2013/2014 Dalhousie academic programs with sustainability learning outcomes

Data collection method:

Sustainability learning outcomes as defined by STARS were identified at the course level. There were no publicly available learning outcomes for the academic courses, as such, the 2013/2014 sustainability courses inventory was used to identify degree programs. Degree programs that offers courses identified to be sustainability courses or courses that include sustainability were assumed by proxy to have sustainability learning outcomes. Therefore, graduates from such degree programs were assumed to graduate with sustainability learning outcomes. The 2013/2014 academic calendar and timetable were used to identify sustainability courses and courses that include sustainability.

All graduates were counted where degree programs had at least one mandatory sustainability course or course that include sustainability. For degree programs that offered elective courses that were identified to be sustainability course or course that includes sustainability, the following approach was used to count number of graduates:

Number of electives (sustainability course or course that includes sustainability)	Percentage of graduates with sustainability learning outcomes
1	20
2	30
3	40
4	60
5	80
6	100

Presented below are the degree program with sustainability learning outcomes, divided into degree programs with mandatory sustainability courses and degree programs with elective sustainability courses.

Faculty	Degree level	Degree program (mandatory courses with sustainability learning outcomes)	Degree program (electives courses with sustainability learning outcomes)
Agriculture	Undergraduate	Agricultural Business	
		Agricultural Economics	
		International Food Business	

		Integrated Environmental Management	
		Environmental Sciences	
		Environmental Landscape Horticulture	
		Technology Managed Landscapes	
		Master Gardener Training	
		Animal Science	
		Aquaculture	
		Plant Science	
		Diploma in Technology Plant Science	
	Graduate	Agriculture	
Architecture and planning	Undergraduate	Architecture	
		Environmental design studies	
		Community design	
	Graduate	Architecture	
		Civil engineering and planning	
		Planning	
Arts and social sciences	Undergraduate		Canadian Studies
			Contemporary Studies
			Early Modern Studies
			History of Science and Technology
			International Development Studies
			Philosophy
			Political Science
			Sociology and Social Anthropology
	Graduate		International Development Studies
			Political Science
			Sociology and Social Anthropology

Engineering	Undergraduate	Civil Engineering	
			Food Science Minor
		Industrial Engineering	
		Materials Engineering	
			Mechanical Engineering-
		Mineral resource engineering	
			Engineering mathematics and internetworking
		Chemical engineering	
	Graduate	Biological Engineering	
		Civil and Resource Engineering	
			Engineering mathematics and internetworking
		Engineering	
		Environmental Engineering	
			Food Science and Technology
			Mechanical Engineering
Health profession	Undergraduate		Health Promotion-elective
	Graduate		Health promotion- elective
Law		Marine and environmental law programme	
Management	Undergraduate	Management	
	Graduate	Marine affairs	
		Resource and environmental studies	
Medicine			Community health and epidemiology
Science	Undergraduate	Biology	
		Earth sciences	
		Environmental science	
		Marine biology	
	Graduate		

		Oceanography	
			Physics and atmospheric science

Note:

1. Sustainability learning outcomes were identified at the course level and programs with courses that have such learning outcomes are identified above.

2. Academic programs with sustainability outcomes such as Environment, society and sustainability are not included in this list as they are already part of other programs either offered as a major or a minor. This also applies to some degree programs with sustainability outcomes that are offered as a major or minor in other programs, they are not included in the list but the overarching program is included.