

Professional Science Master's Program



Applied Chemical Sciences

The Applied Chemical Sciences degree prepares students with background in chemistry for employment in chemical industries or government organizations. With three different concentrations students will be able to pursue advanced course work in the area that matches their interests.

Students will not only be strengthening their technical knowledge and scientific skills, such as analysis, research, characterization, data collection, and problem solving, but will also work on the development of written, analytical, and verbal communication skills, business management skills and policy writing. This interdisciplinary curriculum provides graduates with the tool-set to be successful in the science/technology industry.

Focus areas are offered in:

- Bioorganic Chemistry
- Computational Chemistry and Data Science
- Petroleum Chemistry



Bioscience and Health Policy

The Bioscience and Health Policy track deepens students' science background and complements it with courses in business, economics, analytics and policy studies to foster the understanding of the role of science in policymaking and the role of public policy in science. The program provides students with the tools to face the complex challenges inherent in U.S. bioscience research, public health, healthcare systems and health-related industry.

Focus areas are offered in:

- Biomedical science
- Health policy
- Healthcare management



Environmental Analysis

The Environmental Analysis program is an interdisciplinary program geared to teach students quantitative methods in addition to principles of environmental engineering and ecosystem management needed by industrial and governmental organizations to deal with environmental issues. It is a cross-disciplinary effort combining courses from environmental science, earth science, statistics, chemistry, ecology and evolutionary biology, environmental engineering with business, management and communication.

Focus areas are offered in:

- Environmental sustainability
- Management and policy
- Quantitative decision-making



Space Studies

The Space Studies program combines advanced aerospace engineering, biological and physical science classes with analytics, computation, public policy and management discipline to better understand factors impacting space commercialization and national space policy. This program focuses on enriching the training of scientists and engineers with skills in business, management and entrepreneurship, providing them with the tools to face the complex challenges inherent in U.S. space policy, human and robotic space exploration, and the role of science in space exploration and technology development.

Focus areas in:

- Engineering
- Astro science, earth science, life sciences
- Human factors
- Management and entrepreneurship



Energy Geoscience

The Energy Geoscience program is geared for students who would like to become proficient in applying geological knowledge, geophysical methods, energy data management and analytics to help solve challenges faced by the energy industry.

The core technical requirements for the degree are strong courses in geophysics, geology, seismic data interpretation, data management and analytics. In addition, a special emphasis is placed on development of professional skills in high demand by industry, such as business, management, policy and effective communication. The program requires a practical work experience allowing students to apply their acquired skill set in a real life environment.

Focus areas in:

- Data management
- Energy transition
- Geology
- Geophysics

Program Overview

- 16-month non-thesis, user's degree program
- Business, management and communication training
- Required three- to six-month internship
- Internship project presentation and reports to be presented to a mixed audience
- 4+1 option available for Rice undergraduates

Other options PSM/MBA Coordinated Degree Program

This program offers a deeper immersion into management and business in a unique collaboration between the School of Natural Science and Rice's Jones School of Business.

Deadlines

Fall semester deadline: Feb. 15
Spring semester deadline: Aug. 1

For more information about the program and its unique curriculum, please visit:

www.profms.rice.edu



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Wiess School of Natural Sciences

