISSION IF NOT MEETING PREREQUISITE) MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 383 ARTIFICIAL INTELLIGENCE <i>Ian Gemp</i>	COMPSCI 220 (OR COMPSCI 230) AND COMPSCI 240, BOTH WITH GRADE OF 'C' OR BETTER.	JUNIOR AND SENIOR CS MAJORS ONLY.	CS MINORS, APPLICANTS-ON-CONTRACT, AND OTHERS NOT MEETING ELIGIBILITY, OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 391L S-CMPTR CRIME LAW:INVSTG/PRVCY <i>Marc Liberatore</i>	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: https://www.cics.umass.edu/overrides .

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COMPSCI 453 COMPUTER NETWORKS <i>Parviz Kermani</i>	COMPSCI 230 (OR COMPSCI 377) WITH A GRADE OF 'C' OR BETTER.	SENIOR AND JUNIOR CS MAJORS ONLY.	STUDENTS WHO ARE NOT CS MAJORS BUT HAVE SUFFICIENT PROGRAMMING EXPERIENCE, CS GRADUATE STUDENTS, OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 460 INTRO COMPUTER/NETWRK SECURITY <i>Amir Houmansadr</i>	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: https://www.cics.umass.edu/overrides .
COMPSCI 497P ST-PGMG LANGS <i>Arjun Guha</i>	COMPSCI 220, COMPSCI 230 AND COMPSCI 250 ALL WITH GRADE OF A.	CS MAJORS ONLY.	PERMISSION OF INSTRUCTOR REQUIRED. MEETS WITH COMPSCI 631. STUDENTS NEEDING INSTRUCTOR PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 513 LOGIC IN COMPUTER SCIENCE <i>Neil Immerman</i>	UNDERGRADUATES: COMPSCI 250 AND COMPSCI 311 WITH A GRADE OF 'C' OR BETTER.	Lect 01: CS MAJORS ONLY. Lect 02: MS-CMPSCI GRADUATE STUDENTS ONLY.	MEETS WITH COMPSCI 690LG. LECT 01=UG; LECT 02=GRADS. SEATS SAVED IN LECT 02 FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 520 THEORY AND PRACTICE-SOFTENGIN <i>Yuriy Brun, Rene Just</i>	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. SEATS HELD IN LECT 02 FOR INCOMING STUDENT REGISTRATION. CS MINORS, APPLICANTS-ON-CONTRACT, AND OTHERS NOT MEETING ELIGIBILITY, OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 529 SOFTWARE ENGINEERING PROJ MGMT <i>Gordon Anderson, Neena Thota</i>	COMPSCI 320 WITH A GRADE OF 'A-' OR BETTER.		PERMISSION OF INSTRUCTOR REQUIRED. MEETS WITH COMPSCI 320. STUDENTS NEEDING INSTRUCTOR PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 585 INTRO NATURAL LANG PROCESSING <i>Brendan O'Connor</i>	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. SEATS HELD IN LECT 02 FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING INSTRUCTOR PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 589 MACHINE LEARNING <i>Justin Domke</i>	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. SEATS HELD IN LECT 02 FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 590CC CLOUD COMPUTING <i>Arun Venkataramani</i>	UNDERGRADUATES: COMPSCI 377 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 NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/overrides .
COMPSCI 590D ALGORITHMS FOR DATA SCIENCE <i>Barna Saha, David Wemhoener</i>	UNDERGRADUATES: COMPSCI 240 AND 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. SEATS HELD IN LECT 02 FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .

