



TEXAS GULF SUSTAINABILITY MINOR

Summary of Minor

- 6 hours of science (environmental knowledge)
- 6 hours of social, cultural, and political knowledge
- 3 hours of ethics
- 3 hours capstone course (taken last, after the completion of the previous 12 hours, and the completion of the summer internship, which is required to enroll in the capstone course)

GSP Courses

Any courses designated “GSP” are also approved for the TGS Minor. Students should consult their advisor or the GSP Program Director, Dr. Sarah Conrad (sacnrad@pvamu.edu) in selecting appropriate courses.

*Indicates is a core course (a core course cannot be used to satisfy both the core requirement and the requirement of the minor)

**Indicates a prerequisite, please see the most updated course catalog to ensure that the proper prerequisite is met.

6 hours = Science/Environmental Knowledge

Choose any two of the following:

- BIOL 1308: Biology for Non-Science Majors, Part I
- BIOL 1309: Biology for Non-Science Majors, Part II**¹
- BIOL 4403: Practicum in Biology
- CHEM 3351: Introduction to Green and Sustainable Chemistry**²
- PHYC 1315: Physical Science
- PHYC 1317: Physical Science**³
- PHYC 3308: Science of Everyday
- PHYC 3322: Introduction to Atmospheric Science
- PHYC 4402: Astronomy and Geology

¹ Prerequisites: BIOL 1308: Biology for Non-Science Majors, Part I

² Prerequisites: CHEM 1033 or [CHEM 1303](#) and ([CHEM 2303](#) or CHEM 2033).

³ Prerequisites: [PHSC 1315](#)

6 hours = Social, cultural, and political knowledge

Choose any two of the following:

AFRICAN AMERICAN STUDIES

- AFAM 1301: Race, Class and Gender in America*

AGRICULTURE

- AGRI 1330: Land Grant System and Global Food Security*
- AGRI 1301: Nature Resource Conservation Management**⁴
- AGRI 2322: Food Distribution Systems, B-GLOBAL⁵
- AGECE 3321: Agricultural Policy**⁶
- AGECE 4323: Land Resource Economics, AFAM Studies**⁷

CIVIL ENGINEERING

- CVEG 2304: Global Development Issues

GEOGRAPHY

- Geog 1302: Introduction to Human Geography*
- Geog 1303: World Regional Geography
- Geog 2311: Introduction to GIS

CHEMICAL ENGINEERING

- CHEG 2316: Ethical Engineering in a Global Society**⁸
- CHEG 3311 Introduction to Energy System**⁹

HEALTH

- HLTH 1306/PHLT1306: Environmental Health

MECHANICAL ENGINEERING

- MCEG 3312 Renewable Energy and Energy Sustainability**¹⁰

POLITICAL SCIENCE

- POSC 2350: Global issues*
- POSC 4324: Race, Gender, and Policy

⁴ Prerequisites: ([AGRI 1370](#) or AGRO 1703) and (AGRO 2633 or [AGRI 2363](#)).

⁵ Prerequisites: (AGECE 1233 or [AGRI 2317](#)) and (AGECE 2213 or [AGRI 2321](#)).

⁶ AGRI 2321 or AGECE 2213 and AGECE 3322 or AGECE 3223 -these two courses may be taken concurrently

⁷ Prerequisites: ((AGECE 2317 or AGECE 1233) or (ECON 2113 or [ECON 2302](#))) and (MATH 1113 or [MATH 1314](#)).

⁸ Prerequisites: ([CHEG 1101](#) or CHEG 1011) or ([CVEG 1101](#) or CVEG 1011) or ([ELEG 1101](#) or ELEG 1011) or ([MCEG 1101](#) or MCEG 1011).

⁹ Prerequisites: ([MATH 2414](#) or MATH 2024) and ([PHYS 2326](#) or PHYS 2523) and (([CHEM 1403](#) or CHEM 1034) or ([CHEM 1304](#) or CHEM 1043)).

¹⁰ Prerequisites: [CHEG 3311](#) or CHEG 3113.

