

Earth Sciences - AS-T

By Quarter Overview

First Quarter

- COLL 101: College Success 101 (2 credits)
- ENGL& 101: English Composition I (5 credits)
- CHEM& 161: General Chem w/ Lab I (5 credits)
- ERSI 104: Introduction to Earth Sciences (5 credits)

Meet with faculty advisor (lowercolumbia.edu/advising/meet-with-advisor)

Apply for FAFSA (lowercolumbia.edu/pay-for-college/financial-aid)

Second Quarter

- CHEM& 162: General Chem w/Lab II (5 credits)
- MATH& 141: Precalculus I (6 credits)
- GEOL& 101: Intro Physical Geology (5 credits)

Meet with faculty advisor (lowercolumbia.edu/advising/meet-with-advisor)

Decide on transfer university; research transfer requirements; contact transfer university advisor (lowercolumbia.edu/university-center)

Third Quarter

- CHEM& 163: General Chem w/Lab III (5 credits)
- SOC& 101: Intro to Sociology (5 credits)
- MATH& 142: Precalculus II (5 credits)

Meet with faculty advisor (lowercolumbia.edu/advising/meet-with-advisor)

Fourth Quarter

- PHYS& 221: Engr Physics I w/Lab (5 credits)
- HIST& 126: World Civilization I (5 credits)
- MATH& 151: Calculus I (5 credits)

Meet with faculty advisor (lowercolumbia.edu/advising/meet-with-advisor)

Apply for FAFSA (lowercolumbia.edu/pay-for-college/financial-aid)

Contact transfer university advisor

Apply to transfer university

Fifth Quarter

- PHYS& 222: Engr Physics II w/Lab (5 credits)
- MATH& 152: Calculus II (5 credits)
- HIST& 127: World Civilization II (5 credits)

Meet with faculty advisor (lowercolumbia.edu/advising/meet-with-advisor)

Apply for Spring graduation (lowercolumbia.edu/graduation)

Sixth Quarter

- PHYS& 223: Engr Physics III w/Lab (5 credits)
- MATH& 153: Calculus III (5 credits)
- OCEA& 101: Intro to Oceanography (5 credits)

Spring Graduation (lowercolumbia.edu/commencement)

Detailed Class Sequence

1. College Success

COLL 101: College Success 101 (2 credits)

2. Communications Requirement

ENGL& 101: English Comp I (5 credits)

- *Prerequisites: College level reading and writing skills or completion of ENGL 099 or TECH 105 with a grade of C or better.*

3. Chem Pre-Major Requirement

CHEM& 161: General Chemistry w/ Lab I (5 credits)

- *Prerequisites: CHEM& 100 or high school chemistry and MATH 098.*

4. Geo Pre-Major Requirement

ERSI 104: Intro to Earth Sciences (5 credits)

5. Chem Pre-Major Requirement

CHEM& 162: General Chemistry w/ Lab II (5 credits)

- *Prerequisites: CHEM& 161*

6. Elective

MATH& 141: Precalculus I (6 credits)

- *Prerequisites: C or better in MATH 098, B or better in ABE 092, or placement.*

7. Geo Pre-Major Requirement

GEOL& 101: Intro to Physical Geology (5 credits)

8. Chem Pre-Major Requirement

CHEM& 163: General Chemistry w/ Lab III (5 credits)

- *Prerequisites: CHEM& 162*

9. Humanities/Social Science Requirement

SOC& 101: Intro to Sociology (5 credits)

10. Elective

MATH& 142: Precalculus II (5 credits)

- *Prerequisites: C or better in MATH& 141.*

11. Physics Pre-Major Requirement

PHYS& 221: Engineering Physics I w/ Lab (5 credits)

- *Prerequisites: Completion of or concurrent enrollment in MATH& 151 or instructor permission.*

12. Humanities/Social Science Requirement

HIST& 126: World Civilization I (5 credits)

13. Quantitative Requirement

MATH& 151: Calculus I (5 credits)

- *Prerequisites: MATH& 142 with a grade of C or better.*

14. Physics Pre-Major Requirement

PHYS& 222: Engineering Physics II w/ Lab (5 credits)

- *Prerequisites: PHYS& 221, MATH& 152 or instructor permission.*

15. Quantitative Requirement

MATH& 152: Calculus II (5 credits)

- *Prerequisite: MATH& 151 with a grade of C or better.*

16. Humanities/Social Sciences Requirement

HIST& 127: World Civilization II (5 credits)

17. Physics Pre-Major Requirement

PHYS& 223: Engineering Physics III w/ Lab (5 credits)

- *Prerequisites: PHYS& 222 or instructor permission.*

18. Math Pre-Major Requirement

MATH& 153: Calculus III (5 credits)

- *Prerequisite: MATH& 152 with a grade of C or better.*

19. Geo Pre-Major Requirement

OCEA& 101: Intro to Oceanography (5 credits)



Program Maps for Science, Technology, Engineering and Math (STEM) (lowercolumbia.edu/program-maps/stem)

- **Bioengineering and Chemical Pre-Engineering AS-T (Chemical Option) (lowercolumbia.edu/program-maps/stem/AST-Bioengineering-and-Chemical-Pre-Engineering-Chemical-Option)**
- **Bioengineering and Chemical Pre-Engineering AS-T (Bioengineering Option) (lowercolumbia.edu/program-maps/stem/AST-Bioengineering-and-Chemical-Pre-Engineering-Bioengineering-Option)**
- **Biological Sciences - AS-T (lowercolumbia.edu/program-maps/stem/AST-Biological-Sciences)**
- **Biology - DTA/MRP (lowercolumbia.edu/program-maps/stem/DTA-MRP-Biology)**
- **Chemistry - AS-T (lowercolumbia.edu/program-maps/stem/AST-Chemistry)**
- **Computer Science - AST (lowercolumbia.edu/program-maps/stem/AST-Computer-Science)**
- **Computer Science AS-T (WSU-V) (lowercolumbia.edu/program-maps/stem/AST-Computer-Science-WSU-V)**
- **Computer and Electrical Pre-Engineering - AS-T COMP E EE/MRP (2 year) (lowercolumbia.edu/program-maps/stem/AST-Computer-and-Electrical-Pre-Engineering-2-year)**
- **Computer and Electrical Pre-Engineering - AS-T COMP E EE/MRP (3 year) (lowercolumbia.edu/program-maps/stem/AST-Computer-and-Electrical-Pre-Engineering-3-year)**
- **Earth Sciences - AA-DTA (lowercolumbia.edu/program-maps/stem/AADTA-Earth-Sciences)**
- **Earth Sciences - AS-T (lowercolumbia.edu/program-maps/stem/AST-Earth-Sciences)**
- **Environmental Science - AS-T (lowercolumbia.edu/program-maps/stem/AST-Environmental-Science)**
- **Mechanical, Civil, Aeronautical, Industrial, Materials Science Engineering - AS-T (2 year) (lowercolumbia.edu/program-maps/stem/AST-Mechanical-Civil-Aeronautical-Industrial-Materials-Science-Engineering-2-year)**
- **Mechanical, Civil, Aeronautical, Industrial, and Materials Science Engineering AS-T (3 year) (lowercolumbia.edu/program-maps/stem/AST-Mechanical-Civil-Aeronautical-Industrial-Materials-Science-Engineering-3-year)**
- **Physics - AS-T (lowercolumbia.edu/program-maps/stem/AST-Physics)**
- **Physics - AS-T (Math Transfer Option) (lowercolumbia.edu/program-maps/stem/AST-Physics-Math-Transfer-Option)**