Sustainability Learning Outcomes: Academic course calendars for the 2019/2020 academic year were used to identify the required courses in each program's curriculum across the institution. Required courses for each degree program that are included in the sustainable academic course inventory have been counted as a learning outcome. Departmental websites were also employed to locate departmental mission statements or goals that have incorporated sustainability-centric operational mandates generalized sustainability learning outcomes for their student body.

Faculty	Degree	Level	Departmental Sustainability Statement	Sustainability Learning Outcome	Graduates Counted	Rationale
Agriculture	Agricultural Business	UG		Yes	**2**	Required courses: AGRI 1000.03: Agricultural Ecosystems MGTA 4006.03: Issues in Agribusiness Sustainability
	Agricultural Economics	UG		Yes	**8**	Required courses: AGRI 1000.03: Agricultural Ecosystems ECOA 3008.03: Environmental Economics
	Animal Science	UG		Yes	**17**	Required course: AGRI 1000.03: Agricultural Ecosystems
	Animal Welfare (Certificate)	UG		Yes	**10**	Required course: PHLA 3001.03: Animal Ethics
	Aquaculture	UG		Yes	**12**	Required course: AGRI 1000.03: Agricultural Ecosystems
	Bioveterinary Science	UG		No		
	Business Management - Agriculture (Diploma)	UG		Yes	6	Required course: APSC 0200 Environmental Management
	Business Management - Dairy Farming (Diploma)			Yes	3	Required course: APSC 0200 Environmental Management
	Business Management - Equine Studies (Diploma)			Yes	4	Required course: APSC 0200 Environmental Management

Agriculture and Engineering	Engineering (Diploma)	UG		No		
Agriculture	Environmental Sciences	UG		Yes	8	Required course: AGRI 1000.03: Agricultural Ecosystems BIOA 3001.03: Ecology
	Integrated Environmental Management	UG		Yes	7	Required course: AGRI 1000.03: Agricultural Ecosystems APSC 1003.03: Practices & Mechanics of Materials
	Integrated Pest Management (Certificate)	UG		Yes	1	Required course: BIOA 3002: Weed Science
	International Food Business	UG		No		
	Landscape Architecture	UG		Yes	25	Required course: HORT 3000.03: Environmental Processes and Natural Landscape Functions HORT 4000: Urban Tree Management ENVA 3021: Ecohydrology ENVA 2000.03: Environmental Studies I ENVA 2001.03: Environmental Studies II
	Managed Landscapes (Diploma)	UG		Yes	3	Required course: HORT 2008 Residential Landscape Design and Construction HORT 2012.03: Landscape Maintenance
	Organic Agriculture (Certificate)	UG		Yes	9	Required course: AGRI 2000: Transition to Organic Agriculture
	Plant Science	UG		Yes	21	Required course: PLSC 0100.02: Utilization of Plant Resources BIOA 0103.02: Weed Science
	Small Business Management	UG		No		
	Technology Education (Certificate)	UG		Yes	14	Required course: APSC 1003: Practices and Mechanics of Materials
	Veterinary Technology (Diploma)	UG		No		

Architecture & Planning	Agriculture	UG		No		
	Community Design	UG		Yes	17	Required courses: PLAN 1001.03: Introduction to Community Design 1 PLAN 2001.03: Landscape Analysis
	Environmental Planning	UG		Yes	3	Required courses: PLAN 1001.03: Introduction to Community Design 1 PLAN 2001.03: Landscape Analysis
	Urban Design and Planning	UG		Yes	15	Required courses: PLAN 1001.03: Introduction to Community Design 1 PLAN 2001.03: Landscape Analysis
	Art History & Visual Culture (Certificate)	UG		No		
	Cinema & Media Studies	UG		No		
	Classics	UG		No		
	Contemporary Studies	UG		No		
	English	UG		No		
	European Studies	UG		No		
	French	UG		No		
	Gender & Women's Studies	UG		No		
	German	UG		No		
	History	UG		No		
	History of Science and Technology	UG		No		