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<p>COMPSCI 590E ETHICAL CONSIDRTNS IN COMPUTNG <i>Michelle Trim</i></p>	MS-CMPSCI STUDENTS ONLY.	SEATS HELD FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
<p>COMPSCI 590N INTRO NUMRICAL CMPTNG W/PYTHON <i>Roy Adams</i></p>	GRADUATE STUDENTS ONLY.	LECT 02 IS ON-LINE. COURSE RUNS FOR 6 WEEKS (9/5/17-10/17/17: 10/10-NO CLASS). 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: https://www.cics.umass.edu/overrides .
<p>COMPSCI 590R APPLIED INFORMATION RETRIEVAL <i>David Fisher</i></p>	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. SEATS SAVED IN LECT 02 FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
<p>COMPSCI 590S SYSTEMS FOR DATA SCIENCE <i>Emery Berger</i></p>	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. SEATS HELD IN LECT 02 FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
<p>COMPSCI 611 ADVANCED ALGORITHMS <i>Andrew McGregor</i></p>	CMPSCI GRADUATE STUDENTS ONLY.	INSTRUCTOR PERMISSION REQUIRED FOR UNDERGRADUATE CS MAJORS CLEARED BY THE UPD, IF AVAILABLE SEATS. SEATS HELD FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
<p>COMPSCI 631 PROGRAMMING LANGUAGES <i>Arjun Guha</i></p>	CMPSCI GRADUATE STUDENTS ONLY.	MEETS WITH COMPSCI 497P. SEATS HELD FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
<p>COMPSCI 635 MODERN COMPUTER ARCHITECTURE <i>Charles Weems</i></p>	CMPSCI GRADUATE STUDENTS ONLY.	SEATS SAVED FOR INCOMING STUDENT REGISTRATION. 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: https://www.cics.umass.edu/overrides .
<p>COMPSCI 653 COMPUTER NETWORKING <i>Phillipa Gill</i></p>	CMPSCI GRADUATE STUDENTS ONLY.	SEATS HELD FOR INCOMING STUDENT REGISTRATION. ECE GRADUATE STUDENTS IF AVAILABLE SEATS. CS AND CSENG MAJORS CLEARED BY THE UPD MEETING PREREQUISITE OF COMPSCI 453 AND COMPSCI 311 WITH A GRADE OF C OR BETTER, IF AVAILABLE SEATS. STUDENTS NEEDING INSTRUCTOR PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
<p>COMPSCI 670 COMPUTER VISION <i>Subhransu Maji</i></p>	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. SEATS HELD FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING INSTRUCTOR PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
<p>COMPSCI 682 NEURAL NETWORKS:MODERN INTRO <i>Erik Learned-Miller</i></p>	CMPSCI GRADUATE STUDENTS ONLY.	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. SEATS HELD FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .

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COMPSCI 687 REINFORCEMENT LEARNING <i>Philip Thomas</i>		CMPSCI GRADUATE STUDENTS ONLY.	PREREQUISITES: COMPSCI 589, OR COMPSCI 689, OR COMPSCI 683, WITH A GRADE OF C OR BETTER. FAMILIARITY WITH AN OBJECT ORIENTED PROGRAMMING LANGUAGE IS REQUIRED (ASSIGNMENTS WILL USE C++, BUT FAMILIARITY WITH C++ SPECIFICALLY WILL NOT BE ASSUMED). STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 689 MACHINE LEARNING <i>Benjamin Marlin</i>		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, IF CLEARED BY THE UPD AND AVAILABLE SEATS. SEATS HELD FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 690LG ADV LOGIC IN COMPUTER SCIENCE <i>Neil Immerman</i>		CMPSCI GRADUATE STUDENTS ONLY.	MEETS WITH COMPSCI 513. STUDENTS TAKING THIS COURSE SHOULD HAVE UNDERGRADUATE PREPARATION IN DISCRETE MATH AND ALGORITHMS. SEATS HELD FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 690M MACHINE LEARNING THEORY <i>Akshay Krishnamurthy</i>	COMPSCI 689.	CMPSCI GRADUATE STUDENTS ONLY.	INSTRUCTOR PERMISSION REQUIRED FOR UNDERGRADUATE CS MAJORS CLEARED BY THE UPD, IF AVAILABLE SEATS. STUDENTS WITH COMPSCI 589 MAY BE CONSIDERED WITH INSTRUCTOR PERMISSION. SEATS SAVED FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 690V VISUAL ANALYTICS <i>Georges Grinstein</i>		CMPSCI GRADUATE STUDENTS ONLY.	THE COURSE IS A PRACTICAL CONTINUATION OF COMPSCI 590V - DATA VISUALIZATION AND EXPLORATION AND FOCUSES ON COMPLEX PROBLEMS AND APPLICATIONS, HOWEVER, 590V IS NOT A PREREQUISITE AND BOTH 590V AND 690V MAY BE TAKEN INDEPENDENTLY OF EACH OTHER. SEATS SAVED FOR INCOMING STUDENT REGISTRATION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 691DD S-RESEARCH METHODS-EMPIRICAL CS <i>David Jensen</i>		COMPSCI AND ECE GRADUATE STUDENTS ONLY.	SEATS SAVED FOR INCOMING STUDENT REGISTRATION. CHC CS MAJORS WITH INSTRUCTOR PERMISSION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 691NN S-HOT TOPICS-PGMG LANGS&SYSTEMS <i>René Just, Arjun Guha</i>		CMPSCI GRADUATE STUDENTS ONLY.	GRADUATE STANDING OR PERMISSION OF INSTRUCTOR. PREVIOUS ENROLLMENT IN COMPSCI 630 (GRADUATE SYSTEMS) RECOMMENDED BUT NOT REQUIRED. SECTION 01 = 3 CREDITS, SECTION 02 = 1 CREDIT. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/ugrad-education/courses
COMPSCI 691O S-TOOLS-EXPLANATORY/TUTORING SYS <i>Beverly Woolf</i>		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.cics.umass.edu/overrides .
COMPSCI 691Q S - QUANTUM COMPUTING <i>Donald Towsley</i>		COMPSCI AND ECE GRADUATE STUDENTS ONLY.	COURSES IN LINEAR ALGEBRA AND BASIC PROBABILITY REQUIRED. OTHER MAJORS NEED PERMISSION OF THE INSTRUCTOR. SECTION 1=3 CREDITS, SECTION 2=1 CREDIT.
COMPSCI 691WM S-WEARABLE&MOBILE SENSORS-CLIN SCI <i>Sunghoon Lee</i>		CMPSCI GRADUATE STUDENTS ONLY.	SEATS SAVED FOR INCOMING STUDENT REGISTRATION. SECTION 1=3 CREDITS, SECTION 2=1 CREDIT. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .

