CIVIL ENGINEERING

Associate of Science degree



Program and Career Description:

Most careers in engineering require a bachelor's degree or higher so the Associate of Science in Civil Engineering is designed for students wanting to complete the first two years of the bachelor's degree in a community college setting. Our students work closely with science and math faculty and have ample access to science and computer labs. Below are a few examples of career and salary estimates for engineering. Please note that this pathway requires 66 credit hours and recommends one summer semester. Students will need to meet the requirements for MATH 1910 before their freshman fall semester.

Career	Entry-Level Education	Entry-Level Pay	Median Pay	Experienced Pay
Civil Engineers	Bachelor's degree	\$61,520	\$86,715	\$111,910
Electrical and Electronics Engineers	Bachelor's degree; MS or PhD for some jobs	\$59,190	\$80,000	\$101,820

Career and salary information taken from *JOBS4TN.GOV*. Check out this website for additional information about job descriptions, education requirements and abilities, and supply and demand for these careers. For additional information from a national perspective, go to Bureau of Labor Statistics, U. S. Department of Labor on the internet at *www.bls.gov*. Visit the <u>Occupational Outlook Handbook</u> on this website. Salaries are not guaranteed.

Transfer Options

This program is a Tennessee Transfer Pathway (TTP) major. A student who completes the associates degree in this major is guaranteed that all required community college courses will be accepted in this major at the transfer institution. To see which four-year institutions offer this TTP major and guarantees a seamless transfer, visit the Tennessee Transfer Pathway website at www.tntransferpathway.org.

Articulation agreements exist between other private and non-TN public institutions. These agreements are available at www.columbiastate.edu/admissions/transfer-information.



CIVIL ENGINEERING

Major in Tennessee Transfer Pathway with Emphasis in Civil Engineering (A.S.)

Program Requirements

Students may be required to take additional Learning Support courses.

Communications Requirement COMM 2025 or COMM 2055 ENGL 1010, 1020

History Requirement (Take 2 courses) HIST 2010, 2020, 2030, 2310, 2320

Humanities/Fine Arts (Take 3 courses -- one must be a literature course)
ART 1035, 2000, 2020
ENGL 2160, 2860
HUM 1010, 1020
MUS 1030
PHIL 1030, 1040, 2200
THEA 1030
Literature Options: ENGL 2055, 2130, 2235, 2310, 2320

Natural Sciences Requirement PHYS 2110, 2120

Mathematics Requirement MATH 1910

Social/Behavioral Sciences (Take 2 courses) ANTH 1230, 1430 ECON 2100, 2200 GEOG 2010 MCOM 1110 PHED 2120 POLS 1010, 1030, 2025, 2035 PSYC 1030, 2130

Major Required Courses CHEM 1110 COLS 101 ENGR 2110, 2120 MATH 1920, 2110, 2120 MATH 2010 or MATH 2050

SOCI 1010, 1040, 2010

If you have completed TN eCampus courses, run a degree audit from the student tab in myChargerNet to determine how these courses apply to this program.

Requirements for Graduation include:

- earning 25% of total program credits in residence at Columbia State.
- earn a cumulative GPA of 2.0 or higher.
- taking the Exit Exam.

For more information contact: Dr. Ryan Badeau at rbadeau@columbiastate.edu or 615.465.5752

Barbara Cowan at bcowan2@columbiastate.edu or 931.540.2703 or Science, Technology & Math Division Office

at 931.540.2710

Sample Academic Plan

Students requiring MATH 1130 and MATH 1730 should take these courses prior to beginning the following pathway to ensure timely completion.

First Year - Fall Semester

MATH 1910* History Require PHYS 2110	ement Calculus-Based Physics I Columbia State College Success	3 4 3 4 1 15
ENGL 1020 MATH 1920 History Require	English Composition II Calculus II ement Calculus-Based Physics II	3 4 3 4 14
	Fundamentals of Communication <u>or</u> Argumentation and Debate	3 3 6
MATH 2110 ENGR 2110 CHEM 1110 Humanities/Fin Social/Behavio	Statics General Chemistry I ne Arts oral Science	4 3 4 3 3 17
MATH 2050	ne Arts	3 3 3 3 15

TOTAL CREDIT HOURS 67

*Critical Course - Higher achievement in identified courses is predictive of graduation success.

The Associate of Science Civil Engineering Major requires 67 college-level credits. This is a transfer program which was granted an exception to the 60-hour limit requirement reached through Tennessee Board of Regents consensus. The exception was granted due to additional hours needed to adequately cover the necessary learning outcomes in the program. Some courses have prerequisites and corequisites. See the Columbia State Catalog for more information.