### SPIRE REGISTRATION INFORMATION for Fall 2016

#### 105
- **CMPTR LTRCY**
  - **Non-CS Majors Only:**
  - **Class Notes/Comments:**
    - Registration Information for Fall 2016
    - Informational only - does not affect SPIRE enrollment.

#### 119
- **INTRO PROGRAMMING**
  - **Non-CS Majors Only:**
  - **Class Notes/Comments:**
    - Attending the first lecture is mandatory.

#### 120
- **PHILM SLVNG WIN1H1**
  - **Non-CS Majors Only:**
  - **Class Notes/Comments:**
    - All students must have access to a computer for performing assignments.

#### 187
- **PGMG W/DATA STRCTR**
  - **Undergraduate CS Majors Only:**

#### 190DM
- **MATH FOUND-INFORMATICS**
  - **Non-CS and Non-Math Undergraduate Majors Only:**

#### 190IN
- **INTRO TO INFORMATICS**
  - **Non-CS Majors Only:**

#### 191CICS1
- **CICS EXPLORATORY FYS**
  - **Staff:**
  - **Class Notes/Comments:**
    - Foundations course for the Informatics Major (BDIC).

#### 191CICS2
- **Boisseau**
  - **CICS EXPLORATORY RAP FYS**
  - **Class Notes/Comments:**
    - Computing and Informatics Exploratory RAP First Year Students Only. Registration available only during Summer Orientation.

#### 191CMPS1
- **CMPS1 MAJORS RAP SEM**
  - **Staff:**
  - **Class Notes/Comments:**
    - Computer Science First Year Students Only. Registration available only during Summer Orientation.

#### 191CMPS2
- **CMPS1 MAJORS RAP SEM**
  - **Staff:**
  - **Class Notes/Comments:**
    - CS RAP Majors Only.
    - Course runs for 6 weeks (9/13/16-10/25/16: 9/13, 9/15, 9/20, 9/22, 9/27, 9/29, 10/4, 10/6, 10/11-No Class, 10/13, 10/18, 10/20, 10/25). Add/Drop through 9/19. Instructor consent required to withdraw 9/20-9/23 only.

#### 197B
- **Anderson**
  - **ST-ADV ASSIGN FOR 121**
  - **Class Notes/Comments:**
    - Must be enrolled in CMPS1 121 Concurrently. Students needing permission must request overrides via the online form: https://www.cs.umass.edu/overrides.

#### 197C
- **Scarcel**
  - **ST-PGMG IN C**
  - **Class Notes/Comments:**
    - Course runs for 6 weeks (9/13/16-10/25/16: 9/13, 9/15, 9/20, 9/22, 9/27, 9/29, 10/4, 10/6, 10/11-No Class, 10/13, 10/18, 10/20, 10/25). Add/Drop through 9/19. Instructor consent required to withdraw 9/20-9/23 only. CS minors and applicants-on-contract not meeting eligibility, or students needing special permission must request overrides via the online form: https://www.cs.umass.edu/overrides.
SPIRE REGISTRATION INFORMATION for Fall 2016

CATALOG REQUISITE (PRE-REQ CHECK):

197WP Scarrin
ST-INTRO TO HTML/CSS

220 Guha
PGMGT METHODOLOGY

230 Richards
CMPTSYS PRINC

240 Mazumdar
RSNG UNDER UNCERTAINTY

290 Immerman
INTRO TO CPTN

305 Trim
SOC ISS IN CMPNG

311 Siegelmann
INTRO TO ALGRTHMS

320 Anderson
INTRO TO SFTWR ENGG

325 Hudlicka
INTRO TO HUMAN CMPTR INTERACTN

326 Richards
WEB PGMG

335 Weems
INSIDE BOX-HOW CMPTR'S WORK

335HH Weems
INSIDE BOX-HOW CMP'S WORK

CLASS ASSOCIATED REQ (ELIG RESTRICTIONS):

COMPSCI 121 WITH A GRADE OF 'C' OR BETTER.

CLASS ASSOCIATED REQ (ELIG RESTRICTIONS):

CS MAJORS ONLY.

CLASS ASSOCIATED REQ (ELIG RESTRICTIONS):

COMPSCI 187 (OR E&C-ENG 242) WITH A GRADE OF 'C' OR BETTER.