Arts & Social Sciences	Indigenous Studies (Certificate)	UG		Yes	11	Learning Outcomes: - Students will become familiar with Indigenous perspectives on historical and contemporary political, social, and economic issues. - Students will learn about the history of the Indian Residential School system and the implications of the Truth and Reconciliation Commission of Canada's Calls to Action. - Students will become familiar with (and be given the opportunity to deepen through an elective option) Indigenous models of research. - Students will attain basic competencies around the protocols of working with Indigenous groups or in Indigenous communities. Required courses: INDG 2050.03: Historical Issues in Indigenous Studies INDG 2052.03: Contemporary Issues in Indigenous Studies
	Intercultural Communication (Certificate)	UG		No		
	International Development Studies	UG		Yes	62	Required courses: INTD 2001.03 Introduction to Development I INTD 2002.03: Introduction to Development II
	Law, Justice & Society	UG		No		
	Linguistics	UG		No		
	Music	UG		No		
	Philosophy	UG		No		
	Political Science	UG		No		
	Religious Studies	UG		No		
	Social Anthropology	UG		No		
	Sociology	UG		No		
	Sociology & Social Anthropology	UG		No		
	Spanish and Latin American Studies	UG		No		
	Theatre	UG		No		
	Applied Computer Science	UG		No		
	Artificial Intelligence and Intelligent Systems (Certificate)	UG		No		

Computer Science	Communication Technologies and Cyber Security (Certificate)	UG		No		
	Computer Science	UG		No		
	Data Science (Certificate)	UG		No		
	Graphics, Gaming & Media (Certificate)	UG		No		
	Informatics	UG		No		
	User Experience Design & Evaluation (Certificate)	UG		No		
Dentistry	Dental Hygiene	UG		No		
	Dentistry	UG		No		
Engineering	Chemical Engineering			Yes	63	Required course: CHEE 3560.03: Green Engineering
	Civil Engineering			Yes	84	Required course for Infrastructure Option - CIVL 3451.03: Water Quality & Treatment Required courses for Earth & Environment Option - CIVL 3451.03: Water Quality & Treatment CIVL 4440.03: Water & Wastewater Treatment ENVE 4772.03: Environmental Assessment & Management CPST 3030.03: Engineering in Society II
	Electrical Engineering			Yes	78	Required course for Electrical Engineering Option - CPST 3030.03: Engineering in Society II Required course for Computer Engineering Option - CPST 3030.03: Engineering in Society II
	Environmental Engineering	UG		Yes	38	Required courses: CIVL 3451.03 Water Quality & Treatment ENVE 3461.03: Environmental Measurements and Analysis CIVL 4460.03: Solid Waste and Landfill Engineering ENVE 3500.03: Air Quality LAWS 2800:03 Intro to Environmental Law CIVL 4440.03: Water & Wastewater Treatment ENVE 4772.03: Environmental Assessment & Management
	Industrial Engineering	UG		No		
	Materials Engineering	UG		No		
	Mechanical Engineering	UG		Yes	89	Required courses: CPST 3030.03: Engineering in Society II

	Mineral Resource Engineering	UG		Yes	32	Required course: MINE 4815.03: Mining and the Env.
Health	Acute and Critical Care (Certificate)	UG		No		
	Cardiac Ultrasound (Certificate)	UG		No		
	Diagnostic Medical Ultrasound Technology	UG		Yes	12	HSCE 3000.03: Culture, Diversity and Health
	Disability Management (Certificate)	UG		No		
	Emergency Health Services Management (Diploma)	UG		No		
	Health Promotion	UG		No		
	Health Services Administration (Diploma)	UG		No		
	Kinesiology	UG		Yes	87	Required course: KINE 3200 Sociocultural Issues in Physical Activity
	Magnetic Resonance Imaging (Certificate)	UG		No		
	Medical Lab Technology	UG		No		
	Mental Health (Certificate)	UG		No		
	Nuclear Medicine Technology	UG		Yes	7	Required course: HSCE 3000.03: Culture, Diversity and Health
	Nursing	UG		Yes	291	Required course: NURS 2720.03: Health and Healing I: Pathophysiology and Therapeutics

