Welcome to the Electrical Engineering and Computer Science Department!

Working toward your Minor in Computer Science is a smart way to broaden your horizons and make yourself more marketable to employers. As a CS Minor, you are welcome (and encouraged) to visit with your CS-LSA Faculty Advisor each term or so to check on your progress and seek advice about academics and computer-related career opportunities. The LSA CS Minor is open to students in CoE, LSA, Music, and Ross Business School. Students who are receiving a degree in Computer Engineering, Computer Science, and/or Electrical Engineering (or any combination of these Majors) may not declare a CS Minor.

Getting information about the LSA Computer Science Minor:
Students interested in pursuing an academic Minor in Computer Science should meet with a CS-LSA Faculty Advisor in the CSE Undergraduate Advising Office, 2808 Beyster Bldg., North Campus. Students need to use the online scheduler to make an appointment - https://www.eecs.umich.edu/eecs/undergraduate/index.html.

Declaring the LSA Computer Science Minor:
At the time you declare, you should have satisfied the prerequisites to the Minor, and either have taken or be currently taking one or more of the core courses. You must declare before you can register for any of the ULCS electives. To declare, students may either schedule an advising appointment using the link above or complete the CS Minor Declaration Request form (allow 2-3 weeks for processing): http://goo.gl/MVsv2s

Prerequisites to the Academic Minor:
- MATH 115 or Math 120 (AP), and
- Prior programming experience: EECS 182, EECS 183, ENGR 101, ENGR 151 or equivalent.

Academic Minor Program:
16 credits of courses as follows:

1. Three Core Courses (4 credits each):
   - EECS 203: Discrete Mathematics (or MATH 465)
   - EECS 280: Programming and Introductory Data Structures
   - EECS 281: Data Structures and Algorithms

2. Electives:
   - One 4-credit elective selected from:
     - EECS 482 (prereq. = EECS 370), 483, 484, 485, 487, 490, 492, or 493
   - *** You must be declared to register for any of these courses. A declared CS Minor student needs to submit a ULCS Permission request using this form: http://goo.gl/IYUz1k

A grade of “C” or better is required for all prerequisite and required CS Minor courses.

Please note that the CS Minor takes a minimum of 4 terms to complete. 1) Math 115/Math 120, EECS 182/EECS 183/ENGR 101/ENGR 151; 2) EECS 203, EECS 280; 3) EECS 281 (enforced prerequisites- EECS 203 and EECS 280); and 4) ULCS Elective (enforced prerequisite- EECS 281).

Questions about the LSA Computer Science Minor?
Contact: Professor Edmund Durfee, Chief Program Advisor (cslsaadvisor@umich.edu)
   Kristi MacKenzie, Advising Office Staff (ugadmin@eecs.umich.edu)
   EECS-CSE Undergraduate Advising Office (CSE UAO)
   2808 Beyster Bldg., North Campus
   Phone: (734) 763-6563
**LSA Minor Information:** (Per: [http://www.lsa.umich.edu/students/academicsrequirements/lsadegreesrequirements/minors](http://www.lsa.umich.edu/students/academicsrequirements/lsadegreesrequirements/minors))

A minor must require no less than 15 credits of course work, show structure and coherence, and contain some upper-level courses. At least 10 out of the 15 credits must be taken in-residence. Students who declare and complete an approved minor will receive a notation on their student transcript but not on their diploma.

**Policies for Minors - (Effective Winter 2014)**

1. Each A.B. or B.S. student who wishes to complete an approved minor must develop a plan for the minor in consultation with a department or program advisor, who must also approve it.
2. After developing a plan for its minor with the student, the program or department advisor has the minor entered on the student's record.
3. The minor is not an option available to students earning the B.G.S. degree.
4. An individually designed minor is not allowed.
5. Students may not elect courses included in a minor by the Pass/Fail grading option.
6. A department or program may include Experiential or Directed Reading/Independent Study courses that are graded on a Credit/No Credit basis in a minor, but all other courses in the minor must be taken for a grade.
7. No course may be used to satisfy the requirements of more than one minor.
8. No course may be shared between the requirements of two minors, or between a minor and an undergraduate certificate.
9. A maximum of one course may be shared between the requirements of a minor and a major.
10. If the minor has prerequisites, courses used as prerequisites to a major may also count as prerequisites to the minor.
11. Advanced Placement credits may not be used to meet the requirements of a minor, but may be used to meet prerequisites.
12. Courses elected to meet the requirements of a minor also may be part of the student's area distribution plan.
13. A student must earn an overall GPA of at least 2.0 in the minor, including any departmental prerequisites necessary for the completion of the minor.
14. Courses that are part of a student's minor may also meet the Language Requirement, the Upper-Level Writing Requirement, the Race & Ethnicity Requirement, or the Quantitative Reasoning Requirement.
15. Students may not add, complete, or declare a minor after graduation.

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### LSA COMPUTER SCIENCE Minor: 2007 – Summer 2015 Progress Sheet

<table>
<thead>
<tr>
<th>Name:</th>
<th>UM Id#/Uniqname:</th>
<th>Trans. Inst.:</th>
<th>Date:</th>
</tr>
</thead>
</table>

#### Pre-Minor (Declaration) Requirements
Courses or equivalent to those below:

<table>
<thead>
<tr>
<th>Subj.</th>
<th>Nbr.</th>
<th>Hrs.</th>
<th>Term</th>
<th>Grade</th>
<th>Note:</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH</td>
<td>115</td>
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<td></td>
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<tr>
<td>EECS</td>
<td>183</td>
<td>4</td>
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<td>*see below</td>
</tr>
</tbody>
</table>

#### CS Minor Program Core: 12 cr. min.
All courses below:

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<thead>
<tr>
<th>Subj.</th>
<th>Nbr</th>
<th>Hrs</th>
<th>Term</th>
<th>Grade</th>
<th>Note:</th>
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</thead>
<tbody>
<tr>
<td>EECS</td>
<td>203**</td>
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<tr>
<td>EECS</td>
<td>280</td>
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<tr>
<td>EECS</td>
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#### Upper-Level CS Elective: 4 cr. min.
Choose **one** from below: * Students must be declared and receive permission to register for a ULCS course!

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<th>Subj.</th>
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<th>Hrs</th>
<th>Term</th>
<th>Grade</th>
<th>Note:</th>
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</thead>
<tbody>
<tr>
<td>EECS</td>
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<tr>
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<tr>
<td>EECS</td>
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<tr>
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<td>EECS</td>
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*EECS 183 or EECS 182 or ENGR 101 or ENGR 151 or equivalent programming experience

**Or MATH 465

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*LSA students must consult with their LSA Newnan Advisor in Angell Hall to discuss college requirements.
*Engineering students should meet with their Program (Major) Advisor.

*Students should meet with their Program or Concentration Advisors to discuss major requirements and how they may interact with the minor.*