

Computer Science Pathway Year 2 Fall Term Start (4 Year Sample Path)

Updated July 2022 to support recommended CS322 & Ethics, Concentrations, CS Early Start M.S., CS Accelerated Master's Program, OR Major Transfer Map

	Fall Term	Winter Term	Spring Term	
Year 1	CS 110 Fluency w/Info Tech	CS 111 Intro to Web Programming	CS 122 (1) Intro to Prog & Prob Solv	
	MATH 111 College Algebra	MATH 112 Elementary Functions	MATH 251 or 261 or 246 Calculus I	
	WR 121 College Composition I	WR 122 College Composition II	Core Ed (Arts & Letters)	
	Core Ed (Social Science)	Core Ed (Art & Letters)	Core Ed (Social Science)	
Year 2 (2)	CS 210 Computer Science I	CS 211 Computer Science II	CS 212 Computer Science III	
	MATH 252 or 262 or 247 Calculus II	MATH 231 Discrete Math I	MATH 232 Discrete Math II	
	Science/Minor (3)	Science/Minor (3)	Science/Minor (3)	
	Core Ed (Arts & Letters)	Core Ed (Social Science)	Core Ed (Arts & Letters)	
Year 3 (4)	CS 322 (5) Intro to Software Eng	CS 313 Intermediate Data Structures	CS 315 Intermediate Algorithms	Internship or REU (6) CS 404/CS 399
	CS 314 Computer Organization	CS 330 C/C++ and Unix	CS 415 Operating Systems	
	Math Choice Group	Math Choice Group	Math Upper Division Elective	
	Minor/UO Elective	Minor/UO Elective	Minor/UO Elective	
Year 4	CS 425 Principles of Prog Lang	CS 422 Software Methodology I (7)	CS Upper Division Elective (9) (10)	
	CS Upper Division Elective (7) (8)	CS Upper Division Elective (8) (9)	CS Upper Division Elective (8) (9)	
	WR 320 or 321 Sci & Tech or Bus Comm	UO Elective	PHIL 223 Data Ethics (11)	

Math Core Requirements

Students must take Discrete Mathematics 231 and 232, and two terms of Calculus (I and II). In addition, students must take two of the following:

- MATH 233 Discrete Mathematics III
- *Choose 1:* [MATH 253 Calculus III OR MATH 263 Calculus with Theory III]
- MATH 341 Linear Algebra I
- *Choose 1:* [MATH 343 Statistical Models/Methods OR MATH 343M Probability and Statistics for Data Science OR MATH 425 Statistical Methods I]

Laboratory Science Requirements

Students must complete one three-term sequence chosen from the following:

- General Physics: PHYS 201, 202, 203
- Foundations of Physics: PHYS 251, 252, 253
- General Chemistry: CH 221, 222, 223
- Honors General Chemistry: CH 224H, 225H, 226H
- Geological Sciences: GEOL 201, 202, 203 (ERTH 201, 202, 203)
- Geography: GEOG 141, *choose 2:* [GEOG 321, GEOG 322, GEOG 323]
- Biology: *choose 1:* [CH 111, CH 113, CH114, CH 221, CH 224H], BI 211, *choose 1:* [BI 212, BI 213]
- Psychology: PSY 201, *choose 2:* [PSY 301, PSY 304, PSY 305, PSY 348]

Notes

- (1) CIT 281 for CIT minor.
- (2) Check out CS and UO student organizations (see <https://cs.uoregon.edu/activities/student-groups>).
- (3) A computing-related minor may substitute for CS additional science sequence with approved petition.
- (4) Schedule a major progress review advising appointment for upper-division majors (see <https://cs.uoregon.edu/undergraduate/computer-science-advising>).
 - . Attend CS 407 Career/Internship seminar (Mondays during the academic year 3:30-4:50 p.m.; all are welcome).
 - . Begin to make summer internship or Research Experience for Undergrads (search on “NSF REU Computer Science”) plans.
- (5) CS 322 recommended, else UO elective
- (6) 404 Internship (2 cr.) may be combined with CS 407 Career/Internship Seminar (2 cr.) taken in any regular AY term in the last two years of the major.
- (7) possible CS Early Start M.S. Course
- (8) possible concentration (formerly track) course; must be numbered 410 or higher
- (9) possible CS Accelerated Master’s Program (AMP) course
- (10) possible capstone (CS 423) or individual study course (e.g., CS 401, 403).
- (11) PHIL 223 Data Ethics recommended, else other Social Science Core Ed course