	Pharmacy	UG		No		
	Public Health (Certificate)	UG		No		
	Radiological Technology	UG		Yes	7	Required course: HSCE 3000.03: Culture, Diversity and Health
	Recreation	UG		No		
	Respiratory Therapy	UG		Yes	3	Required course: HSCE 3000 Culture, Diversity and Health
	Social Work	UG		Yes	121	Required course: SLWK 2222.03: Advancing Social Justice
Law	Business Law (Certificate)	UG		No		
	Environmental Law (Certificate)	UG		Yes	4	Required course: LAWS 2104 Environmental Law I
	Health Law and Policy (Certificate)	UG		No		
	Law	UG		No		
	Marine Law (Certificate)	UG		Yes	2	Required course: LAWS 2104 Environmental Law I
Management	Accounting (Commerce)	UG		Yes	66	Required course: COMM 2310.03: Business Ethics and Corporate Social Responsibility (CSR)
	Commerce	UG		Yes	33	Required course: COMM 2310.03: Business Ethics and Corporate Social Responsibility (CSR)
	Entrepreneurship (Commerce)	UG		No		
	Entrepreneurship and Innovation	UG		No		
	Finance (Commerce)	UG		No		
	International Business (Commerce)	UG		Yes	19	Required course: COMM 4315.03: International and Intercultural Management
	Knowledge Management (Management)	UG		No		
	Leadership and Organization (Management)	UG		No		
	Management	UG		Yes	92	Required course: MGMT 2305 Ethics and Social Responsibility

	Management & Globalization (Management)	UG		No		
	Managing People and Organizations (Management)	UG		Yes	20	Required course: COMM 4315.03: International and Intercultural Management
	Marketing Management (Commerce)	UG		No		
	Supply Chain and Logistics Management (Commerce)	UG		No		
Medicine	Medicine	UG		No		
Science	Actuarial and Financial Mathematics	UG		No		
	Actuarial Science	UG		No		
	Animal Behaviour (Certificate)	UG		No		
	Aquaculture and the Environment	UG		Yes	11	Required course: MARI 4600 Ecosystem Modelling for Aquaculture
	Biochemistry & Molecular Biology	UG		No		
	Biology	UG		Yes	110	Required course: BIOL 2060.03: Introductory Ecology
	Chemistry	UG		No		
	Data Analytics (Certificate)	UG		No		
	Earth Sciences	UG		Yes	15	Required courses for BSc: ENVS 1100.03: Foundations of Environmental Science: Ecosphere, Resources and Sustainability ENVS 1200.03: Current Environmental Challenges: Analysis and Solutions Required courses for BA: ENVS 1100.03: Foundations of Environmental Science: Ecosphere, Resources and Sustainability ENVS 1200.03: Current Environmental Challenges: Analysis and Solutions ENVS 2000.03: Urban Field School or ENVS 2500.03 Field Methods in Environmental Science ENVS 3200.03: Introduction to Environmental Law ENVS 3501.03: Environmental Problem Solving I ENVS 3502.03: Environmental Problem Solving II* ENVS 4001.03: Environmental Impact Assessment
	Economics	UG		Yes	81	Required course: ECON 1101 Principles of Microeconomics
	Environmental Impact Assessment (Certificate)	UG		Yes	13	Required course: BIOL 4001 Environmental Impact Assessment