CLASS ASSOCIATED REQ (ELIG RESTRICTIONS):

CS MAJORS ONLY.

COMPSCI 187 (OR E&C-ENG 242) AND MATH 132 WITH A GRADE OF 'C' OR BETTER.

CLASS ASSOCIATED REQ (ELIG RESTRICTIONS):

CS MAJORS ONLY.

MA1H 132 AND COMPSCI 187 (OH E&C-ENG 242) WITH GRADE OF 'C' OR BETTER.

CLASS ASSOCIATED REQ (ELIG RESTRICTIONS):

CS, MATH, AND USENG MAJORS ONLY.

ENGLWRIT 112 WITH GRADE OF 'C' OR BETTER.

CLASS ASSOCIATED REQ (ELIG RESTRICTIONS):

JUNIOR AND SENIOR CS MAJORS ONLY.

COMPSCI 250 (OR MATH 455) WITH GRADE OF 'C' OR BETTER.

CLASS ASSOCIATED REQ (ELIG RESTRICTIONS):

CS MAJORS ONLY.

COMPSCI 220 WITH GRADE OF 'C' OR BETTER.

CLASS ASSOCIATED REQ (ELIG RESTRICTIONS):

SOPHOMORE, JUNIOR AND SENIOR CS MAJORS ONLY.

SOPHOMORE, JUNIOR AND SENIOR CS MAJORS ONLY.

UNDEJ/HGRADUATES ONLY.

SOPHOMORE, JUNIOR AND SENIOR CS MAJORS ONLY.

UNDEJ/HGRADUATES ONLY.

SOPHOMORE, JUNIOR AND SENIOR CS MAJORS ONLY.

SOPHOMORE, JUNIOR, SOPHOMORE CS MAJORS ONLY.

OPEN TO SENIOR, JUNIOR, AND SOPHOMORE
COMMONWEALTH HONORS COLLEGE CS MAJORS ONLY.

CLASS NOTES/COMMENTS:

INFORMATIONAL ONLY - DOES NOT AFFECT SPIRE ENROLLMENT.

STUDENTS WHO ARE ENROLLED IN OR HAVE TAKEN CMPSCI 326 ARE NOT ELIGIBLE FOR THIS COURSE. COURSE RUNS FOR 6 WEEKS 8/14/16 -10/25/16, 9/13, 9/20, 9/27, 10/4, 10/11 NO CLASS, 10/18, 10/25, 11/2 DROPTHRU 11/9. INSTRUCTOR CONSENT REQUIRED TO WITHDRAW 9/20 -9/23 ONLY. CS MINORS AND APPLICANTS-ON-CONTRACT NOT MEETING ELIGIBILITY, OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/overrides.

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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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.

STUDENTS WHO ARE ENROLLED IN OR HAVE TAKEN CMPSCI 529. AN OPTIONAL HONORS SEMINAR MAY BE AVAILABLE. CS MENG MAJORS WILL BE ADMITTED ONLY IF SPACE ALLOWS. MEETS WITH COMPSCI 559. 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.

STUDENTS WHO ARE ENROLLED IN OR HAVE TAKEN CMPSCI 559. 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.

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.

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.

INFORMATIONAL ONLY - DOES NOT AFFECT SPIRE ENROLLMENT.

STUDENTS WHO ARE ENROLLED IN OR HAVE TAKEN CMPSCI 326 ARE NOT ELIGIBLE FOR THIS COURSE. COURSE RUNS FOR 6 WEEKS 8/14/16 -10/25/16, 9/13, 9/20, 9/27, 10/4, 10/11 NO CLASS, 10/18, 10/25, 11/2 DROPTHRU 11/9. INSTRUCTOR CONSENT REQUIRED TO WITHDRAW 9/20 -9/23 ONLY. CS MINORS AND APPLICANTS-ON-CONTRACT NOT MEETING ELIGIBILITY, OR STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/overrides.

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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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.

STUDENTS WHO ARE ENROLLED IN OR HAVE TAKEN CMPSCI 529. AN OPTIONAL HONORS SEMINAR MAY BE AVAILABLE. CS MENG MAJORS WILL BE ADMITTED ONLY IF SPACE ALLOWS. MEETS WITH COMPSCI 559. 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.

