SPIRE REGISTRATION INFORMATION for Fall 2013

CATALOG REQUISITE (PRE-REQ CHECK):

105 CMPTR LTRCY

119 INTRO PROGRAMMING

120 PRBML SLVNG WIMPRINT

121 PRBML SLVNG WCMPTRS

187 PGMG W/DATA STRCTRS

190DM MATH FOUND-INFORMATICS

191A CMPSCI MAJORS RAP SEM

197B ST-ADV ASSIGN FOR 121

197C ST-PGMG IN C

197U ST-HANDS-ON INTRO UNIX

220 PGMG METHODOLOGY

230 CMPTR SYS PRINC

240 RISING UNDER UNCERTAINTY

CLASS ASSOCIATED REQ (ELIG RESTRICTIONS):

105

CMPTR LTRCY

NONE

NON-CMPSCI MAJORS ONLY.

119

INTRO PROGRAMMING

NONE

NON-CMPSCI MAJORS ONLY.

120

PRBML SLVNG WIMPRINT

NONE

NON-CMPSCI MAJORS ONLY.

121

PRBML SLVNG WCMPTRS

NONE

UNDERGRADUATE STUDENTS ONLY.

187

Allan

PGMG W/DATA STRCTRS

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

UNDERGRADUATE CMPSCI MAJORS ONLY.

190DM Barrington

MATH FOUND-INFORMATICS

NON-CMPSCI AND NON-MATH MAJORS ONLY.

191A Barrington, Moll

CMPSCI MAJORS RAP SEM

CMSPI RAP MAJORS ONLY.

197B Moll

ST-ADV ASSIGN FOR 121

UNDERGRADUATES ONLY.

197C Scanco

ST-PGMG IN C

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

CMPSCI MAJORS ONLY.

197U Devaughn-Brown

ST-HANDS-ON INTRO UNIX

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

CMPSCI MAJORS ONLY.

220 Wileden, Allidor

PGMG METHODOLOGY

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

CMPSCI MAJORS ONLY.

230 Richards

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

CMPSCI MAJORS ONLY.

240 Marlin

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

CMPSCI MAJORS ONLY.

CLASS NOTES/COMMENTS:

INFORMATIONAL ONLY - DOES NOT AFFECT SPIRE ENROLLMENT.

ATTENDING THE FIRST LECTURE IS MANDATORY.

MANDATORY ATTENDANCE TO FIRST CLASS MEETING IS ESSENTIAL.

MUST BE ENROLLED IN CMPSCI 121. STUDENTS NEEDING PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/ugrad-education/courses

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<table>
<thead>
<tr>
<th>Course Code</th>
<th>Instructor</th>
<th>Description</th>
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<tbody>
<tr>
<td>250</td>
<td>Barrington</td>
<td>INTRD TO CMPTN</td>
</tr>
<tr>
<td>290NW</td>
<td>Kurose</td>
<td>A NETWORKED WORLD</td>
</tr>
<tr>
<td>305</td>
<td>Trim</td>
<td>SOC ISS IN CMPTNG</td>
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<tr>
<td>311</td>
<td>Thomas</td>
<td>INTRD TO ALGRTHMS</td>
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<td>320</td>
<td>Osterweil</td>
<td>INTRD TO SFTWR ENGG</td>
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<td>325</td>
<td>Hudlicka</td>
<td>USABILITY</td>
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<td>326</td>
<td>Richards</td>
<td>WEB PGMG</td>
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<td>377</td>
<td>Shenoy</td>
<td>QPRTING SYSS</td>
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<td>390DB</td>
<td>Meliou</td>
<td>PRACT &amp; APPLCS OF DATA MGMT</td>
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<td>390MB</td>
<td>Ganesan</td>
<td>MOBILE HLTH SENSING&amp;MONITORING</td>
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<td>391B</td>
<td>Weems</td>
<td>S-HOW COMPUTERS WORK</td>
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<td>410</td>
<td>Moss</td>
<td>CMPLR TCHNS</td>
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<tr>
<td>453</td>
<td>Kurose</td>
<td>CMPTR NTWKS</td>
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**CATALOG REQUISITE (PRE-REQ CHECK):**

- MATH 132 AND CMPSCI 187 (OR E&C-ENG 242) WITH GRADE OF 'C' OR BETTER.
- ENGLWRIT 112 WITH GRADE OF 'C' OR BETTER.
- CMPSCI 250 (OR MATH 455) WITH GRADE OF 'C' OR BETTER.
- CMPSCI 220 WITH GRADE OF 'C' OR BETTER.
- CMPSCI 187 (OR E&C-ENG 242) WITH GRADE OF 'C' OR BETTER.
- CMPSCI 230 WITH GRADE OF 'C' OR BETTER.
- CMPSCI 220 (OR CMPSCI 230) AND CMPSCI 240, BOTH WITH GRADE OF 'C' OR BETTER.
- CMPSCI 187 (OR E&C-ENG 242) WITH GRADE OF 'C' OR BETTER.
- CMPSCI 187 (OR E&C-ENG 242) WITH GRADE OF 'C' OR BETTER.
- CMPSCI 187 (OR E&C-ENG 242) WITH GRADE OF 'C' OR BETTER.
- CMPSCI 250 (OR MATH 455) AND CMPSCI 377, ALL WITH A GRADE OF 'C' OR BETTER.
- CMPSCI 230 (OR CMPSCI 377) AND CMPSCI 240 (OR STATISTICS 515), BOTH WITH A GRADE OF 'C' OR BETTER.

