

Integrative Science-Environmental Science Advising Track

LEVEL 1: Building a Scientific Foundation (16 Credits) Student would choose either a Chemistry or Biology track at the foundation level, depending on which upper-division courses the student plans to take. However, students are welcome and encouraged to take both the Chemistry and Biology introductory Sequences if able.

_____ ENVR 175 Earth Systems Science (4)

_____ ENVR 275 Humans and the Environment (4)

Plus, one of the following sets of coursework:

_____ BIOL 101 Foundations of Biology (4) fall

_____ BIOL 201 Intermediate Cell Biology and Genetics (4) spring

_____ BIOL 202 Evolution in Action (4)

OR

_____ CHEM 125 Introduction to Chemical Structure and Properties (4) and CHEM 201 Purification and Separation Lab I (0-1)

_____ CHEM 250 Reactivity I (4) and CHEM 202 Purification and Chromatography Lab II (0-1)

_____ CHEM 255 Fundamentals of Macroscopic Chemical Analysis (4) and CHEM 205 Chemical Measurement Lab (0-1)

_____ MATH 124 Statistics is also recommended

LEVEL 2: First Integration Point (2 Credits)

_____ ISCI 201 Integrative Science I (2) spring

LEVEL 3a: Building Depth and Breadth: Upper Division Natural Science courses (20 Credits with no more than 12 credits from one academic department) Course prerequisites are bracketed at the right, followed by the semester the course is typically offered. Please note that it is the student's responsibility to make sure all prerequisites are complete prior to enrolling in upper division coursework.

_____ **ENVR 300Q Environmental Health (4) fall

_____ **ENVR 333 Sustainable Agriculture (4) fall

_____ **ENVR 311 Introduction to Geographic Information Systems (4) spring

_____ **ENVR 331 Science of Climate Changes (4) spring

_____ **BIOL 334 General Ecology (4) {BIOL 101, 201, 202 or ENVR 175, 275} fall

_____ **BIOL 337 Aquatic Ecology (4) {BIOL 101, 201, 202 or ENVR 175, 275} fall

_____ BIOL 308 Plant Systematics (4) {BIOL 101, 201 or 202} fall

_____ BIOL 327 Plant Physiology (4) {BIOL 101, 201} spring

_____ BIOL 322 Developmental Biology (4) {BIOL 101, 201} fall

_____ BIOL 323 Animal Physiology (4) {BIOL 101, 201} fall

_____ BIOL 332 Natural History of Terrestrial Vertebrates (4) {BIOL 101, 201, 202} spring

_____ BIOL 336 Behavioral Ecology (4) {BIOL 101, 201, 202 or ENVR 175} typically spring

_____ BIOL/ENVR 341 Natural History of Tropical Carbonates (2) {BIOL 101, 201, and 202 or ENVR 175 and 275} spring

_____ **CHEM 343 Climate and Habitat Change (2) {CHEM 125, CHEM 250, CHEM 255} spring every year

_____ **CHEM 344A Environmental Chemistry: Atmosphere (2) or **CHEM 344B Environmental Chemistry: Lithosphere/Hydrosphere
{CHEM 125, 250, 255, 343} spring *A and B offered alternating years

_____ CHEM 348B Molecular Design--Inorganic (2) {CHEM 125, 251, CHEM 315} fall even years

_____ CHEM 354 Sustainable Energy (2) {CHEM 125, 250, 255} spring even years

_____ CHEM 356 Instrumental Design and Technology (2) {CHEM 125, 255} fall even years

_____ CHEM 357 Separation Science (2) {CHEM 125, 255} fall odd years

_____ CHEM 361 Insights into Mechanistic Determination (2) {CHEM 125, 250, 255, and CHEM 315 as pre- or co-requisite} spring odd years

Note: No more than 12 credits from any one department

****indicates most strongly recommended coursework**

LEVEL 3b: Additional upper Division Courses (8 credits: can be Natural Science coursework and/or courses outside the Natural Sciences)

_____ Any upper division Natural Science Course _____

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_____ Any upper division ENVR Course _____

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_____ COMM 309 Environmental Rhetoric

_____ ECON 318 Natural Resource/Environmental Economics

_____ HIST 360 U.S. Environmental History

_____ PCST 354 Global Environmental Politics

_____ PHIL 322 Environmental Ethics

_____ POLS 330 Environmental Politics/Policy

LEVEL 4: Second Integration Point (2 Credits)

_____ ISCI 301 Integrative Science II (2) fall

LEVEL 5: Integration Science Capstone (4 Credits)

_____ ISCI 378 (4) spring

* No more than 12 credits can be counted toward another major or minor.

	Year 1	Year 2	Year 3	Year 4
Fall				
Spring				

Common Curriculum requirements:

FYS I & FYS II ES EL Theo 111 FA HM & HM (different departments) FAE

GL 111, 112, 211 GE IC TU NS MT SS