STUDENTS WHO ARE ENROLLED IN OR HAVE TAKEN CMPSCI 559. 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.
### SPIRE REGISTRATION INFORMATION for Fall 2016

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

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<th>Number</th>
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#### CLASS ASSOCIATED REQ (ELIG RESTRICTIONS):

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<th>Class</th>
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<tr>
<td>CS MAJORS ONLY.</td>
<td>COMPSCI 230 WITH A GRADE OF 'C' OR BETTER.</td>
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<tr>
<td>JUNIOR AND SENIOR CS MAJORS ONLY.</td>
<td>COMPSCI 220 (OR COMPSCI 230) AND COMPSCI 240, BOTH WITH GRADE OF 'C' OR BETTER.</td>
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<tr>
<td>OPEN TO SENIOR, JUNIOR, AND SOPHOMORE COMMONWEALTH HONORS COLLEGE CS MAJORS ONLY.</td>
<td>COMPSCI 220 WITH A GRADE OF B OR BETTER.</td>
</tr>
<tr>
<td>CS MAJORS ONLY.</td>
<td>COMPSCI 250 (OR MATH 455) AND COMPSCI 377, BOTH WITH A GRADE OF C OR BETTER.</td>
</tr>
<tr>
<td>CS MAJORS ONLY.</td>
<td>COMPSCI 230 (OR COMPSCI 377) WITH A GRADE OF 'C' OR BETTER.</td>
</tr>
<tr>
<td>JUNIOR AND SENIOR CS MAJORS ONLY.</td>
<td>COMPSCI 377 WITH A GRADE OF C OR BETTER.</td>
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<td>CS MAJORS ONLY.</td>
<td>COMPSCI 187 (OR E&amp;C-ENG 242) WITH A GRADE OF 'C' OR BETTER.</td>
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<td>CS MAJORS ONLY.</td>
<td>COMPSCI 320 OR COMPSCI 326 WITH A GRADE OF C OR BETTER.</td>
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<td>UNDERGRADUATES MUST HAVE COMPLETED COMPSCI 320 WITH A GRADE OF C OR BETTER.</td>
<td>Lect 01: JUNIOR AND SENIOR CS MAJORS ONLY. Lect 02: MS-COMPSCI STUDENTS ONLY.</td>
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<tr>
<td>COMPSCI 320 WITH A GRADE OF 'A' OR BETTER.</td>
<td>NONE</td>
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<tr>
<td>COMPSCI 250 (OR MATH 455) WITH A GRADE OF B OR BETTER.</td>
<td>Lect 01: UNDERGRADUATES ONLY. Lect 02: MS-COMPSCI GRADUATE STUDENTS ONLY.</td>
</tr>
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</table>

#### CLASS NOTES/COMMENTS:

- **INFORMATIONAL ONLY - DOES NOT AFFECT SPIRE ENROLLMENT.**
- **20 SEATS ARE RESERVED FOR JUNIORS, SOPHOMORES, AND FRESHMEN. 10 SEATS HELD FOR INFORMATICS (BIOC) MAJORS. STUDENTS ARE EXPECTED TO HAVE BASIC PROGRAMMING SKILLS, AND BE ABLE TO OCCASIONALLY USE LAPTOPS IN CLASS. STUDENTS WHO HAVE TAKEN COMPSCI 445 ARE NOT ELIGIBLE. STUDENTS NEEDING SPECIAL PERMISSION (INSTRUCTOR PERMISSION IF NOT MEETING PREREQUISITE) MUST REQUEST OVERRIDES (FOR AVAILABLE SEATS) VIA THE ON-LINE FORM: https://www.cs.umass.edu/overrides. COURSE NUMBER CHANGED FROM 390DB TO 345.
- **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.**
- **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.**
- **STUDENTS MUST BE ENROLLED IN COMPSCI 320. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/overrides.**
- **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.**
- **MEETS WITH COMPSCI 610. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/overrides.**
- **STUDENTS WHO ARE NOT ELIGIBLE FOR THIS COURSE MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/overrides.**
- **STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/overrides.**
- **STUDENTS WHO ARE NOT CS MAJORS BUT HAVE SUFFICIENT SPECIAL PERMISSION (INSTRUCTOR PERMISSION IF NOT MEETING PREREQUISITE) MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/overrides.**
- **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.**
- **STUDENTS NEED ACCESS TO AN INTEL PROCESSOR MACHINE (PREFERRABLY A LAPTOP FOR USE IN CLASS) RUNNING THE MOST RECENT VERSION OF OSX, AND WILL BE REQUIRED TO JOIN THE APPLE DEVELOPER PROGRAM TO USE THE NECESSARY SOFTWARE. IF USING A HACKINTOSH, STUDENTS ARE STRONGLY ADVISED TO FIRST CHECK COMPATIBILITY WITH THE DEVELOPMENT KIT AND SIMULATOR. COMPSCI 326 AS A PREREQUISITE WITH INSTRUCTOR PERMISSION. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/overrides.**
- **STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/overrides.**
- **STUDENTS WHO ARE NOT CS MAJORS BUT HAVE SUFFICIENT SPECIAL PERMISSION (INSTRUCTOR PERMISSION IF NOT MEETING PREREQUISITE) MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/overrides.**
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- **STUDENTS WHO ARE NOT CS MAJORS BUT HAVE SUFFICIENT SPECIAL PERMISSION (INSTRUCTOR PERMISSION IF NOT MEETING PREREQUISITE) MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/overrides.**

#### PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/overrides.
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**Catalog Requisite (Pre-Req Check):**
- **Undergraduates:** COMPSCI 220 (or COMPSCI 230) and COMPSCI 240, both with a grade of C or better.
- **Undergraduates:** COMPSCI 240 and COMPSCI 311, both with a grade of B or better.
- **Systems for Data Sci:** COMPSCI 311, COMPSCI 345, and COMPSCI 377, all with a grade of B or better.
- **Intelligent Visual Computing:** COMPSCI 326 with a grade of 'A' or better.

**Class Associated Req (Elig Restrictions):**
- **Lect 01:** Junior and Senior CS Majors only.
- **Lect 02:** MS-CMPSCI Graduate Students only.
- **Lect 01:** CS Majors only.
- **Lect 02:** MS-CMPSCI Graduate Students only.
- **Lect 01:** CS Majors only.
- **Lect 02:** MS-CMPSCI Graduate Students only.

**Class Notes/Comments:**
- Informational only - does not affect SPIRE enrollment.
- **Lect 01-UG:** Lect 02-GRADS. An alternate prerequisite of Linguist 465B is acceptable for linguistics majors. Linguistics students with programming and probability experience will likely be admitted and encouraged to contact instructor. Students from other disciplines will be considered as well. 15 seats held in Lect 02 for incoming student registration. Students needing instructor permission must request overrides via the on-line form: https://www.cs.umass.edu/overrides.
- **Lect 01:** For undergrads. 8 seats held in Lect 02 for incoming student registration. Students needing special permission must request overrides via the on-line form: https://www.cs.umass.edu/overrides.
- **Lect 01:** For undergrads. 8 seats held in Lect 02 for incoming student registration. Students needing special permission must request overrides via the on-line form: https://www.cs.umass.edu/overrides.
- **Lect 01:** For undergrads. 8 seats held in Lect 02 for incoming student registration. Students needing special permission must request overrides via the on-line form: https://www.cs.umass.edu/overrides.

**Prerequisites:**
- Undergraduates: COMPSCI 326. Priority will be given to students who have not completed COMPSCI 326, COMPSCI 311, COMPSCI 383, and COMPSCI 473, all with a grade of A- or better. Students needing special permission must request overrides via the on-line form: https://www.cs.umass.edu/overrides.
- Undergraduates: COMPSCI 326. Priority will be given to students who have not completed COMPSCI 326, COMPSCI 311, COMPSCI 383, and COMPSCI 473, all with a grade of A- or better. Students needing special permission must request overrides via the on-line form: https://www.cs.umass.edu/overrides.
- Undergraduates: COMPSCI 326. Priority will be given to students who have not completed COMPSCI 326, COMPSCI 311, COMPSCI 383, and COMPSCI 473, all with a grade of A- or better. Students needing special permission must request overrides via the on-line form: https://www.cs.umass.edu/overrides.
- Undergraduates: COMPSCI 326. Priority will be given to students who have not completed COMPSCI 326, COMPSCI 311, COMPSCI 383, and COMPSCI 473, all with a grade of A- or better. Students needing special permission must request overrides via the on-line form: https://www.cs.umass.edu/overrides.
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