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

- CMPSCI, MATH, AND CSENG MAJORS ONLY.
- CMPSCI MAJORS ONLY.
- CMPSCI MAJORS ONLY.
- CMPSCI MAJORS ONLY.
- CMPSCI MAJORS ONLY.
- CMPSCI MAJORS ONLY.
- JUNIOR AND SENIOR CMPSCI MAJORS ONLY.
- JUNIOR AND SENIOR CMPSCI MAJORS ONLY.

**CLASS NOTES/COMMENTS:**

- INFORMATIONAL ONLY - DOES NOT AFFECT SPIRE ENROLLMENT.
- 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 OVERRIDES (IF SEATS AVAILABLE). 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/ugrad-education/courses

- NOT INTENDED FOR CMPSCI MAJORS OR MINORS. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/ugrad-education/courses

- SATISFIES JUNIOR YEAR WRITING REQUIREMENT. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: https://www.cs.umass.edu/ugrad-education/courses

- SATISFIES INTEGRATIVE EXPERIENCE REQUIREMENT FOR CMPSCI MAJORS, CSENG MAJORS WILL BE ADMITTED ONLY IF SPACE ALLOWS. MEETS WITH CMPSCI 529. AN OPTIONAL HONORS COLLOQUIUM IS AVAILABLE FOR THIS COURSE. 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/ugrad-education/courses

- CMPSM MAJORS, 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/ugrad-education/courses

- CMPSM MAJORS, 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/ugrad-education/courses

- 15 SEATS ARE RESERVED FOR SENIORS. 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/ugrad-education/courses

- CMPSM MAJORS, 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/ugrad-education/courses

- CMPSM MAJORS, 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/ugrad-education/courses

- CMPSM MAJORS, 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/ugrad-education/courses

