

## 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, C  il  n

O'Dwyer, Katie

GALWAY02 lecturer-in-charge

GALWAY02 co-lecturer

**Offered in the following programmes in 2021-2022**

[International Master of Science in Marine Biological Resources](#)

**crdts**

5

**offering**

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