- POSC 3342 Political Resistance and Social Change

SOCIOLOGY

- SOCG 3303: Social inequality
- SOCG 4304 Collective Behavior and Social Change
- SOCG 4314: Environmental Sociology

SOCIAL WORK

- SOWK 3321: Human and Cultural Diversity Social Work
- SOWK 3311: Social Welfare Policy and Services

3 hours = Ethics, social responsibility, and environmental sustainability

Choose from one of the following:

- PHIL 2306-AFAM: Ethics
- PHIL 3307: Environmental Ethics
- PHIL 3308: Global Justice and Ethics

3 hours = Capstone Project¹¹

Choose from one of the following:

- POSC 4321 Seminar in Political Science: 3 semester hours
- SOCG 4378 Senior Seminar in Sociology: 3 semester hours
- AFAM 4301 Seminar in African American Studies: 3 semester hours

¹¹ Students must first be enrolled in a summer internship approved by the Gulf Scholars Program Director before signing up for the Capstone project.

PVAMU Minor Sequence

College/Department: Arts & Sciences/Division of Social Sciences
Program/Minor: Texas Gulf Sustainability

Degree: N/A
Total Program Hours: 18

Fall Semester			Spring Semester			Summer		
Course Number	Course Name	Hrs	Course Number	Course Name	Hrs	Course Number	Course Name	Hrs
3 hours of Science (Choose from options)	BIOL 1308: Biology I BIOL 1309: Biology II CHEM 3351: Intro Green & Sust Chem PHYC 1315: Physical Science I PHYC 1317: Physical Science II PHYC 3308: Science of Everyday PHYC 3322: Intro to Atmos Science PHYC 4402: Astronomy and Geology	3	3 hours of Science (Choose from options)	BIOL 1308: Biology I, BIOL 1309: Biology II CHEM 3351: Intro Green & Sust Chem PHYC 1315: Physical Science I PHYC 1317: Physical Science II PHYC 3308: Science of Everyday PHYC 3322: Intro to Atmos Science PHYC 4402: Astronomy and Geology	3	3 hours of Science	BIOL 4403: Practicum in Biology (only offered in summers)	
Total =		3	Total =		3	0		

SECOND YEAR Sophomore								
Fall Semester			Spring Semester			Summer Semester		
Course Number	Course Name	Hrs	Course Number	Course Name	Hrs	Course Number	Course Name	Hrs
3 hours of Ethics (Choose from options)	PHIL 2306-AFAM: Ethics PHIL 3307: Environmental Ethics PHIL 3308: Global Justice and Ethics	3	3 hours of Social, Cultural, and Political Knowledge (Choose from options)	AFAM 1301: Race, Class & Gender AGRI 1330: Land Grant & Food Sec AGRI 1301: Nature Conservation Mgmt AGRI 2322: Food Distribution AGEC 3321: Agricultural Policy AGEC 4323: Land Resource Econ CVEG 2304: Global Development Geog 1302: Intro to Human Geography Geog 1303: World Regional Geog 2311: Intro to GIS Ethical Engineering CHEG 2316: Intro to Energy Systems CHEG 3311: Intro to Energy Systems	3			
Total =		3	Total =		3	Total = 0		

THIRD YEAR Junior								
Fall Semester			Spring Semester			Summer Semester		
Course Number	Course Name	Hrs	Course Number	Course Name	Hrs	Course Number	Course Name	Hrs
3 hours of Social, Cultural, and Political Knowledge (Choose from options)	HLTH 1306: Env Health MCEG 3312: Renewable Energy POSC 2350: Global issues POSC 4324: Race, Gender & Policy POSC 3342: Political Resistance SOCG 3303: Social inequality SOCG 4304: Coll Bhvr & Soc. Chge SOCG 4314: Env Sociology SOWK 3321: Cultural Diversity SOWK 3311: Social Welfare Policy	3				Internship	Complete summer internship as part of GSP Curriculum, which is required to complete assignments in capstone course.	
Total =		3	Total =		0	Total =		0

FOURTH YEAR Senior								
Fall Semester			Spring Semester			Summer Semester		
Course Number	Course Name	Hrs	Course Number	Course Name	Hrs	Course Number	Course Name	Hrs
Captone Course (Choose from options)	POSC 4321: Seminar in Political Science SOCG 4378: Senior Seminar in Sociology AFAM 4301: Seminar in African American Studies	3						
Total =		3	Total =		0	Total =		0