**Florida Institute of Technology**

**ADDING A NEW COURSE TO THE CURRICULUM**

This is a request for reactivation of a course in the system. □ Yes □ No

New courses are available beginning with the fall term in which they appear in the University Catalog.

<table>
<thead>
<tr>
<th>SUBJECT</th>
<th>PSY</th>
<th>COURSE NO.*</th>
<th>3 9 0 1</th>
<th>CRedit HOURS</th>
<th>3</th>
<th>ACADEMIC YEAR TO BE ADDED TO THE FILE</th>
<th>Fall 2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>(e.g., CSCE)</td>
<td>(e.g., 1301)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Justify level if 1000-levels and no co- or prerequisites*

<table>
<thead>
<tr>
<th>CLASS HOURS</th>
<th>45</th>
<th>LECTURE HOURS</th>
<th>N/A</th>
<th>LAB HOURS</th>
<th>N/A</th>
<th>CONTACT HOURS (CEU ONLY)</th>
<th>N/A</th>
</tr>
</thead>
</table>

**DEPARTMENT** School of Psychology (e.g., Computer Sciences) **SCHEDULE TYPE** Virtual (H) (e.g., Lecture, Lab or Special Topics/Project)

□ COLLEGE OF AERONAUTICS – 23
□ COLLEGE OF BUSINESS – 24
□ COLLEGE OF ENGINEERING – 1
□ COLLEGE OF PSYCHOLOGY AND LIBERAL ARTS – 25

□ COLLEGE OF SCIENCE – 26
□ EXTENDED STUDIES/AMB COLLEGE OF BUSINESS – 90
□ SCHOOL OF HUMAN-CENTERED DESIGN, INNOVATION & ART – 28

**COMPUTER TITLE** Experimental Psych 1
**COURSE TITLE** Experimental Psychology 1
Restricted to 25 characters, including spaces

This course will be entered into the system as: [ ] Bi-Level [ ] Cross-Listed [ ] Dual-Numbered [ ] Full-Load [ ] None of these/Standard Listing

**CATALOG DESCRIPTION OF COURSE** Restricted to 350 characters, including spaces

Covers experimental methodology and statistics. Introduces students to fundamental concepts in experimental design and data analysis. Emphasizes the application, use and interpretation of statistics through the use of computer-based software. First in a two-course series.

This description has been approved by the catalog office. [Signature] 3/18/2016

**In addition, please attach a course syllabus and/or more detailed description.**

**RESTRICTIONS**

□ Prerequisite PSY 3012
□ Corequisite Course Number and and or
□ Prerequisite PSY 3013
□ Corequisite Course Number and and or
□ Prerequisite Course Number and and or

**ADDITIONAL RESTRICTION** and or (Requirement: Must be enrolled in Florida Tech Online.)

**GRADES TO BE ISSUED**

□ A, B, C, D, F □ A, B, C, D, F, CEU/Audit
□ CEU □ S, U
□ P, F □ Other

**If this course replaces a course currently offered in BANNER, please indicate old course information and the date/term the course may be removed from the system.**

<table>
<thead>
<tr>
<th>SUBJECT Alpha Prefix (e.g., CSCE)</th>
<th>COURSE NO. (e.g., 1301)</th>
<th>TERM TO INACTIVATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>□ Yes □ No</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

□ Yes □ No □ Yes □ No Will this course be used to measure program-level student learning outcomes? If yes, review and signature required.**
Will this course be used to satisfy the scholarly inquiry requirement? If yes, attach "Q" materials for review.
If this course impact any existing programs? If yes, attach "Changing Graduation Requirements" form for each program that is impacted.

**APPROVALS:** On completion of description and course number verification, affix appropriate signatures as indicated, and submit to the Office of Graduate Programs, or Undergraduate Curriculum Committee Chair for placement on agenda.