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COMPSCI 701 ADV TOPICS IN CMPSCI 		DOCTORAL, MASTERS CS STUDENTS ONLY.	REQUEST OVERRIDE VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI 890T TAS AS TOMORROW'S FACULTY <i>Neena Thota</i>			COURSE IS ASSOCIATED WITH CICS TA EMPLOYMENT. REQUIRED COMPONENT OF TA CONTRACT. REGISTRATION WILL BE PROCESSED BY GRADUATE PROGRAM MANAGER AFTER SIGNED AND APPROVED CONTRACT. OPEN TO CICS TEACHING ASSISTANTS ONLY.
COMPSCI 891M S-THEORY OF COMPUTATION <i>Neil Immerman</i>		DOCTORAL, MASTERS MAJORS 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.cics.umass.edu/overrides .
COMPSCI 899 PHD DISSERTATION 			COURSE OPEN ONLY TO CS GRADUATE STUDENTS WHO HAVE PASSED PORTFOLIO. REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI H320 HNRS COLLOQ: SOFTW ENGINEERING <i>Leon Osterweil</i>	COMPSCI 220 WITH A GRADE OF C OR BETTER.	OPEN TO SENIOR AND JUNIOR 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: https://www.cics.umass.edu/overrides .
COMPSCI H335 HNRS COLLOQ: INSIDE THE BOX <i>Charles Weems</i>	COMPSCI 220 (OR COMPSCI 230) WITH A GRADE OF 'C' OR BETTER.	OPEN TO SENIOR, JUNIOR, AND SOPHOMORE COMMONWEALTH HONORS COLLEGE CS MAJORS ONLY.	STUDENTS MUST BE ENROLLED IN COMPSCI 335. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI H345 HNRS COLLOQ:PRAC&APP-DATA MGT <i>Alexandra Meliou</i>	COMPSCI 187 (OR E&C-ENG 242) WITH A GRADE OF 'C' OR BETTER.	OPEN TO SENIOR, JUNIOR, AND SOPHOMORE COMMONWEALTH HONORS COLLEGE STUDENTS ONLY.	STUDENTS MUST BE ENROLLED IN COMPSCI 345. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
COMPSCI H377 HNRS COLLOQ: OPERATING SYSTEMS <i>Timothy Richards</i>	COMPSCI 230 WITH A GRADE OF C OR BETTER.	OPEN TO SENIOR AND JUNIOR, AND SOPHOMORE COMMONWEALTH HONORS COLLEGE CS MAJORS ONLY.	STUDENTS MUST BE ENROLLED IN COMPSCI 377. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cics.umass.edu/overrides .
INFO 101 INTRO TO INFORMATICS <i>Michelle Trim</i>		UNDERGRADUATE 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: https://www.cics.umass.edu/overrides .
INFO 150 MATH FOUND-INFORMATICS <i>David Barrington</i>		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: https://www.cics.umass.edu/overrides .

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INFOSEC 690R INFORMATION RISK MANAGEMENT <i>Amanda Andress</i>	COMPSCI AND ECE GRADUATE STUDENTS ONLY.	
INFOSEC 690S SYSTEM DEFENSE AND TEST <i>Parviz Kermani</i>	COMPSCI AND ECE GRADUATE STUDENTS ONLY.	INSTRUCTOR PERMISSION IS REQUIRED, AND IT IS STRONGLY RECOMMENDED THAT STUDENTS HAVE ALREADY TAKEN COMPSCI 460 OR COMPSCI 660 OR CICS 597C BEFORE ENROLLING IN THIS CLASS.