

# Best Choices Guide

## Electrical Engineering (BS)

The Electrical Engineering Concurrent program is designed for students who wish to begin at PPCC and finish their degree program at UCCS in Electrical Engineering. Since many lower level courses are only offered through UCCS, students will need to be concurrently enrolled at both PPCC and UCCS to complete the program in 4 years.

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   |   |
|---|---|---|
| <b>Written Communication</b><br>(3 hours)   | <ul style="list-style-type: none"> <li>ENG 121</li> </ul>   |   |
| <b>Mathematics</b><br>(17 hours)  | <ul style="list-style-type: none"> <li>Complete MAT 201, MAT 202, MAT 203, and MAT 265</li> </ul>   |   |
| <b>Arts &amp; Humanities</b><br>(3 hours)   | <ul style="list-style-type: none"> <li>Complete one GT-AH course (<a href="#">GT-AH1</a>) (<a href="#">GT-AH2</a>) (<a href="#">GT-AH3</a>) (<a href="#">GT-AH4</a>)</li> </ul> |   |
| <b>Social &amp; Behavioral Sciences</b><br>(3 hours)  | <ul style="list-style-type: none"> <li>Complete one GT-SS course (<a href="#">GT-SS1</a>) (<a href="#">GT-SS2</a>) (<a href="#">GT-SS3</a>)</li> </ul>                          |   |
| <b>Physical and Life Sciences</b><br>(15 hours)   | <ul style="list-style-type: none"> <li>Complete PHY 211, PHY 212, and CHE 111</li> </ul>  |   |
| <b>Additional Requirements</b>  |   |   |
| <b>Additional Requirements</b><br>(27 hours)<br><br>Courses recommended by UCCS for this degree.<br><br><b>NOTE: UCCS courses will transfer to PPCC for the AGS degree.</b> | <b>PPCC Courses</b>   |   |
|   | 1 additional Humanities/Social Science course   | 3 |
|   | <b>UCCS Courses</b>   |   |
|   | ECE 1001  | 3 |
|   | ECE 1021  | 3 |
|   | ECE 1411  | 2 |
|   | ECE 2050  | 3 |
|   | ECE 2205  | 4 |
|   | ECE 2411  | 2 |
|   | ECE 2610  | 4 |
| PES 2130  | 3   |   |

### Foreign Language Note – UCCS

UCCS admission requirements include 2 years of the same high school foreign language (or equivalent 2 semesters at a Colorado Community College). Students planning to attend UCCS who do not have the prerequisite foreign language requirement should consider enrolling in these courses in addition to the degree requirements. Students who do not meet this requirement will need to fulfill it upon transferring to UCCS. This admission requirement does not apply to those who graduated from high school prior to 1988, who have a GED, who graduated from a non-U.S. high school, or who can prove proficiency in a foreign language through the 2<sup>nd</sup> semester at college level. **Please check with the Transfer Advisor ([transfer@uccs.edu](mailto:transfer@uccs.edu)) to see if this requirement applies to you.**

### Additional Resources

The UCCS transfer website ([transfer.uccs.edu](http://transfer.uccs.edu)) has many additional resources for students transferring from CCCS to UCCS.

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## Four-Year Degree Plan - Electrical Engineering

The following four-year plan lists all the specific course requirements for the Bachelor of Science in Electrical Engineering degree at UCCS. PCC 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 4 credit hours to complete the Electrical Engineering degree due to differences in hours for math and science courses.**

### Suggested First Year

| FALL |  |       | SPRING |                                    |       |
|------|--|-------|--------|------------------------------------|-------|
| √    | Course   | Hours | √      | Course                             | Hours |
|      | <b>MAT 201</b>   | 5     |        | <b>MAT 202</b>                     | 5     |
|      | <b>ENG 121</b>   | 3     |        | <b>PHY 211</b>                     | 5     |
|      | <b>Basic Science Course (CHE 111 strongly recommended)</b> | 3-5   |        | <b>Arts and Humanities Course*</b> | 3     |
|      | ECE 1001   | 3     |        | ECE 1021                           | 3     |
|      | ECE 1411   | 2     |        | ECE 2411                           | 2     |
|      | <b>TOTAL</b>   | 16-18 |        | <b>TOTAL</b>                       | 18    |

