

## CS Course Prerequisites

Course	Prerequisites/Corequisites
CS 101 Introduction to Computer Science	None
CS 139 Programming Fundamentals	None
CS 149 Introduction to Programming	MATH 155/156 or sufficient score on the Math placement exam
CS 159 Advanced Programming	B- or better in CS 139/149
CS/MATH 227 Discrete Structures I	MATH 155/156 or sufficient score on the Math placement exam, and CS 159 previously or concurrently (corequisite)
CS 240 Algorithms and Data Structures	C- or better in CS/MATH 227 or MATH 245, CS 159, MATH 231 and CS major/minor status
CS 260 Technical Writing for Computer Science	CS major/minor status
CS 261 Computer Systems I	C- or better in CS 159 and CS major/minor status
CS 280 Projects in Computer Science	Permission
CS 327 Discrete Structures II	C- or better in CS/MATH 227 or MATH 245, and CS 240
CS 330 Societal and Ethical Issues in Computing	None
CS 345 Software Engineering	C- or better in CS 159 and CS major/minor status
CS 347 Web-Based Information Systems	C- or better in CS 345 and CS 159
CS 349 Developing Interactive Multimedia	C- or better in CS 240
CS 354 Introduction to Autonomous Robotics	C- or better in CS 240
CS 361 Computer Systems II	C- or better in CS 240 and CS 261
CS 430 Programming Languages	C- or better in CS 240 and CS 261
CS 432 Compiler Construction	C- or better in CS 327 and CS 361
CS 442 Logic in Computer Science	Junior or senior standing
CS 444 Artificial Intelligence	C- or better in CS 240
CS 446 Software Analysis and Design	C- or better in CS 240 and CS 345
CS 447 Interaction Design	Junior or senior standing standing and major/minor status
CS 450 Operating Systems	C- or better in CS 361
CS 452 Design and Analysis of Algorithms	C- or better in CS 240 and CS 327
CS 456 Computer Architecture	C- or better in CS 361
CS 457 Information Security	CS 361 previously or concurrently (corequisite)
CS 458 CyberDefense	C- or better in CS 361 and CS 457
CS/ISAT 461 Internetworking	CS 361 or ISAT 460
CS 462 Network Applications Development	C- or better in CS 361
CS 470 Parallel and Distributed Computing	C- or better in CS 361
CS 474 Database Design and Application	C- or better in CS 159 and CS 345
CS 475 Distributed Database Management	C- or better in CS 474
CS 476 Database Administration	C- or better in CS 474
CS 480 Selected Topics in Computer Science	C- or better in CS 159 or permission
CS 482 Selected Topics in Information Security	C- or better in CS 240 and CS 261
CS 488 Computer Graphics	C- or better in CS 240 and CS 261
CS 497 Independent Study	Permission
CS 499 Honors	Permission