

# Mission, Goals and Student Learning Outcomes: AY 2018-2019

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Please upload the form for each program in Blackboard by **September 25, 2018**.

<b>School</b>	School of Arts and Sciences
<b>Department</b>	Earth and Physical Sciences
<b>Program</b>	Geology
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<b>Date Submitted</b>	November 26, 2018

## I. State Program Mission

The Department of Earth and Physical Sciences houses programs in Astronomy (minor), Environmental Health Science, Environmental Science (minor), Earth Science Education, Geology and Physics. Our mission is to help develop a scientifically literate and proficient student body, and to encourage the greater York community to be informed and engaged in areas of national and global importance such as: the success of the country's technological industries, responsibly supporting our society's energy needs, and maintaining the environmental well-being of our planet for posterity.

**II. List Program Goals (PGs) and Program Level Student Learning Outcomes (PSLOs)**

<b>Program Goal</b>	<b>Program Student Learning Outcomes</b>
Goal.1 Demonstrate an overall comprehension of geological principles, facts, and concepts.	Outcome 1.1 Identify and describe minerals, rocks, and fossils.
	Outcome 1.2 Apply observation skills to suggest their origin as part of interpreting earth history.
Goal.2 Demonstrate proficiency in routinely-used geoscience laboratory and field techniques.	Outcome 2.1 Make systematic observations of field and laboratory data.
	Outcome 2.2 Make clear and substantive observation of field data (rock samples, outcrop, structure, etc.) and ably connect with established scientific principles.
	Outcome 2.3 Analyze and manipulate data using basic statistics.
	Outcome 2.4 Prepare professional style geological report.
Goal.3 Assess geosciences content knowledge as applied to their own continuing education and professional development.	Outcome 3.1 Accomplish an independent research project in collaboration with a member of the geoscience faculty.
	Outcome 3.2 Disseminate the outcome of that research to a professional audience.
	Outcome 3.3 Demonstrate a capacity for self-evaluation of personal skills and needs.
Goal.4 Disseminate geoscience-related information to the community (non-scientific audiences) and generate scientific awareness.	Outcome 4.1 Share relevant information related to the Earth, such as global climate change, ozone depletion, water pollution, and other environmental issues to the community as part of civic engagement.

<p>Goal.5 Successfully integrate geoscience content knowledge and skills with respect to the societal context in which these knowledge and skills will be applied.</p>	<p>Outcome 5.1 Highlight essential components of societal issues relative to the geosciences.</p>
	<p>Outcome 5.2 Create or design science-based solutions to societal problems relative to the geosciences.</p>