

York University SDG Course Inventory

SDG 15 – Life on Land



SDG 15 – Life on Land targets an end to the global degradation of the biodiversity on planet earth. Specific goals include the conservation of terrestrial and inland freshwater ecosystems and their services, in particular forests, wetlands, mountains and drylands, in line with obligations under international agreements. Additionally, innovative science and technology must reclaim and restore polluted and degraded land, as well as protect endangered flora and fauna.

York offers SDG 15-relevant courses and programs through the [Faculty of Environmental and Urban Change](#), and the [Faculty of Science](#). Specific courses include those relevant to biodiversity conservation, biology, and ecosystem management.

[Click Here](#) to learn more about York's initiatives towards accomplishing SDG 15
[Click Here](#) to learn more about the United Nations' SDG 15 targets and goals

SDG 15 Courses at YU	Primary SDG	Secondary SDG	Ancillary SDG	Total Courses
	7	0	1	8

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York University 2022 SDG Course Mapping - SDG 15

COURSE TITLE	FACULTY	SUBJECT	CODE	CREDIT	DESCRIPTION	LANGUAGE	PRIMARY SDG	SECONDARY SDG	ANCILLIARY SDG
Fundamentals of Conservation Biology	Glendon College	BIOL	2310	3	This course explores species preservation methods, the causes of their decline and the effects of human intervention. Concepts and theories underlying conservation biology are used to develop critical thinking in matters related to biodiversity and the protection of endangered species. Prerequisites: SC/BIOL 1000 3.00 and SC/BIOL 1001 3.00 (or SC/BIOL 1010 6.00) or permission of the Department. Previously offered as: GL/NATS 2310 3.00.	en	SDG 15 Life on Land		
Primate Behavioural Ecology & Conservation	Glendon College	BIOL	4205	3	This course examines the behaviour, ecology, evolution, and conservation of non-human primates. The course discusses key theories relating to social organization, dietary strategies, sociality, sexuality, and cognition, as well as conservation issues such as bushmeat trade, habitat destruction, and disease. Prerequisite: GL/BIOL 3001 3.00.	en	SDG 15 Life on Land		
Plant Ecology	Faculty of Science	BIOL	3290	4	This course reflects the diversity of topics that make up the field of plant ecology: ecosystems, plant population ecology, physiological and evolutionary ecology, plant-herbivore interactions and applied ecology. Laboratories cover field and laboratory techniques, including sampling methods and statistical analysis. Experiments extend and build on laboratory and field skills introduced in lower year Biology courses. Students gain experience in running experiments and collecting data over several weeks. This allows for more advanced data analysis that is excellent background for fourth year ecology, conservation biology and evolution focused courses. Prerequisites: Any two of SC/BIOL 2010 4.00, SC/BIOL 2050 3.00, SC/BIOL 2060 3.00, and SC/BIOL 2080 3.00.	en	SDG 15 Life on Land		
Conservation Biology	Faculty of Science	BIOL	4245	3	Explores the role of biological science in efforts to conserve natural resources, systems and the organisms therein. Prerequisites: SC/BIOL 2050 4.00, SC/BIOL 2060 3.00.	en	SDG 15 Life on Land		
Biology II - Evolution, Ecology, Biodiversity and Conservation Biology	Faculty of Science	BIOL	1001	3	A continuation of SC/BIOL 1000 3.00, exploring major unifying concepts and fundamental principles of biology, building on earlier concepts. Topics include mechanisms of evolution, ecology, a survey of biodiversity and conservation biology. The laboratory and lecture components must be passed independently to pass the course. Prerequisites: 12U Biology or SC/BIOL 1500 3.00; 12U Chemistry or SC/CHEM 1500 4.00. Course Credit Exclusions: SC/ISCI 1102 3.00; SC/ISCI 1110 6.00.	en	SDG 15 Life on Land		
Ecology and Conservation Science	Faculty of Environmental & Urban Change	ENVS	2420	3	This course presents the main scientific concepts, principles and approaches of ecology and conservation science that are applicable to environmental problems frequently encountered in Environmental Studies. Topics include diagnosing species declines, conservation genetics, ecology of invasive species, habitat fragmentation, protected areas and urban wildlife. Prerequisite: EU/ENVS 1500 3.0 or ES/ENVS 1500 6.0 or SC/BIOL 1001 3.0	en	SDG 15 Life on Land		

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Biodiversity and Conservation	Faculty of Science	NATS	1940	6	<p>This course acquaints students with Earth's rich species diversity. Topics include scientific developments in the classification of diversity, major groups of organisms, patterns of change in diversity over time including extinction, modern threats to biodiversity, and responses to such threats. NCR: any student who has passed or is taking SC/BIOL 1000 3.00, SC/BIOL 1001 3.00 or SC/BIOL 1010 6.00.</p>	<p style="text-align: center;">SDG 15 Life on Land</p>		
Northern Ecosystems: A Natural History of Arctic Regions	Faculty of Environmental & Urban Change	ENVS	4447	3	<p>Examines the interactions between species and their environment in northern terrestrial and marine habitats. We review the postglacial history, climate, and energy flow in boreal and arctic ecosystems and examine evolutionary adaptations to cold, highly-seasonal environments. We consider strategies for wildlife management and conservation and the threats posed by climate change, resource development, and pollution. Prerequisite: EU/ENVS 3402 3.00 or EU/ENVS 2420 3.00 or permission of the Instructor. PRIOR TO FALL 2020: ES/ENVS 3402 3.00 or ES/ENVS 2420 3.00</p>	<p style="text-align: center;">SDG 14 Life Below Water</p>	<p style="text-align: center;">SDG 13 Climate Action</p>	<p style="text-align: center;">SDG 15 Life on Land</p>