

THE ONE FOR SUCCESS, BRYANT UNIVERSITY, THE ONE FOR KNOWLEDGE, THE CHARACTER, THE ONE FOR SUCCESS, BRYANT UNIVERSITY, THE ONE FOR DGE. **BRYANT UNIVERSITY**

ENVIRONMENTAL SCIENCE



WWW.BRYANT.EDU/AREASOFSTUDY

Global warming, renewable energy, alternative and fossil fuels, water quality, and green living are topics of concern to individuals and businesses alike. The Bachelor of Science degree with a major in Environmental Science emphasizes the physical, chemical, and biological sciences, and incorporates course work in social sciences, history, literature, and business administration. The curriculum also provides the flexibility for you to specialize in particular areas of interest such as toxicology, sustainable development, resource and wildlife management, land use and reclamation, green manufacturing, analytical analysis, and others. You can also pursue a broad course of study that will prepare you for a number of career opportunities related to the environmental field.

If you choose to minor in Environmental Science, you will take five courses in the subject and obtain a solid foundation for further professional studies for careers in environmental management in the private or public sector.

ENGAGED LEARNING + APPLIED SCHOLARSHIP

The College of Arts and Sciences and the College of Business at Bryant offer a rigorous academic curriculum, and a depth and breadth of study that encourages students to explore new fields and expand their thinking. In fact, the unique integration of business and liberal arts is a hallmark of a Bryant education – business students study liberal arts and liberal arts students study business. This foundation educates the *whole* student and enhances communication skills; leads to a more comprehensive understanding of global, cultural, and ethical issues; and develops critical thinking and decision-making skills.

Bryant’s comprehensive curriculum allows you to develop your intellectual passions and define a clear path for success.

DISTINGUISHED FACULTY

Bryant’s faculty are accomplished, passionate educators who are dedicated to helping you develop your intellectual potential. They continually enhance their capabilities through research, publishing, consulting, and community service, and bring this knowledge into the classroom. Our full-time tenured and tenure-track faculty come from prestigious academic institutions and have demonstrated a deep commitment to your academic growth. Faculty and staff deliver an extraordinary level of personal guidance that has benefited generations of Bryant students.

FOR MORE INFORMATION

Learn more at www.bryant.edu/areasofstudy, or contact Science and Technology Professor Gaytha Langlois, Ph.D., department chair, at langlois@bryant.edu.

PRACTICAL EXPERIENCE

You will be exposed to important environmental issues facing today’s society by participating in hands-on exercises and experimentation in modern, well-equipped laboratories on campus and at various field sites, including wetlands, coastal habitats, and woodlands. Enrollment for this major is limited to 40 students, who will benefit from dedicated faculty advising, an action-oriented curriculum, and team research. Environmental Science majors will also have the opportunity to spend a semester in China studying at the China University of Geosciences, Wuhan.

“Most other undergraduate programs in environmental science do not offer this depth of research experience combined with a required business minor and an international component. Our students will learn how to apply sustainable practices in every industry.”

Dan McNally, Ph.D., Associate Professor
Department of Science and Technology

PROFESSIONAL SUCCESS

Concern about increasing environmental threats, coupled with global and local demands for stricter governmental environmental policies and regulations, will continue to open doors for people knowledgeable in the area of environmental science. The Bureau of Labor Statistics predicts that the number of jobs for environmental scientists will grow more rapidly than the average through 2018. A sampling of companies that recruit Bryant graduates include:

- Boston Scientific
- CVS
- EMC
- Pfizer
- Raytheon
- United Technologies

DEGREE AND MAJOR REQUIREMENTS

ENVIRONMENTAL SCIENCE

LIBERAL ARTS CORE REQUIREMENTS

Microeconomic Principles (ECO113)

Macroeconomic Principles (ECO114)

Liberal Arts Seminar (LCS151)

Introduction to Literary Studies (LCS121)

Calculus and Analytic Geometry I (MATH121)

Calculus and Analytic Geometry II (MATH122)

Statistics I (MATH201)

Two (2) Humanities Survey Courses

LIBERAL ARTS DISTRIBUTIONS – MODES OF THOUGHT*

Two (2) Social Science Modes of Thought

Historical Mode of Thought (Upper Division)

Literary Mode of Thought (Upper Division)

Cultural Mode of Thought

Two (2) Scientific Modes of Thought (Include one lab science)
(One science course must be taken at the 300 or 400 level)

FOUNDATIONS FOR LEARNING (FFL101)

BUSINESS ADMINISTRATION MINOR REQUIREMENTS

Introduction to Business (BUS101)

Principles of Financial Accounting (ACG203)

Fundamentals of Computer Information Systems (CIS201)

Financial Management (FIN201)

Management Principles and Practice (MGT200)

Foundations of Marketing Management (MKT201)

ELECTIVES – Subject to programmatic constraints, students may elect up to 12 additional credits from the College of Business.

*Modes of Thought requirements can be met by appropriate courses in the major.

ENVIRONMENTAL SCIENCE MAJOR REQUIREMENTS

LEVEL I COURSES

[All required]

General Biology and Lab (SCI251 & SCIL251)

General Chemistry and Lab (SCI265 & SCIL265)

Physical Geology (SCI262)

Physics (SCI264)

Ecology (SCI351)

[One (1) of the following labs]

Physical Geology Lab (SCIL262)

Physics Lab (SCIL264)

Ecology Lab (SCIL351)

LEVEL II COURSES

[Choose three (3) courses that include one (1) lecture/lab course and one (1) 400 level course]

Diversity and Evolution of Plants (SCI361)

Organic Chemistry (SCI365)

Coastal Environments (SCI366)

Environmental Study in China (SCI375)

Energy Management Strategies and Lab (SCI355 & SCIL355)

Human Impact on Land and Life and Lab (SCI371 & SCIL371)

Sustaining Air and Water and Lab (SCI372 & SCIL372)

GIS for Environmental Decision Making and Lab (SCI376 & SCIL376)

Microbiology and Lab (SCI377 & SCIL377)

Special Topics: Plant Biology (SCI385)

Environmental Toxicology and Risk Assessment (SCI457)

Global Change and Geochemical Impact (SCI458)

Systems Modeling (SCI460)

Special Topics:

Green Technology for Sustainability (SCI485)

Special Topics: Issues in Environmental Science (SCI485)

RESEARCH

[Choose one (1) 300-level and one (1) 400-level course]

Research Methods Directed Study in Science (SCI390)

On-Site Environmental Study in China (SCI475)

Research Directed Study in Science (SCI490)

CAPSTONE COURSE

Environmental Policy:

Decision Making and Problem Solving (SCI455)

**ENVIRONMENTAL SCIENCE MAJORS WILL COMPLETE
122 CREDIT HOURS FOR GRADUATION**