

Curriculum Report: Computer Science

Overview

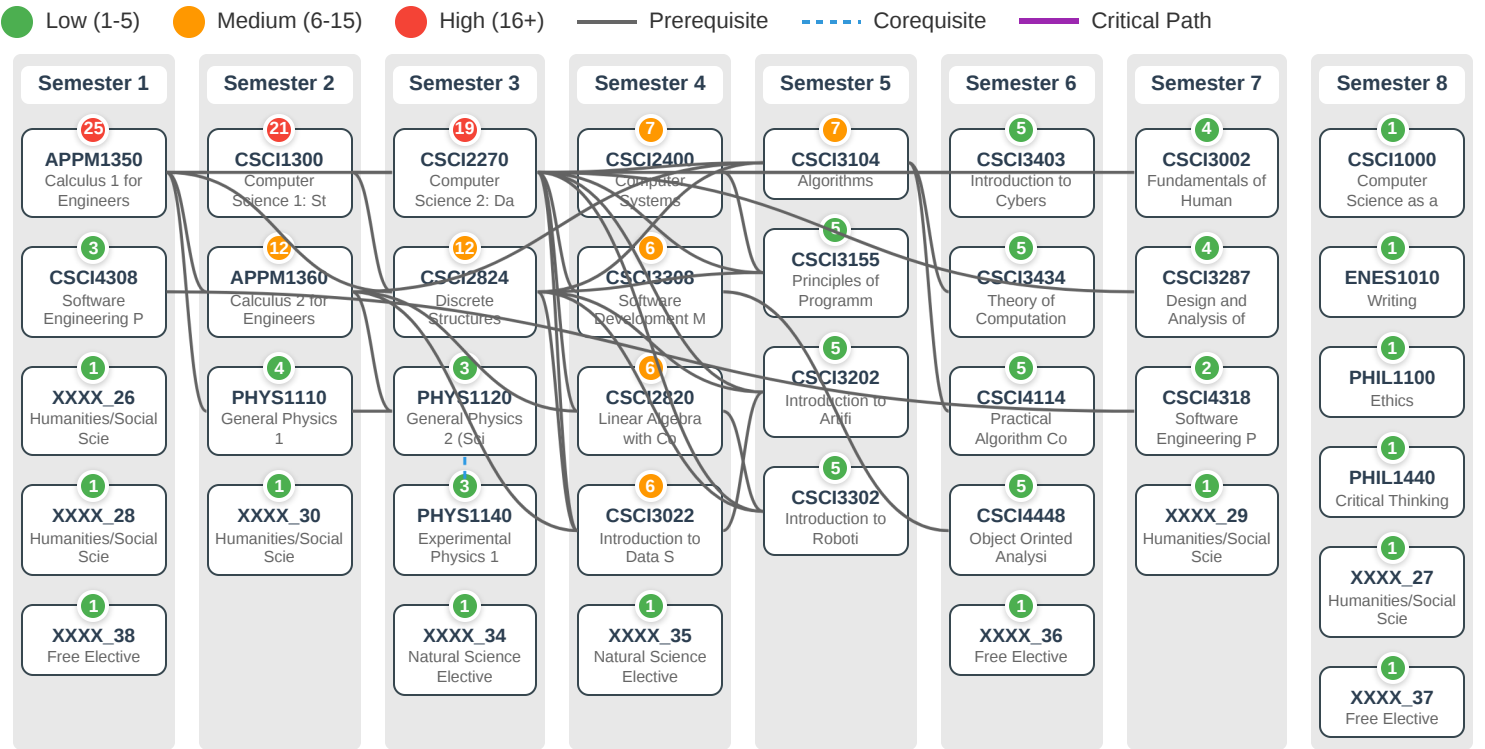
INSTITUTION University of Colorado Boulder	DEGREE BS Computer Science	SYSTEM semester	YEARS 4
CIP CODE 11.07	TOTAL CREDITS 128.0	TOTAL COURSES 38	

Complexity Metrics

TOTAL COMPLEXITY 193	LONGEST DELAY 5 CSCI1300	HIGHEST CENTRALITY 98 CSCI2270
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Critical Path: APPM1350 → CSCI2270 → CSCI2400 → CSCI3403

