

**A.S. EARTH AND PLANETARY SCIENCE**

Department: Physical Sciences

Total credits: 60

**COLLEGE REQUIREMENTS****CREDITS**

- Successful completion of CUNY Tests in Reading and Writing and the COMPASS Math Skills Test with passing examination scores or developmental courses may be required.
- One (1) Writing Intensive course in any discipline from any category below is required. Participation in a Learning Community that includes ENG 1200 or 2400 also satisfies this requirement.
- Two (2) Civic Engagement experiences—satisfied by CE-Certified or CE-Component courses or approved outside activity. Refer to the *Degree Requirements* section of this catalog.

**CUNY CORE**

Approved Required and Flexible Core courses are listed in the General Education: CUNY Pathways section of this catalog. **When Required or Flexible Core courses are specified for a category, they are required for the major.**

**REQUIRED CORE:**

ENG 1200	3
ENG 2400	3
Mathematical & Quantitative Reasoning: MAT 1500√ or MAT 1600√	4
Life and Physical Sciences: CHM 1100 or PHY 1100 or EPS 3100 or EPS 3200 or EPS 3300 or EPS 3500 or EPS 3600 or EPS 3800	4

**FLEXIBLE CORE:** ◇

One course from each Group A – E plus an additional course from any Group. **No more than two courses in the same discipline.** 20

A. World Cultures and Global Issues

B. U.S. Experience In Its Diversity

C. Creative Expression

D. Individual &amp; Society

E. Scientific World: MAT 1500√ or MAT 1600√ or CHM 1100 or PHY 1100 or EPS 3100 or EPS 3200 or EPS 3300 or EPS 3500 or EPS 3600 or EPS 3800 (if not taken for Required Core)

Plus another course selected from any Group E list above (if not taken for Required or Flexible Core)

**DEGREE REQUIREMENTS §**

**If not taken for the CUNY Required Core or Flexible Core, the following are required:**

Calculus I and II (MAT 1500√ and MAT 1600√)	8
General Chemistry I (CHM 1100)	4
General Physics I (PHY 1100)	4
Physical Geology (EPS 3300)	4
Meteorology (EPS 3100)	4
Oceanography (EPS 3200)	4
Astronomy (EPS 3500)	4
Planetology (EPS 3600)	4
Introduction to Earth Science (EPS 3800)	4

**ELECTIVES:** 2 credits sufficient to meet the required total 60 credits for the degree.

§ Consultation with the Department Advisor is required.

√ Refer to course descriptions for pre-requisites, co-requisites and/or pre/co-requisites

◇ This program has a waiver to require particular courses in the Common Core, otherwise more than the minimum credits for the degree may be necessary.

### **STUDENT LEARNING OUTCOMES**

Demonstrate an understanding of the Earth's subsystems

CHM 1100 PHY 1100 MAT 1500 MAT 1600 EPS 3100 EPS 3200 EPS 3300 EPS 3800

Be able to describe the interaction and evolution of these subsystems on different temporal and spatial scales

CHM 1100 PHY 1100 MAT 1600 EPS 3100

Demonstrate an understanding of the nature of human interactions with the Earth subsystems

CHM 1100 MAT 1500 EPS 3500

Demonstrate a recognition of the relevance of the Earth system to the individual and to society

CHM 1100 PHY 1100 MAT 1500 MAT 1600 EPS 3100 EPS 3200

Recognize, describe, and analyze the types of natural hazards and natural resources

CHM 1100 MAT 1600 EPS 3100 EPS 3800

Demonstrate an understanding of the nature of scientific knowledge and its historical development

CHM 1100 MAT 1500 MAT 1600 EPS 3300