



<b>Course Code</b> SPSC-490	<b>Course Title</b> Senior Year Project	<b>ECTS Credits</b> 6
<b>Department</b> Sports Science	<b>Semester</b> Spring and Fall	<b>Prerequisites</b> SPSC-300; SPSC-315; SPSC-316
<b>Type of Course</b> Elective	<b>Field</b> Sports science & PE	<b>Language of Instruction</b> Greek
<b>Level of Course</b> Undergraduate	<b>Year of Study</b> 4 <sup>th</sup>	<b>Lecturer</b> All lecturers (depending on the research topic)
<b>Mode of Delivery</b> face-to-face	<b>Work Placement</b> N/A	<b>Co-requisites</b> None
<b>Recommended Optional Programme Components:</b> N/A		

### **Objectives of the Course:**

In this course students will complete a research project. In consultation with a tutor, students undertake a project on a topic of their choice. The project should involve the review of literature, the framing of research question (s), the collection of data in a laboratory or field setting, and the discussion of the results leading to a written dissertation of 8,000 words. The work is mainly completed independently and each student will be allocated a supervising tutor with whom he/she will meet regularly.

#### **Aims:**

1. Identify and refine, through the review of literature and a consideration of research methodologies, a research question.
2. Develop an experimental design and refine appropriate skills for data collection.
3. Produce a statement on ethics for the proposed experimentation based on current legislation and professional practice.
4. Organise and complete data collection.
5. Analyse and interpret data.
6. Produce a written report.

### **Learning Outcomes:**

By the end of this course students should be able to:

1. Review literature on a specific topic to identify the principle contemporary issues placed within the content of the prevailing theories and concepts of the (sub) discipline.
2. Formulate a research question based on the above.
3. Identify an appropriate experimental design and be able to rationalize that choice.

4. Develop the relevant skills needed for data collection.
5. Demonstrate and appreciate of legislation and professional practice through the production of a statement on ethics for the proposed study.
6. Organise and complete the collection of data in a valid and reliable manner.
7. Analyse and interpret data using a sophisticated approach relevant to the research methodology.
8. Discuss data in the context of the research question and the extant literature.
9. Disseminate findings by means of poster communication.
10. Produce a written report.
11. Work independently and as part of a team in an effective manner.

**Course Contents:**

1. Reviewing of literature and a consideration of research methodologies,
2. Identifying a research question.
3. Designing and refining appropriate skills for data collection.
4. Producing a statement on ethics for the proposed experimentation based on current legislation and professional practice.
5. Organising and completing data collection.
6. Analysing and interpreting data.
7. Producing a scientific written report.

**Learning Activities and Teaching Methods:**

Research Supervision, Tutorials

**Assessment Methods:**

Scientific Proposal, Report abstract, Poster Presentation, Oral Presentation, Final report: introduction, methods, results, discussion

**Required Textbooks/Reading:**

Authors	Title	Publisher	Year	ISBN
J.R. Thomas, Jack K. Nelson, Stephen J. Silverman	Research Methods in Physical Activity-5 <sup>th</sup> Edition	Human Kinetics, Champaign, II.	2005	0736056203

**Recommended Textbooks/Reading:**

Authors	Title	Publisher	Year	ISBN
Gratton, C. and Jones, I.	Research Methods for Sport Studies	London: Routledge.	2004	0415268788
Vincent, W.J.	Statistics in Kinesiology-3 <sup>rd</sup> Edition	Human Kinetics, Champaign, 11.	2005	0736057927
Salkind, N.J.	Statistics for People who (think they) Hate	Sage Publications,	2007	978-1-4129-5151-7

	Statistics	Inc.		
Mr Alistair W Kerr, Howard K Hall, Stephen A Kozub	Doing Statistics with SPSS	London: Sage	2002	0761973850
Morrow, J.R., Jackson, A.W., Disch, J.G. and Mood, D.P.	Measurement and evaluation in human performance. 2nd ed	Human Kinetics, Champaign, IL.	2005	0736065032