1. **Title of the module**

HECO3030 (DI303) Survey and Monitoring for Biodiversity

1. **Division which will be responsible for management of the module**

Division of Human and Social Sciences

1. **The level of the module (Level 4, Level 5, Level 6 or Level 7)**

Level 4

1. **The number of credits and the ECTS value which the module represents**

15 credits (7.5 ECTS)

1. **Which term(s) the module is to be taught in (or other teaching pattern)**

Autumn or Spring

1. **Prerequisite and co-requisite modules**

None

1. **The courses of study to which the module contributes**

BSc Wildlife Conservation (core)

May be available as optional on:

BSc Environmental Social Science

BSc Anthropology

BSc Biology

Also available as an elective module.

1. **The intended subject specific learning outcomes.
On successfully completing the module students will be able to:**

8.1 Understand and apply the principles underlying good survey design and analysis in biodiversity assessment.

8.2 Demonstrate a practical knowledge of principle survey methods required for assessing populations and/or diversity of a range of different animal taxa

8.3 Consider health and safety, biosecurity, ethical and animal welfare issues relating to fieldwork involving the assessment of populations

8.4 Analyse and present data relating to the survey and monitoring of populations.

8.5 Write-up survey and monitoring data in the form of concise scientific reports.

1. **The intended generic learning outcomes.
On successfully completing the module students will be able to:**

9.1 Confidently demonstrate analytical skills through report writing

9.2 Communicate effectively to a variety of audiences and/or using a variety of methods

9.3 Demonstrate skills in field survey techniques and logistical planning

1. **A synopsis of the curriculum**

The broad aim of this module is to provide students with practical field experience in biodiversity monitoring and assessment methods. Specific aims are to introduce students to a range of basic field techniques and develop their skills in the collection, analysis and presentation of field data. The module provides an essential practical element of the Wildlife Conservation programme.

The module is spread over the term, allowing different groups of organisms to be examined as they become available for survey, and the dates may vary slightly from year to year. Groups of students will each undertake survey or monitoring projects under the supervision of a member of staff. Each project will assess the biodiversity of an appropriate taxonomic group (eg. birds, amphibians, reptiles, plants, etc.) in either a terrestrial or freshwater habitat. Students will be expected carry out a range of surveys, analyse the data and write-up their results.

1. **Reading list (Indicative list, current at time of publication. Reading lists will be published annually)**

Dytham, C. (2010) Choosing and Using Statistics: a Biologist’s Guide, 3rd Edition. Wiley-Blackwell

Elzinga, C.L et al (2001) Monitoring Plant and Animal Populations: a Handbook for Field Biologists. Wiley-Blackwell.

Henderson, P.A. (2003) Practical Methods in Ecology. Wiley-Blackwell.

Krebs, C.J. (1999) Ecological Methodology, 2nd Edition. Addison-Wesley Educational Publishers.

Sutherland, W.J. (2006) Ecological Census Techniques: a Handbook, 2nd Edition. Cambridge University Press.

1. **Learning and teaching methods**

Total contact hours: 30

Private study hours: 120

Total study hours: 150

1. **Assessment methods**
	1. Main assessment methods

Assignment - Birds Practical write-up (33%)

Assignment - Wildlife Practical write-up (33%)

Assignment - Amphibians Practical write-up (34%)

13.2 Reassessment methods

Reassessment Instrument: 100% coursework.

1. ***Map of module learning outcomes (sections 8 & 9) to learning and teaching methods (section 12) and methods of assessment (section 13)***

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Module learning outcome** | *8.1* | *8.2* | *8.3* | *8.4* | *8.5* | *9.1* | *9.2* | *9.3* |
| **Learning/ teaching method** |  |  |  |  |  |  |  |  |
| Practical Fieldwork activities | **X** | **X** | **X** | **X** |  |  |  | **X** |
| Lectures and Briefing Sessions | **X** | **X** | **X** |  | **X** | **X** | **X** | **X** |
| Independent Study and Preparation | **X** | **X** | **X** |  | **X** | **X** | **X** | **X** |
| **Assessment method** |  |  |  |  |  |  |  |  |
| *Practical write-up (Birds)* | **X** | **X** | **X** | **X** | **X** | **X** | **X** | **X** |
| *Practical write-up (Wildlife)*  | **X** | **X** | **X** | **X** | **X** | **X** | **X** | **X** |
| *Practical write-up (Amphibians)* | **X** | **X** | **X** | **X** | **X** | **X** | **X** | **X** |

1. **Inclusive module design**

The Division recognises and has embedded the expectations of current equality legislation, by ensuring that the module is as accessible as possible by design. Additional alternative arrangements for students with Inclusive Learning Plans (ILPs)/declared disabilities will be made on an individual basis, in consultation with the relevant policies and support services.

The inclusive practices in the guidance (see Annex B Appendix A) have been considered in order to support all students in the following areas:

a) Accessible resources and curriculum

b) Learning, teaching and assessment methods

1. **Campus(es) or centre(s) where module will be delivered**

Canterbury

1. **Internationalisation**

The module provides an essential practical application for the conservation of wildlife. The assessment methods are designed to enable students to successfully complete their own independent projects and data gathering when they are out in the field, both abroad and at home.

**DIVISIONAL USE ONLY**

**Revision record – all revisions must be recorded in the grid and full details of the change retained in the appropriate committee records.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Date approved | Major/minor revision | Start date of the delivery of revised version | Section revised | Impacts PLOs (Q6&7 cover sheet) |
| 11/08/17 | Minor | Spring 2018 | Template Transfer | No |
| 22/11/18 | Minor | Spring 2020 | 7 | No |
| 21.07.21 | Minor | Sept 21 | 13, 14 | No |

Revised FSO Jan 2018