1. **Title of the module**

SACO8120 (SE812) Research Design and Advanced Analytical Methods

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

School of Anthropology and Conservation, Division of Human and Social Sciences

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

Level 7

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**

MSc Forensic Osteology and Field Recovery Methods

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

8.1 evaluate methodologies and develop critiques of them and, where appropriate, to propose new hypotheses and construct a research project with testable hypotheses.

8.2 develop different research strategies and designs for projects using quantitative statistical methods.

8.3. analyze data with univariate and multivariate statistical techniques, using associated computer software and evaluate critically current research and advanced scholarship in the discipline

8.4. present results suitable for a scientific report.

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

9.1. critically evaluate and problem solve.

9.2 independently learn and time manage

9.3. organise and present information in a clear and concise manner.

9.4. demonstrate development of advanced computing practical skills.

9.5. demonstrate further development of communication in writing.

1. **A synopsis of the curriculum**

This module will introduce students to research design and hypothesis testing, drawing upon the different scientific approaches used in biological and forensic anthropology. Core statistical components, such as inference for parametric statistical testing, will be covered. This module will have an extensive, computer practical-based component that will enable students to run advanced statistical tests (univariate and multivariate), which will be supported by lectures. Upon completion students will understand the principle qualitative and quantitative analytical approaches to research, and the best ways of presenting results.

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

Lasker, G.L. and Gastel, B. (2005) Research strategies in human biology. Cambridge University Press.

Day , R.A. ad Gastel, B. (2011) How to write and publish a scientific paper. (7th edition) Greenwood press.

Field, A. (2013) Discovering Statistics Using IBM SPSS Statistics 4th edition SAGE Publications Ltd

Tabachnick BG, Fidell LS. 2013. Using multivariate statistics (6th ed). Allyn and Bacon

1. **Learning and teaching methods**

Total contact hours: 20

Private study hours: 130

Total study hours: 150

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

Report (3000 words) (80%)\*

Project Proposal (20%)

\* This element is pass compulsory and must be passed to achieve the learning outcomes of the module.

13.2 Reassessment methods

Reassessment Instrument: Like for Like

1. ***Map of module learning outcomes (sections 8 & 9) to learning and teaching methods (section12) and methods of assessment (section 13)***

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Module learning outcome** | *8.1* | *8.2* | *8.3* | *8.4* | *9.1* | *9.2* | *9.3* | *9.4* | *9.5* |
| **Learning/ teaching method** |  |  |  |  |  |  |  |  |  |
| Private Study | **X** | **X** |  |  |  | **X** | **X** | **X** | **X** |
| *Lectures* | **X** | **X** | **X** | **X** | **X** |  |  |  |  |
| *Computer Practicals* |  |  | **X** | **X** | **X** |  | **X** | **X** |  |
| **Assessment method** |  |  |  |  |  |  |  |  |  |
| *Report* | **X** | **X** | **X** | **X** | **X** | **X** | **X** | **X** | **X** |
| *Project proposal* | **X** |  |  |  | **X** |  | **X** |  | **X** |

1. **Inclusive module design**

The School 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**

Data and statistical analysis is a universal dialogue between academics. Much of the critical evaluation will be from international peer review journals, and research.

**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) |
|  |  | Sept 21 | 13,14 | No |
|  |  |  |  |  |