- 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/ugrad-education/courses
<table>
<thead>
<tr>
<th>Catalog Requisite (Pre-Req Check)</th>
<th>Class Associated Req (Elig Restrictions)</th>
<th>Class Notes/Comments: Informational Only - Does Not Affect SPIRE Enrollment</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMPSCI 377 with grade of 'C' or better.</td>
<td>Junior and senior CMPSCI majors only.</td>
<td>Prior knowledge of computer graphics preferred. Ideally the student should have taken CMPSCI 473 (or CMPSCI 591B or equivalent). Math (basic calculus, linear algebra) and Java programming skills required. Students needing special permission must request overrides via the on-line form: <a href="https://www.cs.umass.edu/ugrad-education/courses">https://www.cs.umass.edu/ugrad-education/courses</a>.</td>
</tr>
<tr>
<td>CMPSCI 187 (or E&amp;C-ENG 242) and Math 235 all with a grade of 'C' or better.</td>
<td>None</td>
<td>Attend first class meeting. Instructor will combine students with complementary backgrounds into teams. Students needing special permission must request overrides via the on-line form: <a href="https://www.cs.umass.edu/ugrad-education/courses">https://www.cs.umass.edu/ugrad-education/courses</a>.</td>
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<tr>
<td>CMPSCI 383 (or M&amp;I-ENG 310; M&amp;I-ENG 313; M&amp;I-ENG 397B; E&amp;C-ENG 313; E&amp;C-ENG 323; E&amp;C-ENG 353) with a grade of 'C' or better.</td>
<td>None</td>
<td>Students needing special permission must request overrides via the on-line form: <a href="https://www.cs.umass.edu/ugrad-education/courses">https://www.cs.umass.edu/ugrad-education/courses</a>.</td>
</tr>
<tr>
<td>UNDERGRADUATES: CMPSCI 250 and CMPSCI 311 with a grade of 'C' or better.</td>
<td>Lect 01: Undergraduates only. Lect 02: MS-CMPSC Graduate Students only.</td>
<td>Students needing special permission must request overrides via the on-line form: <a href="https://www.cs.umass.edu/ugrad-education/courses">https://www.cs.umass.edu/ugrad-education/courses</a>. LECT 01=UG; LECT 02=GRADS.</td>
</tr>
<tr>
<td>UNDERGRADUATES: CMPSCI 320 with grade of 'C' or better.</td>
<td>Lect 01: Undergraduates only. Lect 02: MS-CMPSC Graduate Students only.</td>
<td>Students needing special permission must request overrides via the on-line form: <a href="https://www.cs.umass.edu/ugrad-education/courses">https://www.cs.umass.edu/ugrad-education/courses</a>. LECT 01=UG; LECT 02=GRADS.</td>
</tr>
<tr>
<td>CMPSCI 320 with a grade of 'A-' or better.</td>
<td>None</td>
<td>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: <a href="https://www.cs.umass.edu/ugrad-education/courses">https://www.cs.umass.edu/ugrad-education/courses</a>. Lect 01=UG; Lect 02=GRADS.</td>
</tr>
<tr>
<td>CMPSCI 220 (or CMPSCI 230) with a grade of 'C' or better.</td>
<td>Lect 01: Undergraduates only. Lect 02: MS-CMPSC Graduate Students only.</td>
<td>Senior CMPSCI majors may take for credit if prerequisites for CMPSCI 410 are met with permission of instructor. Meets with CMPSCI 410. Students needing special permission must request overrides via the on-line form: <a href="https://www.cs.umass.edu/ugrad-education/courses">https://www.cs.umass.edu/ugrad-education/courses</a>.</td>
</tr>
<tr>
<td>CMPSCI 453 and CMPSCI 311 with a grade of 'C' or better.</td>
<td>None</td>
<td>Undergraduates with permission of instructor. Students needing special permission must request overrides via the on-line form: <a href="https://www.cs.umass.edu/ugrad-education/courses">https://www.cs.umass.edu/ugrad-education/courses</a>.</td>
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<tr>
<td>CMPSCI 473 (or CMPSCI 591B or equivalent)</td>
<td>None</td>
<td>ECE graduate students by permission if available seats. Students needing special permission must request overrides via the on-line form: <a href="https://www.cs.umass.edu/ugrad-education/courses">https://www.cs.umass.edu/ugrad-education/courses</a>. Meets with CMPSCI 521.</td>
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<tr>
<td>CMPSCI 410</td>
<td>None</td>
<td>Senior CMPSCI majors meeting prerequisite of CMPSCI 453 and CMPSCI 311 with a grade of 'C' or better. OR students needing instructor permission must request overrides via the on-line form: <a href="https://www.cs.umass.edu/ugrad-education/courses">https://www.cs.umass.edu/ugrad-education/courses</a>.</td>
</tr>
<tr>
<td>CMPSCI 474 (or CMPSCI 591B or equivalent)</td>
<td>None</td>
<td>ECE graduate students if available seats. CMPSCI and CSENG majors meeting prerequisite of CMPSCI 453 and CMPSCI 311 with a grade of 'C' or better. OR students needing instructor permission must request overrides via the on-line form: <a href="https://www.cs.umass.edu/ugrad-education/courses">https://www.cs.umass.edu/ugrad-education/courses</a>.</td>
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<tr>
<td>CMPSCI 474</td>
<td>None</td>
<td>Prerequisites are linear algebra, calculus 1 and 2, multivariate 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: <a href="https://www.cs.umass.edu/ugrad-education/courses">https://www.cs.umass.edu/ugrad-education/courses</a>.</td>
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<td>CMPSCI 474</td>
<td>None</td>
<td>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/ugrad-education/courses">https://www.cs.umass.edu/ugrad-education/courses</a>.</td>
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<tr>
<td>689</td>
<td>MACH LRNG</td>
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<td>690GC</td>
<td>3D MODELING &amp; SIMULATION</td>
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### Class Notes/Comments:

- **INFORMATIONAL ONLY - DOES NOT AFFECT SPIRE ENROLLMENT.**
- PERMISSION OF INSTRUCTOR FOR CMPSCI MAJORS MEETING THE PREREQUISITE OF MATH 132 AND MATH 235, AND EITHER STATISTICS 515 OR 607 OR 608. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: [https://www.cs.umass.edu/ugrad-education/course](https://www.cs.umass.edu/ugrad-education/course).
- STUDENTS TAKING THIS COURSE SHOULD HAVE UNDERGRADUATE PREPARATION IN DISCRETE MATH AND ALGORITHMS. STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: [https://www.cs.umass.edu/ugrad-education/course](https://www.cs.umass.edu/ugrad-education/course).
- THE PREREQUISITE IS A GRADUATE COURSE ON THE PRINCIPLES AND IMPLEMENTATIONS OF TRADITIONAL DATABASE SYSTEMS, AN EQUIVALENT OF CMPSCI 645. 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/ugrad-education/course](https://www.cs.umass.edu/ugrad-education/course).
- COURSE OPEN ONLY TO CMPSCI GRADUATE STUDENTS WHO HAVE PASSED PORTFOLIO. REQUEST OVERRIDES VIA THE ON-LINE FORM: [https://www.cs.umass.edu/ugrad-education/courses](https://www.cs.umass.edu/ugrad-education/courses).
- STUDENTS NEEDING SPECIAL PERMISSION MUST REQUEST OVERRIDES VIA THE ON-LINE FORM: [https://www.cs.umass.edu/ugrad-education/courses](https://www.cs.umass.edu/ugrad-education/courses).