BA in CS Undergraduate Curriculum – Fall 2023

First Year

13 Hours (F)

- **CSCI 1410** Fundamentals of Computing 3 hours
- **CSCI 1411** Fundamentals of Computing Lab 1 hour
- **ENGR 1200** First Year Design 3 hours *recommended as a free elective choice
- **ENGL 1020** Core Comp I 3 hours
- **Gen Ed Core** 3 hours

16 Hours (SP)

- **CSCI 2312** Obj Oriented Programming 3 hours — **Pre Req: CSCI 1410 & 1411**
- **Free Elective Area of Concentration**
- **Free Elective Area of Concentration**
- **MATH 1401** Calculus I 4 hours
- **ENGL 2030** Core Comp II 3 hours — **Pre Req: ENGL 1020**

Second Year

16 Hours (F)

- **CSCI 2421** Data Structures & Prog. Design 3 hours — **Pre Req: CSCI 2312**
- **CSCI 2511** Discrete Structures 3 hours — **Pre Req: MATH 1401**
- **Free Elective Area of Concentration**
- **Science 1** 3 hours
- **Science 1 Lab** 1 hour
- **Gen Ed Core** 3 hours

16 Hours (SP)

- **CSCI 3412** Algorithms 3 hours — **Pre Req: CSCI 2421 & 2511**
- **CSCI 3/4xxx** Technical Elective 3 hours
- **Free Elective Area of Concentration**
- **Math 2000 level elective**
- **Science 2** 3 hours
- **Science 2 Lab** 1 hour

Third Year

15 Hours (F)

- **CSCI 3508** Software Engineering 3 hours — **Pre Req: CSCI 3412**
- **CSCI 3/4xxx** Technical Elective 3 hours
- **Free Elective Area of Concentration**
- **Free Elective Area of Concentration**
- **Gen Ed Core** 3 hours

15 Hours (SP)

- **CSCI 3287** Database Systems 3 hours — **Pre-Req: CSCI 2421 & ENGL 1020**
- **CSCI 3/4xxx** Technical Elective 3 hours
- **Free Elective Area of Concentration**
- **Free Elective Area of Concentration**
- **Gen Ed Core** 3 hours

Fourth Year

15 Hours (F)

- **CSCI 3/4xxx** Technical Elective 3 hours
- **CSCI 3/4xxx** Technical Elective 3 hours
- **Free Elective Area of Concentration**
- **Free Elective Area of Concentration**
- **Gen Ed Core** 3 hours

15 Hours (SP)

- **CSCI 3/4xxx** Technical Elective 3 hours
- **CSCI 3/4xxx** Technical Elective 3 hours
- **Free Elective Area of Concentration**
- **Free Elective Area of Concentration**
- **Gen Ed Core** 3 hours

Students may apply 3 credits of approved internship as a CS Technical Elective after successful completion of CSCI 3508.

CS CORE | CS ELECTIVE | FREE ELECTIVE | MATH | SCIENCE | GEN ED CORE

Science Choice 1: Nat & Phys Science Course w/Lab intended for Science Majors
Science Choice 2: Nat & Phys Science Course w/Lab
Please refer to the CU Core Curriculum Natural & Physical Sciences knowledge area for course selection

Department of Computer Science & Engineering
UNIVERSITY OF COLORADO DENVER