



PROVIDENCE

PROGRAM OUTCOMES FOR BACHELOR OF SCIENCE (BSc)

The Providence science program is Christ-centered, interdisciplinary, and sustainable. It is committed to pedagogical innovation, creation care, truth and reconciliation, community connections, and campus initiatives. This program includes a 3-year BSc General Biology, 4-year BSc Health Science, and 4-year BSc Environmental Science. Students develop an in-depth understanding of various scientific disciplines and scientific methods. They think creatively as they complete diverse course assignments, and think critically as they discuss the past, present, and future of science.

Program Goals	Measurement Means	Cycle	Next Collection Date	Persons Responsible
UNDERSTANDING & APPLICATION Recognize and identify the vast biodiversity on our planet. Describe the complexities of fields such as biology, chemistry, earth and environmental science, and health science. Apply scientific knowledge to global issues and everyday decisions related to life, health, and the environment. Supports Goal 2 and 6	DIRECT: 80% of students earn 80% or higher in a capstone "Topics" course. INDIRECT: course evaluations, participation in science club, attendance at public scholarship events.	DIRECT: End of academic year INDIRECT: End of each semester	DIRECT: May 15 2024 INDIRECT: Jan. 15 2024 & May 15 2024	DIRECT: Professor of that Topics course. INDIRECT: Academic Assistant, Science Club Faculty



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Program Goals	Measurement Means	Cycle	Next Collection Date	Persons Responsible
METHODS & SKILLS Perform a range of experimental techniques and demonstrate safe laboratory and field practices. Supports Goals 5 and 6	DIRECT: Completion of lab safety course, and 80% of students earn 80% or more in a "Methods" course.	DIRECT: End of academic year	DIRECT: May 15 2024	DIRECT: Professor of that Methods course.
	INDIRECT: 100% accuracy and completion rates of incident reports.	INDIRECT: End of academic year	INDIRECT: May 15 2024	INDIRECT: Lab safety officer
COMMUNICATION Summarize, analyze, critique, write, and present scientific research. Demonstrate the ability to effectively communicate with fellow scientists and the general public. Supports Goal 4	DIRECT: 80% of students earn 80% or higher in any paper, project, or presentation in a 2nd year science course (any 235.2X or 236.2X or 232.2X course).	DIRECT: End of academic year	DIRECT: May 15 2024	DIRECT: Science program coordinator
	INDIRECT: contributions to Providence public media (website, social media, app).	INDIRECT: End of academic year	INDIRECT: May 15 2024	INDIRECT: Media manager



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CAREER READY Prepare for a career in science or further studies. Supports Goal 5 and 6	DIRECT: 90% of science students committed to graduate, do so. INDIRECT: alumni survey.	DIRECT: End of academic year INDIRECT: End of academic year	DIRECT: May 15 2024 INDIRECT: May 15 2024	DIRECT: Registrar's office & science coordinator INDIRECT: Alumni coordinator
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