



Course Syllabus

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|-------------------------|-----------------------|--------------------------------|
| Course Code | Course Title | ECTS Credits |
| BIOL-492 | Research Project II | 10 |
| Prerequisites | Department | Semester |
| BIOL-491 | Life Sciences | Spring |
| Type of Course | Field | Language of Instruction |
| Required | Biology | English |
| Level of Course | Lecturer(s) | Year of Study |
| 1 st Cycle | Dr. Stella Nicolaou | 4 th |
| Mode of Delivery | Work Placement | Co-requisites |
| Face to face | N/A | None |

Course Objectives:

The main objectives of the course are to:

- Give students the opportunity to carry out an independent research project.
- Enable student to collect, report and interpret data.
- Enable students to communicate in writing and to defend orally their findings in a scientific manner.

Learning Outcomes:

After completion of the course students are expected to be able to:

1. Demonstrate the procedures and practices of scientific research.
2. Apply skills to do literature search and evaluate published scientific findings.
3. Formulate a hypothesis and compare published specific research approaches and methodologies to design experiments and test the research hypothesis.
4. Plan and carry out independent research.
5. Measure and record data, appraise, critically evaluate and interpret results and evaluate these on the basis of published literature.
6. Write and orally communicate and debate the outcome of the research project in a scientific and professional manner.
7. Apply moral and ethical issues in research contact and research reporting including AI use.

Course Content:

Upon approval of the proposal during the first part of the course (BIOL-491 Research Project I), the student is expected to begin the execution of their project as early as possible and no later than the beginning of the term, with a completion date the last week of the term. The execution of the research project will require a more independent nature of work that is based on student responsibility and initiative and on discussions with the assigned supervisor.

Types of Projects:

- BIOL-492A
 - Laboratory-based
 - Field work
- BIOL-492
 - Epidemiology
 - Reviews (e.g systematic, scoping, rapid etc)

Any other relevant project (after approval from the course lead and the coordinator)

Learning Activities and Teaching Methods:

Independent laboratory or field research on assigned project; Literature searches. One-to-one discussions and review of results and progress made with assigned supervisor. Writing of a final research report.

Assessment Methods:

For award of credits the student is required to submit, a final research report and to orally present their research project. The research report should detail the research conducted by the student and will be judged by the soundness of the research procedure followed, and the thoroughness and clarity of thought evident in analyzing and critically evaluating the project results. It should be written in the style of a major scientific journal in the area, following the specified guidelines provided. The student will present and orally defend their research project to a committee.

Assessment:

1. Supervisor (effort, quality of work, collaboration)
2. Thesis (examiners)
3. Oral Presentation (examiners)

Recommended Textbooks/Reading:

*** Students are advised to read the updated scientific articles (primary and secondary) based on the project type and topic.**

| Title | Author | Publisher | Year | ISBN |
|---|------------------|-----------------------|------|--|
| Introduction to research methods: a practical guide for anyone undertaking a research project | Catherine Dawson | Robinson | 2019 | 9781408711040 (ebook) 9781408711057 (paperback) |
| A Survival Guide for Health Research Methods | Tracy Ross | McGraw-Hill Education | 2012 | Available from: ProQuest Ebook Central |
| Exploring Research | Neil Salkind | Pearson | 2018 | 1292156309 (ebook) 9781292156309 (ebook) |
| Or the latest edition of the above-mentioned books. Updated scientific articles (primary and secondary) based on the project | | | | |