

## Computer Science Major Plan (CSMaP)

Complete this form with the help of a CS professor

Name: \_\_\_\_\_ Expected Graduation Year: \_\_\_\_\_

### Foundational Courses:

Course	Prerequisite(s)	Term, Year
CSCI 121: Principles of Computer Science	None	
CSCI 221: Intro to Data Structures in C++	CSCI 121	
MATH 220: Elementary Linear Algebra	CSCI 221 or Calculus I	

### Required Courses:

Course	Prerequisite(s)	Term, Year
CSCI 241: Hardware Design	CSCI 221	
CSCI 251: Software Design	CSCI 221	
MATH 234: Discrete Math Reasoning	CSCI 221 or Calculus II	
CSCI 263: Ethical Issues in Software Design	CSCI 251	
CSCI 353: Analysis of Algorithms	CSCI 251 and MATH 234	

**Electives:** At least three are required, with at least one at 300-level.

**Designated Electives:** At least two are required.

Course	Prerequisite(s)	Term, Year
CSCI 2xx: Machine Learning	CSCI 221	
CSCI 273: Operating Systems	CSCI 241	
CSCI 276: Programming Languages	CSCI 251	
CSCI 379: Artificial Intelligence	CSCI 251 and MATH 234	
CSCI 333: Theory of Computation	MATH 234	
Other:	Discuss with CS Director	

### Other Electives:

Course	Prerequisite(s)	Term, Year
CSCI 200 or CSCI 300: Topics in CS Course:	Varies	
CSCI 284: Mobile Computing Applications	CSCI 251	
CSCI 390 or CSCI 391: Senior Capstone	CSCI 263 and CSCI 353	
MATH 261: Computational Geometry	CSCI 221 and MATH 234	
SDS 333: High-Dimensional Data Analysis	MATH 220 and SDS 164	
SDS 341: Algorithms for Decision Making	SDS 164 or SDS 264	
PHYS 246: Electronics	PHYS 125 or PHYS 131	
Other:	Discuss with CS Director	

Student Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Faculty Signature: \_\_\_\_\_ Date: \_\_\_\_\_

CS Director Signature: \_\_\_\_\_ Date: \_\_\_\_\_