

York University 2022 SDG Course Mapping - SDG 14

| COURSE TITLE | FACULTY | SUBJECT | CODE | CREDIT | DESCRIPTION | LANGUAGE | PRIMARY SDG | SECONDARY SDG | ANCILLIARY SDG |
|--|---|---------|------|--------|---|----------|----------------------------|--------------------------|------------------------|
| Physiology of Global Change | Faculty of Graduate Studies | BIOL | 5153 | 1.5 | Focuses on global environmental change (past and present) covering broad ranges of topics: from changing global temperatures to ocean acidification. Changing environments are discussed in terms of the resulting physiological stresses and adaptations that have occurred/are occurring in diverse taxa. Emphasis is placed on basic physiology principals, biochemistry, and molecular biology in the context of evolution and ecology. | en | SDG 14 Life Below Water | SDG 13 Climate Action | |
| Physiology of the Invertebrates | Faculty of Science | BIOL | 3030 | 4 | A treatment of the physiology of major invertebrate phyla with emphasis on interphyletic relationships. Laboratory exercises address the diversity and physiology of invertebrates. Prerequisite: SC/BIOL 2030 4.00. | en | SDG 14 Life Below Water | | |
| Fish Biology | Faculty of Science | BIOL | 4340 | 3 | A study of fish biology (ichthyology), including anatomy, systematics, physiology, behaviour and ecology of freshwater and marine fishes. Special emphasis is placed on the unique features of fishes and their functional adaptation to aquatic environments. Prerequisite: SC/BIOL 2030 4.00. Note: Completion of 60 credits required. | en | SDG 14 Life Below Water | | |
| Northern Ecosystems: A Natural History of Arctic Regions | Faculty of Environmental & Urban Change | ENVS | 4447 | 3 | 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 | en | SDG 14 Life Below Water | SDG 13 Climate Action | SDG 15 Life on Land |
| Hydrography | Lassonde School of Engineering | ESSE | 4650 | 3 | Hydrography and its role in offshore management. Elements of oceanography, tides and water levels, seabed and sea water properties. Underwater acoustics. Bathymetric and imaging methods. Marine positioning and navigation. Prerequisite: LE/ESSE 4610 3.00. PRIOR TO FALL 2014: Prerequisite: LE/EATS 4610 3.00 or LE/ENG 4110 3.00. PRIOR TO SUMMER 2013: Prerequisite: SC/EATS 4610 3.00 or SC/ENG 4110 3.00. | en | SDG 14 Life Below Water | | |
| Dynamics of Snow and Ice | Faculty of Environmental & Urban Change | GEOG | 4310 | 3 | Examines the formation, distribution, structure and degradation of snow, as well as lake, river and sea ice. Normally offered in alternate years. Prerequisite: AP//GEOG 2400 6.00 or SC/GEOG 2400 6.00. | en | SDG 14 Life Below Water | | |

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| Swimming I | Faculty of Health | PKIN | 200 | 0 | An introduction to the fundamentals of stroke technique for front crawl, back crawl, elementary backstroke, breast-stroke and sidestroke. Non-swimmers are encouraged to enrol as this course will focus on deep water skills and safety requirements. Note: Students who have completed at least one of the following, the Canadian Red Cross Swim Kids 10 or AquaQuest 12; the Toronto Learn to Swim Ultra 9; the YMCA of Canada Star 6; or the Lifesaving Society of Canada Learn to Swim Level 6, should take HH/PKIN 0270 0.00, HH/PKIN 0285 0.00 or HH/PKIN 0294 0.00 instead. | en | SDG 14 Life Below Water | | |
| Aqua Fitness (Deep Water) | Faculty of Health | PKIN | 285 | 0 | Provides students with fitness activities and teaching techniques in a deep water aquatic environment. Students can opt to take WaterArt teacher certification. All classes will include theory and practical activities which are low- to non-weight bearing. Prerequisite: HH/PKIN 2000 2.00 or equivalent. | en | SDG 14 Life Below Water | | |
| Sports Conditioning in an Aquatic Environment | Faculty of Health | PKIN | 286 | 0 | Focuses on training techniques in a deep water aquatic environment such as resistance training, increased flexibility through buoyancy, cardiovascular enhancement and endurance. Core stabilization is greatly intensified by working vertically in the water. Lessened impact on the joints helps to prevent injuries or assists in healing them. Prerequisite: HH/PKIN 0200 0.00 or equivalent. Note: There is an additional option for certification as a WaterArt Sports Conditioning Specialist. Equivalency for this course is the Canadian Red Cross Swim Kids 10 or AquaQuest 12; the Toronto Learn to Swim Ultra 9; the YMCA of Canada Star 6; or the Lifesaving Society of Canada Learn to Swim Level 6. | en | SDG 14 Life Below Water | | |