[Signature] 3/18/15
**Chair, Graduate Council** Date

[Signature] 3/18/16
**Department Head/Program Chair** Date

[Signature] 3/18/16
**Dean of Associate Dean** Date

**CATALOG & CURRICULUM MANAGER**

These changes/additions have been made for the University Catalog and entered into the BANNER term named above.

**REGISTRAR’S USE ONLY**

SCARSCE __________ SCADT __________ SCAFREQ __________ SCABASE __________

SCARES __________ Operator Init. __________ Date

**FLORIDA INSTITUTE OF TECHNOLOGY • OFFICE OF THE REGISTRAR**

150 West University Boulevard, Melbourne, FL 32901-6975 • (321) 674-8114 • Fax (321) 674-7827

**RGR-253-915**
COURSE DESCRIPTION

Covers experimental methodology and statistics. Introduces students to fundamental concepts in experimental design and statistics which support research in the field of psychology with emphasis on the application, use, and interpretation of statistics through the use of computer-based software. First in a two-course series.

COURSE OBJECTIVES

By the end of this class, you should be able to:
1. Summarize and organize data.
2. Select and calculate the appropriate statistical test for a given research methodology.
3. Use inferential statistical tests to determine whether a variable influences another variable or whether such findings are driven by chance.
4. Understand how concepts such as probability, power, and effect size influence the interpretation of your results.
5. Critically evaluate research findings in scientific journals and in the media.
6. Use statistical software to build a dataset and enter, screen, and transform data.
7. Execute and interpret output for descriptive statistics and inferential statistical tests, such as $t$-tests, ANOVA, correlation, and regression.
8. Demonstrate the conventional APA reporting standards for presenting statistics and write an APA Style Results section.
9. Demonstrate the proper construction of APA Style tables and figures.

TEXTBOOKS AND MATERIALS

Pre-Requisite: PSY 3012: Research Methods in Applied Psychology; PSY 3013 Applied Psychology

Course Outline:

Week 1
Topic: Research Methods Review
Readings: Gravetter & Wallnau: Appendix A, Chapters 1 & 2
Green & Salkind: pp. 1-38

Week 2:
Topic: Descriptive Statistics
Readings: Gravetter & Wallnau: Chapters 3, 4, 5, & 6
Green & Salkind: pp. 51-65 & 109-142

Week 3
Topic: Foundations of Inferential Stats/Null Hypothesis
Significance Testing
Readings: Gravetter & Wallnau: Chapters 7 & 8
Green & Salkind: pp. 69-91

Week 4
Topics: The \( t \) Statistic
Readings: Gravetter & Wallnau: Chapters 9, 10, & 11
Green & Salkind: pp. 145-161

Week 5
Topic: ANOVA I
Readings: Gravetter & Wallnau: Chapters 12 & 13 (pp. 394-409)

Week 6
Topic: ANOVA II
Readings: Gravetter & Wallnau: Chapter 13 (pp. 409-429)
Green & Salkind: pp. 172-199 & 218-230

Week 7
Topic: Correlation, Regression, and Assessing the Reliability and
Validity of Measures
Readings: Cravetter & Wallnau: Chapter 14
Green & Salkind: pp. 231-238 & 293-313

Week 8
Topic: Multiple Regression, Nonparametric Tests, and Review
Readings: Gravetter & Wallnau: Chapter 15
Green & Salkind: pp. 248-269 & 320-337

Required Textbooks:


---

**GRADING**

Course grades are determined by the following requirements:

Exams (4 @ 100 points each) = 400 pts
<table>
<thead>
<tr>
<th>Assignment</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework Assignments (8 @ 12.5 points each)</td>
<td>100 pts</td>
</tr>
<tr>
<td>Lab Assignments (8 @ 50 points each)</td>
<td>400 pts</td>
</tr>
<tr>
<td>Lab Participation (8 @ 12.5 points each)</td>
<td>100 pts</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>1000 pts</strong></td>
</tr>
</tbody>
</table>

Final letter grades will be assigned using the following scale:

- 900 points and above = A
- 800 points and above = B
- 700 points and above = C
- 600 points and above = D
- below 600 points = F