



Course Syllabus

Course Code	Course Title	ECTS Credits
PSYC-512	Advanced Statistics and Research Methods II	7.5
Prerequisites	Department	Semester
PSYC-511	Social Sciences	Spring
Type of Course	Field	Language of Instruction
Required	Psychology	English
Level of Course	Lecturer(s)	Year of Study
2 nd Cycle	Dr. Menelaos Apostolou	1 st
Mode of Delivery	Work Placement	Corequisites
Face-to-face	N/A	None

Course Objectives:

This is the second course in a sequence of four courses leading up to the completion of the required Thesis project. The main objectives of the course are to:

- Equip students with knowledge of statistical concepts and methods relevant to psychological research.
- Apply research methods to research studies within clinical/counseling psychology to formulate research questions and research hypotheses.
- Design and carry out research projects in counseling/clinical psychology.
- Choose and apply appropriate methods of statistical analysis in clinical/counseling psychology.
- Interpret and evaluate results of clinical/counseling psychology research.
- Become familiar with the use of statistical packages.

Learning Outcomes:

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

1. Design research studies within clinical/counseling psychology.
2. Consume correctly research outcomes and studies.
3. Use statistical packages.

4. Choose the correct methodological design and statistical analyses for each hypothesis testing.

Course Content:

- Advanced topics in research methods
- Online qualitative and quantitative research methods
- Mixed research methods: Combining qualitative and quantitative research methods
- Two-way ANOVA
- MANOVA
- ANCOVA
- Regression
- Logistic Regression
- Multiple Regression
- Exploratory Factor Analysis.
- Power Analysis

Learning Activities and Teaching Methods:

Interactive Lectures, Lab Presentations, Lab Tutorials, Practical Exercises

Assessment Methods:

Project, mid-term exam, final exam

Required Textbooks / Readings:

Title	Author(s)	Publisher	Year	ISBN
The psychologist as detective	Smith, R. A., & Davis, S. F.	Pearson	2012 (6th Ed.)	978-0205859078
Discovering statistics using SPSS	Field, A.	Sage	2017 (5th Ed.)	9781526445780

Recommended Textbooks / Readings:

Title	Author(s)	Publisher	Year	ISBN
Publication Manual of the American Psychological Association	American Psychological Association	American Psychological Association	2019 (7 th Ed.)	978-1433832178
Research Methods in Clinical Psychology: An introduction for students and practitioners	Barker, C., Pistrang, N. & Elliott, R.	Wiley Blackwell	2016	978-1-118-77320-8
Qualitative Research Methods	Hennink, M., Hutter, I. & Bailey, A.	Sage	2020 (2 nd Ed.)	978-1473903906