

GEP

Environmental Science Major Requirements [rev. 9/19/13]

Degree Requirements: 40 courses are required for graduation. These 40 courses are comprised of:
 A) GEP Signature Core, B) GEP Variable courses, C) free electives, D) GEP Integrative Learning Courses, E) Major Requirements, and F) Overlays..

A. GEP Signature Core Courses All non-transfer students must take these 6 Courses at SJU.	Semester completed
1. PHL 154 Moral Foundations	
2. THE 154 Faith, Justice & the Catholic Tradition	
3. ENG 102 Texts and Contexts (pre-req: ENG 101)	
4. HIS 154 Forging the Modern World	
5. First Year Seminar	
6. Faith and Reason Course (pre-req: THE 154 and PHL 154)	

Environmental Science Program Contact information

Dr. Jonathan Fingerut, Program Director
 SC 221
 jfingeru@sju.edu
 610-660-1830

B. GEP Variable Course (Maximum 9 courses)	Course(s) required Please note students may earn AP credit and/or use transfer credits to meet these requirements.	Semester Completed
Fine Arts or Literature	One course	
Mathematics (Beauty)	MAT 155 (Fundamentals of Calculus) or MAT 161 (Calculus I)	
Natural Science	BIO 101/101L Biology I: Cells	
Non-native Language	1-2 courses at the level in which the student is placed. <i>Please Note:</i> only one course is required if placed at the 301 level (or higher). If placed lower than 301, two courses are required.	
Social/Behavioral Science	One course	
Philosophy (Philosophical Anthropology)	One course	
Theology (Religious Difference)	One course. The course used to satisfy this requirement cannot be used to satisfy and the diversity/ globalization/non-Western area studies overlay	
Writing	ENG 101 Craft of Language - May also be satisfied by earning a 4 or a 5 on the English Literature or Language AP test.	

C. Free Electives (Minimum 7 courses)	Semester completed
1.	
2.	
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D. GEP Integrative Learning Courses for Environmental Science (3 courses)	Semester Completed
1. BIO 102/102L Biology II: Genetics & Evolutionary Biology	
2. CHM 120 & 120L – General Chemistry I and Lab I	
3. Choose one of the following: HIS 386 American Environmental History ECN 375 Environmental Economics POL 327 Environmental Politics in America	

E. Major Requirements	
Course	Semester completed
1. BIO 201 – Biology III Organismic Biology	
2. ENV 106 and 106L – Exploring the Earth	
3. ENV 102 – Environmental Theory and Ethics Seminar	
4. CHM 125 and 125 L – General Chemistry II and General Chemistry Lab II	
5. CHM 210 and 210L – Organic Chemistry I and Organic Chemistry Lab I	
6. MAT 128 – Applied Statistics	
7. PHY 101 and 101L – General Physics I and Lab or PHY 105 and 105L – University Physics I and Lab	
8. ENV 490 – Environmental Science Internship (junior or senior year)	
ENV 390 – no credit Environmental Seminar Series, every semester	
One course from each of the following groups:	
9. Group A: Biological Sciences <ul style="list-style-type: none"> • BIO 401 – Animal Behavior • BIO 405 - Biomechanics • BIO 409 - Ecology • BIO 413 - Plant Physiology • BIO 414 - Plant Systematics • BIO 416 – Plant Microbiology • BIO 419 - Invertebrate Zoology • BIO 422 - Applied and Environmental Microbiology • BIO 423 - Evolution 	
10. Group B: Physical Sciences <ul style="list-style-type: none"> • CHM 420 - Environmental Chemistry • CHM XXX- Biogeochemistry • PHY 102 and 102L - General Physics II and lab OR PHY 106 and 106L - University Physics II and Lab • CHM 215 and 215L - Organic Chemistry II and Lab 	
11. Group C: Environmental Studies <ul style="list-style-type: none"> • ECN 370 – Economic Development • ECN 375 – Environmental Economics • ENG 426 – Nature Writing • HIS 386 – American Environmental History • LEO 212 – Organizational Sustainability • MKT 150 - People, Planet, Profit • PHL 316 - Food and Justice • POL 327 - Environmental Politics in America • SOC 316 – Fair Trade: From Co-op to Cup 	
Four additional upper level environmental science courses (Chosen from the courses in Groups A, B, and C above	
12.	
13.	
14.	
15.	



Environmental Science Major

F. Overlays 3 overlays that may be combined with major courses, GEP variable courses (unless otherwise noted), or free electives.	Semester Completed
1. Writing-Intensive (pre-req: ENG 101)	
2. Ethics-Intensive (pre-req: PHL 154)	
3. Diversity/Globalization/non-Western	

Additional Information – Overlays and Faith & Reason Requirements

As noted above, in addition to the 40 courses outlined, students must complete: (1) one course certified in diversity, globalization, or non-Western studies, (2) one ethics-intensive course, and (3) one writing-intensive course. Below are specific guidelines for each class with regard to overlay requirements and the Faith & Reason signature core course:

Class of 2014:

Of the four GEP requirements, Faith & Reason and the three overlay requirements, students in the class of 2014 need to satisfy two of the four requirements. With respect to these four components of the GEP, this means that students in the class of 2014 are required to complete (1) a Faith and Reason course and one overlay requirement OR (2) two overlay requirements.

Class of 2015:

Of the four GEP requirements, Faith & Reason and the three overlay requirements, students in the class of 2015 are required to complete three of the four. Students in the class of 2015 are required to complete (1) a Faith and Reason course and two overlay requirements OR (2) all three overlay requirements.

Class of 2016:

Students in the Class of 2016 must complete the GEP Faith & Reason course requirement and two of the three overlays.

Class of 2017

Students in the Class of 2017 are required to complete all four GEP requirements, Faith & Reason and the three overlays.

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Environmental Science Major - Typical Course Sequence

FIRST-YEAR	Fall	Spring
	BIO 101/101L Bio I: Cells ENV 101 Environmental Science First-Year Seminar MAT 128 Applied Statistics Non-Native Language I	BIO 102 Bio II: Genetics & Evolutionary Biology (ILC) ENV 102 Environmental Theory and Ethics Seminar Non-Native Language II MAT Beauty (MAT 155 or MAT 161) ENG 101 Craft of Language
SOPHOMORE	Fall	Spring
	CHM 120/120L Gen Chemistry I (ILC) BIO 201/201L Bio III: Organismic Biology ENV Elective English 102 Texts and Contexts PHL 154 Moral Foundations	CHM 125/125L Gen Chemistry II ENV Elective THE 154 Faith, Justice, & the Catholic Tradition Social/Behavioral Science HIS 154 Forging the Modern World
JUNIOR	Fall	Spring
	CHM 210/210L Organic Chemistry I ENV Elective PHL Anthropology HIS 386 American Environmental History (ILC) Elective	ENV Elective Elective or overlay Religious Difference Art/Lit Elective
SENIOR	Fall	Spring
	ENV 490– Environmental Science Internship PHY 101/101L General Physics I ENV Elective Faith and Reason Elective	ENV Elective Elective or overlay ENV Elective Elective Elective or overlay

ENV 390 Seminar. In addition to the courses listed above, the ENV 390 is required every semester. This is a non-credit course.