GHENT UNIVERSITY

Course Specifications

From the academic year 2020-2021 up to and including the academic year

Secondary Impacts of Harvest on Wild Populations and Ecosystems (C004333)

Due to Covid 19, the education and assessment methods may vary from the information displayed in the schedules and course details. Any changes will be communicated on Ufora.

Course size *(nominal values; actual values may depend on programme)*

Credits 5.0 **Study time 125 h** **Contact hrs** 39.0h

Course offerings in academic year 2021-2022

A (semester 1) English Gent

Lecturers in academic year 2021-2022

Minto, Cóilín	GALWAY03	lecturer-in-charge
O'Dwyer, Katie	GALWAY03	co-lecturer

Offered in the following programmes in 2021-2022	**crdts**	**offering**
International Master of Science in Marine Biological Resources	5	A

Teaching languages

English

Keywords

Fisheries, Trophic cascades, harvest theory

Position of the course

Contents

This module will provide an overview of the effects of harvesting on wild populations and the communities in which they exist. Traditional approaches to harvesting largely assume a population exists in isolation and that harvesting acts to primarily change the size and or composition of the population. Increasingly, however, evidence suggests that failure to consider secondary effects of harvesting may lead to decreased productivity, population decline and in some cases extirpation.

Syllabus to include:

- Review of compensatory harvest theory
- Harvesting populations within a community
- Trophic interactions and Trophic cascades
- Stable states
- Evolutionary effects of fishing and hunting
- Management trade-offs
- Case studies

Initial competences

Final competences

1 Demonstrate an understanding of the extant theory of harvesting.
2 Synthesize the latest research on the secondary effects of population harvesting.
3 Critically evaluate the efficacy of current methods to incorporate secondary effects.
4 Explain implications of optimal population harvesting.
5 Describe how secondary impacts can be accounted for when evaluating harvest strategies.

Conditions for credit contract

Access to this course unit via a credit contract is determined after successful competences assessment

Conditions for exam contract

This course unit cannot be taken via an exam contract

Teaching methods

Seminar

Extra information on the teaching methods

This module utilises a case study approach, seminal research papers are evaluated and discussed by the learners. This module also uses a role play component where learners must adopt a viewpoint supported by available evidence in debate with their peers tasked with holding opposite viewpoints

Learning materials and price

none

References

Journals and other module material will be placed on moodle by the module co-ordinator

Course content-related study coaching

Students experiencing difficulties should engage with course staff, or academic support units within GMIT

Assessment moments

continuous assessment

Examination methods in case of periodic assessment during the first examination period

Examination methods in case of periodic assessment during the second examination period

Examination methods in case of permanent assessment

Assignment

Possibilities of retake in case of permanent assessment

examination during the second examination period is possible in modified form

Calculation of the examination mark

100 % continuous assessment by way of assignments