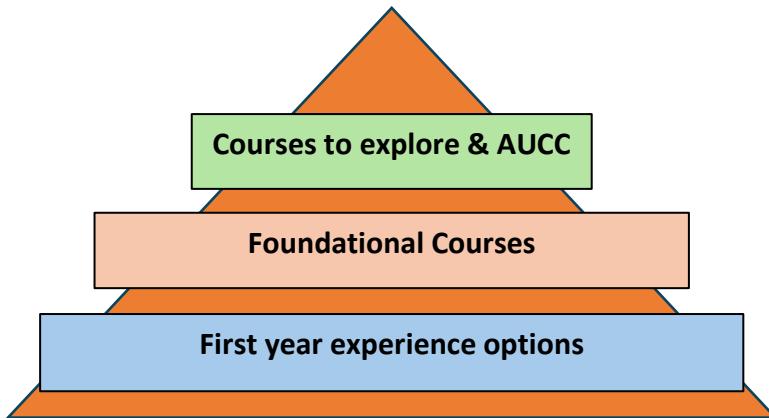


## **EXPE: Exploring Math, Physical Science & Engineering**

Your interests may include technology, product design, and understanding how science & math relate to the world around you. Be sure to check out all of the options on the Exploratory Studies website. [Major Track: Exploring Math, Physical Science & Engineering](#)



**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.

<b>Key communities Cluster</b> (seminar + 2 AUCC classes) <i>**must apply and be admitted to the Key communities**</i>	<b>Seminar Cluster</b> (IU172 + composition class) <i>**some students pre-registered, but open to all students**</i>	<b>Stand-alone seminar</b> (IU172)	<b>Explorer's Challenge</b> (independent exploration)
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### **FOUNDATIONAL course options:**

**Important note:** All majors in this track require calculus. Students should plan to take calculus as early as possible. If it is not taken in the first semester, it should be taken in the second semester immediately after completing or testing out of pre-calculus. Completing the math placement tool prior to orientation (or the first day of classes) is critical to staying on track.

1 <sup>st</sup> Semester (ready for algebra / pre-calculus)	2 <sup>nd</sup> Semester
<b>Math:</b> <ul style="list-style-type: none"><li>1 credit pre-calculus options (MATH117, 118, 124, 125, 126 – depends on placement)</li></ul> <b>Science:</b> <ul style="list-style-type: none"><li>Problem Solving in Chemistry (CHEM105) - if <u>tested out of MATH117 and 118 (algebra)</u>, OR</li></ul>	<b>Math:</b> <ul style="list-style-type: none"><li>Calculus 1 (MATH160, 155 or 141)</li></ul> <b>Science:</b> <ul style="list-style-type: none"><li>General Chemistry and lab (CHEM111/112), OR</li><li>Biology (LIFE102 or LIFE103), OR</li><li>Computer Programming (CS164)</li></ul>

<ul style="list-style-type: none"> <li>General Chemistry and lab (CHEM111 / 112) - if <u>tested out of MATH117 &amp; 118 (algebra)</u>, OR</li> <li>Biology (LIFE102 or LIFE103)</li> </ul>	
<b>1<sup>st</sup> semester (ready for Calculus)</b> <p><b>Math:</b></p> <ul style="list-style-type: none"> <li>Calculus 1 (MATH160, 155 or 141)</li> </ul> <p><b>Science:</b></p> <ul style="list-style-type: none"> <li>General Chemistry and lab (CHEM111 / 112)</li> <li>Biology (LIFE102 or 103),</li> </ul>	<b>2<sup>nd</sup> semester</b> <p><b>Math:</b></p> <ul style="list-style-type: none"> <li>Calculus 2 (MATH161, 255), or no math</li> </ul> <p><b>Science:</b></p> <ul style="list-style-type: none"> <li>General Chemistry 2 and lab (CHEM113/114), OR</li> <li>Biology (LIFE102 or LIFE103), OR</li> <li>Physics (PH141), OR</li> <li>Computer Programming (CS164)</li> </ul>

## COURSES TO EXPLORE and AUCC requirements:

- AA 100/101: Introduction to Astronomy w/ lab (satisfies AUCC 3A: Biological & Physical Science)
- CHEM 111/112: General Chemistry I w/ lab (satisfies AUCC 3A: Biological & Physical Science)
- CON 101: Introduction to Construction Management (must declare CM minor for access to course)
- CS 150b: Culture and Coding – Python (satisfies AUCC 3B: Arts & Humanities)
- ECON202: Principles of Microeconomics (satisfies AUCC 3C: Social & Behavioral Science)
- ERHS 220: Environmental Health (can be taken with or after LIFE 102)
- GEOL 120: Geology and Society (satisfies AUCC 3A: Biological & Physical Science)
- GEOL 122: Geoscience – Climate and Environmental Change (satisfies AUCC 3A: Biological & Physical Science)
- GEOL 150: Dynamic Earth (satisfies AUCC 3A: Biological & Physical Science)
- GES101: Introduction to Sustainability
- GES141: Introduction to Sustainable Energy
- GR100: Introduction to Geography (also satisfies AUCC 3C: Social & Behavioral Science)
- IDEA 210: Introduction to Design Thinking (satisfies AUCC 3B: Arts & Humanities)
- IU173: Thinking toward a Thriving Planet (also satisfies AUCC categories – varies by topic)
- LIFE 102: Attributes of Living Systems (satisfies AUCC 3A: Biological & Physical Science)
- LIFE 103: Biology of Organisms – Animals and Plants (satisfies AUCC 3A: Biological & Physical Science)
- MIP 101: Introduction to Human Disease and Immunity
- PHIL 201 – Ethical Computing Systems (satisfies AUCC 3B: Arts & Humanities)
- PSY 100: Introduction to Psychology (satisfies AUCC 3C: Social & Behavioral Science)
- PSY152: Science of Learning (also satisfies AUCC 3C: Social & Behavioral Science)
- STAT 158: Introduction to R Programming

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