Science & Arts and Social Science	Environmental Science	UG		Yes	20	Required course: ENVS 2000 Urban Field School
Science	Genetics (Certificate)	UG		No		
	Geographic Information Science (Certificate)	UG		Yes	10	Required course: ENVS 3500 Geoscience Information Management
	Information Technology (Certificate)	UG		No		
Science & Arts and Social Science	Marine Biology	UG		Yes	67	Required courses: BIOL 2060.03: Introductory Ecology
Science	Mathematics	UG		No		
	Medical Sciences	UG		Yes	60	Required course: SOSA 2503 Health and Society
	Meteorology (Diploma)	UG		Yes	7	Required course: PHYC 4595.03: Atmospheric Chemistry (cross-listed OCEA 4595: Atmospheric Chemistry)
	Microbiology and Immunology	UG		No		
	Neuroscience	UG		No		
	Neurotechnology & Innovation (Certificate)	UG		No		
	Ocean Sciences	UG		Yes	6	Required course: OCEA 2002.03: The Blue Planet OCEA 4000.03: Oceans and Global Change
	Physics and Atmospheric Science	UG		No		
	Psychology	UG		No		
	Science Leadership & Communication (Certificate)	UG		No		
	Statistics	UG		No		

N/A	Environment, Sustainability & Society	UG		Yes	17	Our Mission In this century an understanding of sustainability will be critical for every person in a leadership role in every sector of society. The College of Sustainability offers the opportunity for every Dalhousie student and professor to engage meaningfully with issues of Environment, Sustainability and Society. The College of Sustainability provides an interdisciplinary, student-focused forum for collaborative teaching and learning driven by the pressing concerns of our time. The curriculum incorporates team teaching, problem-based and experiential learning, hands-on internship opportunities, and a public lecture series. Four interlocking conceptual pillars structure the College: an interdisciplinary undergraduate programme; a suite of graduate offerings (forthcoming); a common place for interdisciplinary sustainability scholarship; and community engagement. Required courses: SUST 1000.06: What is Sustainability? SUST 1400.03 Exploring Sustainability SUST 1001.06: A Sustainable Future SUST 2000.06: Local Governance, Citizen Engagement and Sustainability SUST 2001.06: Global Environmental Governance SUST 3000.03: Environmental Decision Making SUST 3701.03: The Community as a Living Laboratory / SUST 3502.03: The Campus as a Living Laboratory
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Degree	Level	Depart.Sustainability Statement	Sustainability Learning Outcome	Graduates Counted	Rationale
Agriculture	G		No		
Architecture	G		No		
Biochemistry & Molecular Biology	G		No		
Biology	G		No		
Business (Master of Science)	G		No		
Biological Engineering	G		Yes	3	Biological Engineering applies natural science and engineering principles to the biological world. As such, Biological Engineering addresses a wide range of problems relating to the environment, food and other biomaterial production and processing, renewable energy and reusable resources. Emphasis is placed on optimizing design performance in dealing with biological materials and systems while preserving sustainability and protection of the environment. The Biological Engineering program has focused research in Environmental Engineering and Biosystems Engineering. Research projects therefore encompass both specific environmental concerns and the sustainable utilization of natural resources.
Biomedical Engineering	G		No		
Business Administration (MBA - Corporate Residency)	G		Yes	43	Required course: BUSI 6900.03: Corporate Responsibility, Ethics and Society MGMT 5000.03: Management Without Borders
Business Administration (MBA - Financial Services)	G		Yes	36	Required course: BUSI 6900.03: Corporate Social Responsibility, Ethics and Sustainability
Business Administration (MBA - Leadership)	G		Yes	1	Required courses: BUSI 6900.03: Corporate Social Responsibility, Ethics and Sustainability BUSI 6996.03: Sustainable Leadership BUSI 6997.03: Leading with Responsibility