Curriculum Graph



Term Schedule

Term	Courses	Credits
1	APPM1350 Calculus 1 for Engineers CSCI4308 Software Engineering Project 1 XXXX_26 Humanities/Social Sciences XXXX_28 Humanities/Social Sciences XXXX_38 Free Elective	18.0
2	CSCI1300 Computer Science 1: Starting Computing APPM1360 Calculus 2 for Engineers PHYS1110 General Physics 1 XXXX_30 Humanities/Social Sciences	15.0
3	CSCI2270 Computer Science 2: Data Structure CSCI2824 Discrete Structures PHYS1120 General Physics 2 (Science Elective) PHYS1140 Experimental Physics 1 (Science Elective) XXXX_34 Natural Science Elective	16.0
4	CSCI2400 Computer Systems CSCI3308 Software Development Methods and Tools CSCI2820 Linear Algebra with Computer Science Applications CSCI3022 Introduction to Data Science with Probability and Statistics XXXX_35 Natural Science Elective	17.0
5	CSCI3104 Algorithms CSCI3155 Principles of Programming Languages CSCI3202 Introduction to Artificial Intelligence (Computer Science Core Elective) CSCI3302 Introduction to Robotics (Computer Science Core Elective)	14.0
6	CSCI3403 Introduction to Cybersecurity for a Converged World (Computer Science Core Elective) CSCI3434 Theory of Computation (CS Elective) CSCI4114 Practical Algorithm Complexity (CS Elective) CSCI4448 Object Oriented Analysis and Design XXXX_36 Free Elective	17.0
7	CSCI3002 Fundamentals of Human Computer Interaction (Computer Science Core Elective) CSCI3287 Design and Analysis of Database Systems (Computer Science Core Elective) CSCI4318 Software Engineering Project 2 XXXX_29 Humanities/Social Sciences	14.0
8	CSCI1000 Computer Science as a Field of Work and Study ENES1010 Writing PHIL1100 Ethics PHIL1440 Critical Thinking XXXX_27 Humanities/Social Sciences XXXX_37 Free Elective	17.0

Course Metrics

Course	Name	Cr	Cplx	Blk	Dly	Ctr
APPM1350	Calculus 1 for Engineers	4.0	25	20	5	0
CSCI1300	Computer Science 1: Starting Computing	4.0	21	16	5	82
CSCI2270	Computer Science 2: Data Structure	4.0	19	14	5	98
APPM1360	Calculus 2 for Engineers	4.0	12	8	4	19
CSCI2824	Discrete Structures	3.0	12	7	5	48
CSCI2400	Computer Systems	4.0	7	2	5	18
CSCI3104	Algorithms	4.0	7	2	5	44
CSCI3308	Software Development Methods and Tools	3.0	6	1	5	9
CSCI2820	Linear Algebra with Computer Science Applications	3.0	6	1	5	13
CSCI3022	Introduction to Data Science with Probability and Statistics	3.0	6	1	5	22
CSCI3155	Principles of Programming Languages	4.0	5	0	5	0
CSCI3202	Introduction to Artificial Intelligence (Computer Science Core Elective)	3.0	5	0	5	0
CSCI3302	Introduction to Robotics (Computer Science Core Elective)	3.0	5	0	5	0
CSCI3403	Introduction to Cybersecuirty for a Converged World (Computer Science Core Elective)	4.0	5	0	5	0
CSCI3434	Theory of Computation (CS Elective)	3.0	5	0	5	0
CSCI4114	Practical Algorithm Complexity (CS Elective)	3.0	5	0	5	0
CSCI4448	Object Orinted Analysis and Design	3.0	5	0	5	0
CSCI3002	Fundamentals of Human Computer Interaction (Computer Science Core Elective)	4.0	4	0	4	0
CSCI3287	Design and Analysis of Database Systems (Computer Science Core Elective)	3.0	4	0	4	0
PHYS1110	General Physics 1	4.0	4	1	3	3
CSCI4308	Software Engineering Project 1	4.0	3	1	2	0
PHYS1120	General Physics 2 (Science Elective)	4.0	3	0	3	0
PHYS1140	Experimental Physics 1 (Science Elective)	1.0	3	1	2	0
CSCI4318	Software Engineering Project 2	4.0	2	0	2	0
CSCI1000	Computer Science as a Field of Work and Study	1.0	1	0	1	0
PHIL1440	Critical Thinking	3.0	1	0	1	0
PHIL1100	Ethics	3.0	1	0	1	0
ENES1010	Writing	3.0	1	0	1	0
XXXX_26	Humanities/Social Sciences	3.0	1	0	1	0
XXXX_27	Humanities/Social Sciences	3.0	1	0	1	0
XXXX_28	Humanities/Social Sciences	3.0	1	0	1	0
XXXX_29	Humanities/Social Sciences	3.0	1	0	1	0
XXXX_30	Humanities/Social Sciences	3.0	1	0	1	0

Course	Name	Cr	Cplx	Blk	Dly	Ctr
XXXX_34	Natural Science Elective	4.0	1	0	1	0
XXXX_35	Natural Science Elective	4.0	1	0	1	0
XXXX_36	Free Elective	4.0	1	0	1	0
XXXX_37	Free Elective	4.0	1	0	1	0
XXXX_38	Free Elective	4.0	1	0	1	0

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