### Suggested Second Year

| FALL |  |       | SPRING |   |       |
|------|--|-------|--------|---|-------|
| √    | Course                                       | Hours | √      | Course  | Hours |
|      | <b>MAT 203</b>                               | 4     |        | <b>MAT 265</b>                                | 3     |
|      | <b>PHY 212</b>                               | 5     |        | <b>Humanities or Social Science elective*</b> | 3     |
|      | <b>Social and Behavioral Science Course*</b> | 3     |        | ECE 2050                                      | 3     |
|      | ECE 2610                                     | 4     |        | ECE 2205                                      | 4     |
|      |  |       |        | PES 2130                                      | 3     |
|      | <b>TOTAL</b>                                 | 16    |        | <b>TOTAL</b>                                  | 16    |

### Suggested Third Year

| FALL |              |       | SPRING |  |       |
|------|--------------|-------|--------|--|-------|
| √    | Course       | Hours | √      | Course   | Hours |
|      | ECE 3020     | 3     |        | TCID 2090  | 3     |
|      | ECE 3205     | 4     |        | ECE 3110   | 3     |
|      | ECE 3210     | 3     |        | ECE 3220   | 3     |
|      | ECE 3230     | 1     |        | ECE 3240   | 1     |
|      | ECE 3420     | 1     |        | ECE 3610   | 3     |
|      | ECE 3430     | 3     |        | Electrical Engineering Electives (lecture & lab) | 4     |
|      | <b>TOTAL</b> | 15    |        | <b>TOTAL</b>                                     | 17    |

### Suggested Fourth Year

| FALL |  |       | SPRING |  |       |
|------|--|-------|--------|--|-------|
| √    | Course   | Hours | √      | Course                                     | Hours |
|      | ECE 4890   | 1     |        | ECE 4898                                   | 3     |
|      | Electrical Engineering Electives (lecture & lab) | 4     |        | Electrical Engineering Electives (lecture) | 3     |
|      | Technical Electives                              | 6     |        | Electrical Engineering Electives (lecture) | 3     |
|      | MATH Elective (MATH 3110 or higher, except 3810) | 3     |        | Technical Elective                         | 3     |
|      | Humanities elective* (Inclusiveness/WIC)         | 3     |        | Social Science elective* (Sustainability)  | 3     |
|      | <b>TOTAL</b>                                     | 17    |        | <b>TOTAL</b>                               | 15    |

#### \*Humanities/Social Science Note

- A minimum of 15 hours of humanities and social science courses are required.
- Select at least one course from the following: ANTH, COMM, ECON, GES, GRNT, PSC, PSY, SOC and WEST.
- Select at least one course from the following: AH, ENGL (non-composition courses only), HIST, HUM, Languages (culture courses only), MUS (except choir and lessons), and PHIL.

*Be sure to check with the Engineering Advisor to ensure that your Humanities/Social Science electives will meet the above requirements.*

#### Transfer Completion

After completing the AGS, you should be able to complete the remainder of your BS degree in Electrical 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.

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## 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, 166 or 201

**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 1<sup>st</sup>

For Fall admission – July 1<sup>st</sup>

For Spring admission – December 1<sup>st</sup>

### 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](https://www.uccs.edu/home) | [Advising \(uccs.edu\)](https://www.uccs.edu/advising)

Concurrent Program advising: Engineering Advisor, [advising@uccs.edu](mailto: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](https://www.uccs.edu/transfer)). 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](https://www.uccs.edu/visit). Prospective transfer students are encouraged to contact the UCCS Transfer Advisor at [transfer@uccs.edu](mailto:transfer@uccs.edu) with any questions or concerns about transferring.