

USEG: Exploratory Studies Engineering Interest

CSU's Walter Scott Jr. College of Engineering has six majors plus one dual-degree major.

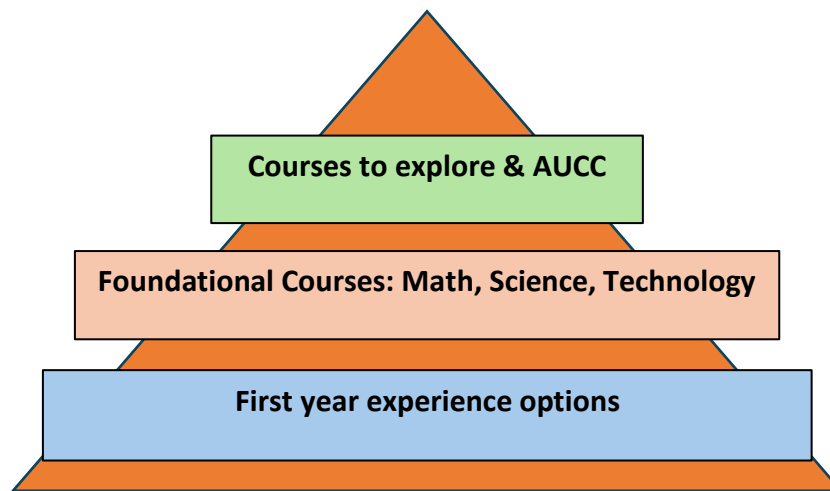
Biological & Chemical Engineering**	Civil Engineering	Computer Engineering **
Electrical Engineering**	Environmental Engineering	Mechanical Engineering**
**Dual degree options in Biomedical Engineering		

Important note: CSU has many STEM-related majors OUTSIDE of the College of Engineering. Be sure to check out all of the options on the Exploratory Studies website. **Major Track: [Math, Physical Science and Engineering](#)**

College of Engineering Entrance Requirements:

Grade of B or higher in Calculus 1 (MATH160)	Grade of C or better in EITHER <ul style="list-style-type: none"> • General Chemistry (CHEM111), OR • Physics for Scientists & Engineers (PH141) 	2.75 cumulative GPA of all college credits
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Important note: There are limited courses available to Exploring Engineering Interest students until they meet the entrance requirements to declare. Some majors (such as Mechanical Engineering) allow students to take their introductory engineering course at the same time as Calculus 1.



The course registration pyramid – our framework for course selection

FIRST YEAR EXPERIENCE options – choose one:

First year experience options are for first-time, first-year students. They include a first-year seminar course designed to foster connection, academic success, and exploration. Please talk with your advisor about the option best for you.

Key communities Cluster (seminar + 2 AUCC classes)	Seminar Super-Cluster (IU172 + composition + & AUCC Arts & Humanities class)	Seminar Cluster (IU172 + composition class)	Stand-alone seminar (IU172)	Explorer’s Challenge (independent exploration)
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FOUNDATIONAL engineering course options (depends on math):

Important note: All engineering majors require calculus. Students should complete all pre-calculus credits (or test out of them) as early as possible so they can take calculus. Completing the math placement tool is critical prior to orientation (or first day of classes).

1 ST Semester (algebra / pre-calculus ready)	2 nd Semester
<p>Math:</p> <ul style="list-style-type: none"> • 1 credit pre-calculus options (MATH117, 118, 124, 125, 126 – depends on placement), OR • Pre-Calculus course (MATH127) <p>Technology (also AUCC Humanities):</p> <ul style="list-style-type: none"> • Culture and Coding: Python (CS150B) 	<p>Math:</p> <ul style="list-style-type: none"> • Calculus 1 (MATH160) <p>Science:</p> <ul style="list-style-type: none"> • General Chemistry and lab (CHEM111/112), <p>Technology (if applicable):</p> <ul style="list-style-type: none"> • Computer Programming (CS164) <p>DECLARE AT END OF FIRST YEAR</p>
1 st semester (ready for Calculus)	2 nd semester
<p>Math:</p> <ul style="list-style-type: none"> • Calculus 1 (MATH160) <p>Science:</p> <ul style="list-style-type: none"> • General Chemistry and lab (CHEM111 / 112) <p>Technology:</p> <ul style="list-style-type: none"> • Culture and Coding: Python (CS150B) <p>DECLARE AT END OF FIRST SEMESTER</p>	<p>Math:</p> <ul style="list-style-type: none"> • Calculus 2 (MATH161) <p>Science:</p> <ul style="list-style-type: none"> • General Chemistry 2 and lab (CHEM113/114), OR • Biology (LIFE102 or LIFE103), OR • Physics (PH141) <p>Technology (if applicable):</p> <ul style="list-style-type: none"> • Computer Programming (CS164)

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COURSES AVAILABLE in ENGINEERING:

- CS201 or PHIL201 – Ethical Computing Systems (also satisfies AUCC 3B: Arts & Humanities)
- ECE102: Digital Circuit Logic
- ENGR101: Introduction to the Grand Challenges of Engineering (fall only – must be calculus ready)
- MECH103: Introduction to Mechanical Engineering

Please consult the **Exploring Math, Physical Science & Engineering major track curriculum guide** for classes that help you explore STEM-related majors.

AUCC options: Please visit <https://catalog.colostate.edu/general-catalog/all-university-core-curriculum/>

