# Best Choices Guide

## Computer Engineering (BS)

The Computer Engineering Concurrent program is designed for students who wish to begin at PPSC and finish their degree program at UCCS in Computer Engineering. Since many lower-level courses are only offered through UCCS, students will need to be concurrently enrolled at both PPSC and UCCS to complete the program in 4 years. Please note that final graduation requirements for the bachelor's degree will be based on your year of admission to UCCS. Contact transfer@uccs.edu for more information.

To earn the Associate of General Studies Degree, students must complete the following course requirements for a total minimum of 60 semester credit hours, at least 30 of which must be general education courses and at least 15 must be from Colorado State-Guaranteed courses. Courses taken at other colleges, AP, IB, CLEP, DSST, and other sources of credit may not be applicable upon transfer to UCCS even if applied to the associate's degree at CCCS. Check the CDHE's GT Pathways website for more information.

| Degree Requirements | Courses |
|---|---|
| **Written Communication** (3 hours) | • ENG 121/1021 |
| **Mathematics** (21 hours) | • MAT 201/2410<br>• MAT 202/2420<br>• MAT 203/2430<br>• MAT 215/2520<br>• MAT 265/2560 |
| **Arts & Humanities** (3 hours) | • Complete one GT-AH course (GT-AH1) (GT-AH2) (GT-AH3) (GT-AH4) |
| **Social & Behavioral Sciences** (3 hours) | • Complete one GT-SS course (GT-SS1) (GT-SS2) (GT-SS3) |
| **Physical and Life Sciences** (10 hours) | • PHY 211/2111<br>• PHY 212/2112 |

| Additional Requirements (24 hours) | PPSC Courses | |
|---|---|---|
| | CSC 160/1060 | 4 |
| Courses recommended by UCCS for this degree. | CSC 161/1061 | 4 |
| | CSC 230/2030 | 3 |
| | **UCCS Concurrent Courses** | |
| | CS 2080 | 2 |
| **NOTE: UCCS courses will transfer to PPSC for the AGS degree.** | ECE 1001 | 3 |
| | ECE 1411 | 2 |
| | ECE 2411 | 2 |
| | ECE 2610 | 4 |

**Additional Resources**

The UCCS transfer website (transfer.uccs.edu) has many additional resources for students transferring from CCCS to UCCS.

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## Four-Year Degree Plan - Computer Engineering

The following four-year plan lists all the specific course requirements for the Bachelor of Science in Computer Engineering degree at UCCS. PPSC courses are listed in bold. The order in which these courses are taken may vary with course availability. **Students are responsible for completing all course prerequisites.** Please note that this is a *suggested* degree program; your program may vary.

**NOTE: Please be aware that completing the concurrent program will require an additional 2 credit hours to complete the Computer Engineering degree due to differences in hours for math and science courses.**

### Suggested First Year

| √ | FALL Course | Hours | √ | SPRING Course | Hours |
|---|---|---|---|---|---|
| | **MAT 201/2410** | **5** | | **MAT 202/2420** | **5** |
| | **CSC 160/1060** | **4** | | **CSC 161/1061** | **4** |
| | **ENG 121/1021** | **3** | | **PHY 211/2111** | **5** |
| | ECE 1001 | 3 | | **CSC 230/2030** | **3** |
| | | | | | |
| | **TOTAL** | 15 | | **TOTAL** | 17 |

### Suggested Second Year

| √ | FALL Course | Hours | √ | SPRING Course | Hours |
|---|---|---|---|---|---|
| | **MAT 203/2430** | **4** | | **MAT 215/2520** | **4** |
| | **PHY 212/2112** | **5** | | **MAT 265/2560** | **3** |
| | ECE 1411 | 2 | | **Social and Behavioral Science Course[1]** | **3** |
| | ECE 2610 | 4 | | **Arts and Humanities Course[1]** | **3** |
| | CS 2080 | 2 | | ECE 2411 | 2 |
| | **TOTAL** | 17 | | **TOTAL** | 15 |

### Suggested Third Year

| √ | FALL Course | Hours | √ | SPRING Course | Hours |
|---|---|---|---|---|---|
| | CS 3060 | 3 | | TCID 2090 | 3 |
| | ECE 2205 | 4 | | CS 3300 | 3 |
| | ECE 3210 | 3 | | ECE 3440 | 1 |
| | ECE 3420 | 1 | | ECE 3610 | 3 |
| | ECE 3430 | 3 | | ECE 4480 | 3 |
| | ECE 4242 | 3 | | Humanities elective[1] | 3 |
| | **TOTAL** | 17 | | **TOTAL** | 16 |