Chemical Engineering	G		Yes	7	Learning outcome: With a focus on being environmentally-conscious, students will contribute to sustainable engineering development – a priority for the process and allied industries.
Chemistry	G		No		
Civil and Resource Engineering	G		No		
Civil Engineering and Planning	G		No		
Classics	G		No		
Clinical Vision Science	G		No		
Communication Sciences and Disorders	G		No		
Community Health & Epidemiology	G		Yes	11	Required course: CH&E 5000 Community Health Principles
Computational Biology and Bioinformatics	G		No		
Computer Science	G		No		
Computer Science (Applied)	G		No		
Digital Innovation	G		No		
Earth and Environmental Sciences	G		No		
Economics	G		No		
Electrical and Computer Engineering	G		No		
Electronic Commerce	G		No		
Engineering	G		No		
Engineering Mathematics	G		No		
English	G		No		

Environmental Engineering	G		Yes	2	Learning outcome: Graduate education in Environmental Engineering develops a strong foundation in science and engineering principles which are applied to the solution of important problems related to sustainable utilization of natural resources and protection of the environment. Areas of study include energy and the environment, soil and water quality management, waste
Environmental Studies	G		Yes	10	At the core of the School are interdisciplinary teaching and research programs emphasizing rigorous inquiry and ethical practice as the foundation of responsible environmental and resource management. Efforts are devoted to addressing causes rather than symptoms and learning to anticipate and adapt to change. Learning outcomes: · Demonstrate broadened perspectives on natural resource and environmental issues.
Food Science and Technology	G		No		
French	G		No		
German	G		No		
Health	G		No		
Health Administration	G		No		
Health Informatics	G		No		
Health Promotion	G		No		
History	G		No		
Industrial Engineering	G		No		
Information (formerly MLIS)	G		Yes	4	Required course: MGMT 5000.03 Management Without Borders
Information Management	G		No		
Interdisciplinary PhD	G		No		
International Development Studies	G		Yes	9	Learning outcome: The MA in IDS program offers students an opportunity to complete an interdisciplinary, research degree investigating questions of poverty, social inequity and environmental degradation.
Internetworking	G		No		
Journalism	G		No		

Kinesiology	G		No		
Law	G		No		
Leisure Studies	G		No		
Marine Management	G		Yes	20	Required courses: MARA 5010.03 Contemporary Issues in Ocean Management and Development Part 1 MARA 5009.03 Coastal Zone Management MARA 5011.03 Contemporary Issues in Ocean Management and Development Part 2
Materials Engineering	G		No		
Mathematics	G		No		
Mechanical Engineering	G		No		
Medical Neuroscience	G		No		
Medical Physics	G		No		
Medical Research	G		No		
Microbiology & Immunology	G		No		
Mineral Resource Engineering	G		No		
Musicology	G		No		
Nursing	G		No		
Occupational Science	G		No		
Occupational Therapy	G		No		
Oceanography	G		No		
Oral and Maxillofacial Surgery	G		No		
Pathology	G		No		
Periodontics	G		No		
Pharmaceutical Science	G		No		
Pharmacology	G		No		
Philosophy	G		No		
Physics and Atmospheric Science	G		No		
Physiology & Biophysics	G		No		

Physiotherapy	G		No		
Planning	G		Yes	9	Required course: PLAN 5500 Planning Studio 2
Political Science	G		No		
Prosthodontics	G		No		
Psychiatry	G		No		
Psychology & Neuroscience	G		No		
Public Administration	G		Yes	24	Required course: MGMT 5000 Management Without Borders
Resource & Environmental Management	G		Yes	26	Learning outcomes: - designed to provide you with the skills and knowledge you need to pursue a career in natural resource and environmental management. Required courses: ENVI 5504.03: Management of Resources and the Environment ENVI 5507.03: Environmental Informatics ENVI 5505.03: Biophysical Dimensions of Resource and Environmental Management ENVI 5500.03: Sociopolitical Dimensions of Resource and Environmental Management ENVI 5205.03: Law and Policy for Resource and Environmental Management
Social Anthropology	G		No		
Social Work	G		Yes	97	Required courses: SLWK 6001 Theory and Practice of Anti-Oppressive Social Work in Diverse Communities SLWK 7400 Integrated Approaches for Social Work Practice
Sociology	G		No		
Statistics	G		No		
				302	