



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 schedule an appointment with your CS-LSA Faculty Advisor each term 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; School of Information; LSA; School of Music, Theatre & Dance; Stamps School of Art & Design; College of Pharmacy; and Ross School of Business. Students who are receiving a degree in Computer Engineering, Computer Science, or Data Science (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 should use the online scheduler to make an appointment: cse.engin.umich.edu/academics/for-current-students/advising/

Declaring the LSA Computer Science Minor

At the time you declare, you should have satisfied the prerequisites to the Minor, and either have taken previously or be enrolled in and attending one or more of the core courses in the current term. You must also be in good academic standing and have a declared major. You must declare before you can register for any of the approved 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>

Course Prerequisites to the Academic Minor (2 courses required):

- Math: MATH 115, Math 120 (AP), or any course that satisfies the EECS 203 prerequisite
- Programming: EECS 180 (AP), EECS 183, ENGR 101, or ENGR 151.

Academic Minor Program (16 credits of courses as follows):

1. Three Core Courses (4 credits each):

- EECS 203: Discrete Mathematics (or MATH 465/565)
- EECS 280: Programming and Introductory Data Structures
- EECS 281: Data Structures and Algorithms

2. Approved CS Minor Elective Course: One 4-credit elective selected from:

EECS 388*, 482*, 483* 484, 485, 487, 490, 492, or 493 (*EECS 482 and 483 have EECS 370 as an additional prerequisite. 370 is also an advisory prerequisite for EECS 388, though it is not required.) **You must be declared to request enrollment in one of these courses. Declared CS Minor students must submit a CS Elective permission request using this form: <http://goo.gl/IYUz1k>.** Only one Elective course is permitted per CS Minor student. We are unable to accommodate enrollment in any additional courses.

A grade of “C” or better is required for all prerequisite, required, and elective CS Minor courses. (See Wolverine Access for additional EECS 281 prerequisite grade information.) Students are limited to attempting each of (EECS 203, EECS 280, and EECS 281 at most twice. An attempt includes, but is not limited to, a notation of any letter grade (“A-F”), withdraw (“W”), Pass/Fail (“P”/“F”), Transfer (“T”), or Incomplete (“I”) posted on your U-M transcript. Any attempt from WN20 through FA20 term is not counted in this limit. Exceptions can be granted by the CS-LSA Chief Program Advisor *only in extraordinary circumstances.*

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

Questions about the LSA Computer Science Minor?

Contact: EECS-CSE Undergraduate Advising Office (ugadmin@eecs.umich.edu)
2808 Beyster Bldg. (North Campus) | Phone: (734) 763-6563

LSA Minor Information: (<https://lsa.umich.edu/lsa/academics/lsa-requirements/minors.html>)

A minor must require no less than 15 credits of course work, show structure and coherence, and contain some upper-level courses. At least 9 out of the 15 credits must be taken in-residence (at least 3 of the 4 required CS Minor courses). 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 2020)

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. After developing a plan with the student, the program or department advisor has the minor entered on the student's record.
2. A minor is not an option available to students earning the B.G.S. degree.
3. An individually designed minor is not allowed.
4. **Students may not elect the pass/fail grading option for courses included in a minor.**
5. A department or program may include 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.
6. No course may be shared between the requirements of more than one minor.
7. No course may be shared between the requirements of a minor and a supplemental studies program.
8. **A maximum of one course may be shared between the requirements of a minor and a major, regardless of the U-M school/college in which a student is pursuing a degree.** If a student has more than one major, the shared minor course can be different for each major (course "A" with the first major, course "B" with the second major, etc.). It's also acceptable for students to share the same course in their minor with multiple majors (course "A" with the first and the second major).
9. If the minor has prerequisites, courses used as prerequisites to a major may also count as prerequisites to the minor.
10. Test credits may not be used to meet the requirements of a minor, but they may be used to meet prerequisites.
11. Courses elected to meet the requirements of a minor may also be part of the student's area distribution plan.
12. 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.
13. Courses that are part of a student's minor may also meet the Language Requirement, the Upper-Level Writing Requirement, the Race and Ethnicity Requirement, or the Quantitative Reasoning Requirement.
14. Students may not add, complete, or declare a minor after graduation.

LSA COMPUTER SCIENCE Minor Progress Sheet					
Name:		Date:		UMID:	
Pre-Minor (Declaration) Requirements					College Requirements
Course	Hours	Term	Grade	Note:	<i>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.</i>
MATH 115	4				
EECS 183*	4				
*EECS 180 (AP) or EECS 183 or ENGR 101 or ENGR 151					
CS Minor Program Core: 12 cr. min.					
Course	Hours	Term	Grade	Note:	<i>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.</i>
EECS 203 (or MATH 465/565)	4				
EECS 280	4				
EECS 281	4				
Approved CS Elective: 4 cr. min.; choose ONE below. (Students must be declared and request permission to register for the elective course!)					
Course	Hours	Term	Grade	Note:	<i>Students should meet with their Program/Major Advisors to discuss major requirements and how they may interact with the minor. Only ONE COURSE may be shared between a major and the CS minor, regardless of the school/college in which the student is pursuing a degree.</i>
EECS 388	4				
EECS 482	4				
EECS 483	4				
EECS 484	4				
EECS 485	4				
EECS 487	4				
EECS 490	4				
EECS 492	4				
EECS 493	4				
Program/Major Requirements					