### Suggested Fourth Year

| √ | FALL Course | Hours | √ | SPRING Course | Hours |
|---|---|---|---|---|---|
| | CS 4500 | 3 | | ECE 4899 | 3 |
| | CS 4720 | 3 | | Technical Electives | 7 |
| | ECE 4330 | 3 | | Basic Science Course[2] | 4 |
| | ECE 4891 | 1 | | Humanities OR Social Science elective[1] | 3 |
| | Technical Elective | 3 | | | |
| | Social Science elective[1] | 3 | | | |
| | **TOTAL** | 16 | | **TOTAL** | 17 |

**[1]Humanities/Social Science Note**

A minimum of 15 hours of humanities and social science courses are required.

- Complete at least 6 hours from the following departments: AH, ENGL (non-composition courses only), HIST, HUM, Languages (culture courses only), MUS (except choir and lessons), and PHIL.
- Social Science - Complete 6 hours from: ANTH, COMM, ECON, GES, GRNT, PSC, PSY, SOC and WEST.
- Complete an additional 3 hours from either social science or humanities courses.

*Be sure to check with the Engineering Advisor to ensure that your Humanities/Social Science electives will meet the above requirements, especially with course level and distribution.*

**[2]Basic Science Note**

Complete remaining hours, beyond Physics, from the following: BIOL 1300/1310, 1350/1360 (BIO 111/1111 or 112/1112 at PPSC); CHEM 1401/1402, 1411/1412 (CHE 111/1111, 112/1112 at PPSC); GEOL 1001, 1020 (GEY 111/1111, 112/1112 at PPSC)

**Transfer Completion**

After completing the AGS, you should be able to complete the remainder of your BS degree in Computer Engineering in two additional years if you have followed the transfer plan in its entirety (see below for details). However, most students take 1 to 3 classes in the summer to relieve their spring and fall semester loads.

# Best Choices Guide

## UCCS Bachelor of Science, Computer Engineering Concurrent Program Requirements

**Application Process:**

*1. Admission Criteria*

Students must meet one set of criteria listed below before they can apply to the program.

*Criteria 1* – Students with fewer than 15 credit hours of college level course work will be evaluated based on typical freshman admission criteria to the College of Engineering and Applied Science. Generally students who meet the following **minimum** requirements will be seriously considered for the concurrent program:

21+ ACT or 1020+ SAT composite score

21+ ACT or 510+ SAT math score

19+ ACT or 450+ SAT English/Verbal score

3+ years of high school math to include either pre-calculus or trigonometry

3.2+ high school GPA or top 40% of class, whichever is higher

Students also will need to meet all Higher Education Admission Requirements (HEAR).

*Criteria 2* – Students who do not meet Criteria 1 and have completed at least 15 hours of college level course work (not including remedial course work) can apply to the program once they meet the following criteria:

2.4 or higher transfer GPA

A grade of "B" or better in one of the following courses: MAT 122/1420, 166/1440 or 201/2410

**NOTE: Meeting the criteria of either set is not a guarantee of admission to the program, but rather a minimum requirement a student should attain before attempting application.**

*2. Application*

Application to the Engineering Concurrent Program requires admission to UCCS. Students will need to apply through the UCCS online application and will need to write "Engineering Concurrent Program" in the essay section of the application. The application also will require additional materials listed on the online application.

*3. Deadlines*

For Summer admission – May 1st

For Fall admission – July 1st

For Spring admission – December 1st

**Financial Aid**

Students who qualify for Financial Aid will need to work with both campuses to set up their award package. See the Financial Aid offices on each campus for more details.

**UCCS Contact Information**

Academic Advising: Home | Advising (uccs.edu)

Concurrent Program advising: Engineering Advisor, advising@uccs.edu

(719) 255-3260

**Required Academic Advising**

Concurrent program participants are required to see their academic advisors at each campus before being able to register for the following semester. Participants also are required to submit transcripts from each campus after grades have been posted to remain in the program.

**Recommendations**

The UCCS Transfer Website contains answers to several transfer questions, provides extra resources, and information about transfer events (transfer.uccs.edu). UCCS applications are good for one year. Students wanting to attend UCCS are encouraged to apply up to one year in advance in order to meet FAFSA and scholarship deadlines. Visit the UCCS campus by registering for a tour at visit.uccs.edu. Prospective transfer students are encouraged to contact the UCCS Transfer Advisor at **transfer@uccs.edu** with any questions or concerns about transferring.