

CURRICULUM FOR MASTER OF SCIENCE IN ENVIRONMENTAL SCIENCE

STEPHEN F. AUSTIN STATE UNIVERSITY

Core Courses

ENVR 5325 Environmental Policy and Regulation (3)
ENVR 5170 Graduate Seminar (1)
GISC 5351 Introduction to GIS and Geospatial Analysis (3)
ENVR 5204 Advanced Environmental Health and Safety (2)

9 hours

Select one of the following:

FORS 5317 Biometrics (3)
STAT 5340 Statistical Analysis (3)

3 hours

Select one for thesis option*

Select all three for non-thesis option*

ENVR 5303 Remediation and Reclamation of Disturbed Land (3)
ENVR 5312 Environmental Hydrology (3)
ENVR 5350 Air Quality Assessment (3)

3 hours thesis option

9 hours non-thesis option

Thesis option

ENVR 5190 Thesis (6)

6 semester hours

Non-thesis option

ENVR 5371 Topics in Environmental Science (3)
ENVR 5160 Internship (3) OR any elective (3)

6 semester hours

Select 9 hours of electives for thesis and non-thesis options**

Electives

AGRI 5344 Soil-Plant Relationships
BIOL 5364 Aquatic Vascular Plants
BIOL 5367 Plant Ecology
BIOL 5327 Microbial Ecology
BIOL 5342 Advanced Ichthyology
BIOL 5484 Advanced Limnology
BIOL 5412 Scanning Electron Microscopy
BIOL 5383 Aquatic Ecology
CHEM 5321 Advanced Analytical Chemistry
CHEM 5326 Topics in Analytical Chemistry
CHEM 5372 Advanced Environmental Chemistry
ENVR 5302 Environmental Contaminant Management
ENVR 5303 Remediation and Reclamation of Disturbed Land
ENVR 5307 Water Resource Management
ENVR 5312 Environmental Hydrology
ENVR 5314 Wetland Delineation and Functional Assessment
ENVR 5350 Air Quality Assessment
ENVR 5160 Internship in Environmental Science
ENVR 5371 Special Topics in Environmental Science
ENVR 5175 Advanced Graduate Studies in Environmental Science
FORS 5210 Research Methods in Natural Resources (2)
FORS 5321 Advanced Landscape Ecology
FORS 5323 Plant Water Relations
FORS 5335 Forest Soils

Electives (Continued)

FORS 5345 Forest and Range Ecology Concepts
GISC 5300 GIS Programming
GISC 5305 Remote Sensing Applications
GISC 5352 Intro Digital Remote Sensing
GISC 5353 GIS and Geospatial Analysis
GEOL 5308 Depositional Systems
GEOL 5320 Geochemistry
GEOL 5349 Applied Hydrogeology
GEOL 5350 Cave and Karst Systems
GEOL 5359 Contaminant Hydrology

9 hours

30 total hours for thesis and 36 total hours for non-thesis option

* Requirements may be replaced with approved electives for students with the SFA Bachelor of Science in Environmental Science degree

** Additional electives may be used with approval of major professor and graduate committee

Minimum Prerequisites***

Bachelor's Degree, preferably in a science related area

8 semester hours of Chemistry

6 semester hours of Biology (minimum one lab course required)

3 semester hours college algebra or higher mathematics

***Students without all of the prerequisites may be considered for admission and have the deficiencies removed after arrival by taking applicable courses. Additional leveling courses may be required.

Contact:

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