Department of Computer Science & Engineering
UNIVERSITY OF COLORADO DENVER

Bachelor of Arts in Computer Science
Plus Data Science Minor

Core General Education (24 credit hours)	Credits	Notes
ENGL 1020 Core Composition I	3	
ENGL 2030 Core Composition II	3	
Social Science	3	
Behavioral Science	3	
Humanities	3	
Arts	3	
Cultural Diversity	3	
International Perspectives	3	
Math (7 credits)		
MATH 1401 Calculus I	4	
MATH elective (2000-level or higher)	3	see Data Science minor section below
Science (8 credit hours) **A sequence of 2 Natural or Physical Sciences with lab**	8	
CS Core (22 credit hours)		
CSCI 1410 Fundamentals of Computing	3	
CSCI 1411 Fundamentals of Computing Lab	1	
CSCI 2312 Object-Oriented Programming	3	
CSCI 2421 Data Structures & Programming Design	3	
CSCI 2511 Discrete Structures	3	
CSCI 3287 Database Systems	3	
CSCI 3412 Algorithms	3	
CSCI 3508 Introduction to Software Engineering	3	
CS Technical Electives (21 credit hours) **CSCI 3000-level and above courses not applied to CS Core**		
CS Elective	3	
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Free Electives (38 credit hours)		
with Data Science Minor		
Choose one:	will count for both CS math requirement and data science minor	
MATH 2830 Introductory Statistics		
MATH 3800 Prob/Stat for Engineers		Pre-req: MATH 2421
MATH 3382 Statistical Theory		Pre-req: MATH 2421
Choose one:	3	
MATH 4830 Applied Statistics		Pre-req: MATH 2830
MATH 4387 Applied Regression Analysis		Pre-reqs: MATH 3800 or 3382, MATH 3191 or 3195
Complete the following:		
MATH 1376 Programming for Data Science	3	
MATH 3376 Data Wrangling and Visualization	3	Pre-reqs: Math 1376 or 4387, Math 2830 or 3382
2 eligible electives (see math advisor)	6	
Remaining free electives	23	
Total Credits	**120**	

Note: This checklist was created based on 2019-20 catalog year requirements. See your advisor to create your CS+ plan of study.

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