

Huron University College  
Department of Psychology

**Psychology 3830F – Computers and Research in Psychology**  
Fall 2018

**1.0 BASIC COURSE INFORMATION**

1.1 Course Number: Psychology 3830F

1.2 Course Name: Computers and Research in Psychology

1.3 Class Time: Fridays 10:30-1:30, Huron Computer Lab (listed as V107)

1.4 Instructor Information

Instructor: Dr. Sandra Hessels  
Office: A215  
Phone: (519) 438-7224 ext.257  
E-mail: [shessel@uwo.ca](mailto:shessel@uwo.ca)  
Office hours: Tuesdays 11:30-12:30 and Fridays 9:30-10:30 or by appointment  
Course website: <http://owl.uwo.ca> {login & password = UWO login ID and password}

**2.0. CALENDAR DESCRIPTION**

Topics include: fundamentals of operating microcomputers, use of statistical packages (e.g., SPSS), interpretation of computer output from univariate and multivariate statistical analyses.  
Antirequisite(s): Psychology 3800F/G or the former Psychology 381E.  
Prerequisite(s): Psychology 2830A and registration in an Honours Specialization or Major in Psychology or permission of the Department.

**3.0 COURSE LEARNING OBJECTIVES**

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

- choose appropriate statistical tests for data sets
- perform basic descriptive and inferential statistical procedures using computer software
- design and conduct an empirical research study

**4.0 DESCRIPTION OF CLASS METHODS**

This course has two components:

(1) lectures are designed to help students understand the rationale behind statistical procedures

(2) hands-on computer analysis will provide practice in the application of knowledge of statistical procedures

## **5.0 REQUIRED TEXTS**

Yockey, R.D. (2017). *SPSS Demystified, Third Edition*. Routledge.

## **6.0 EVALUATION**

1. Midterm: October 19, 15%
2. Quizzes: There will be three pop quizzes worth 5% each
3. Lab Report: due November 30, 35%
4. Final Exam (35%): The (cumulative) final exam will be scheduled by the Registrar's Office.

The Midterm, Quizzes, and Final Exam will be completed by each individual student, without assistance from anyone else, using SPSS in the Computer Lab.

The Lab Report will require analysis of data collected by each student, presented in an APA-style report. Further details will be made available in class.

## **7.0 Statement Regarding Grades in Psychology at Huron University College**

Students at Huron University College should consider a grade in the range from 75-79 to be evidence of satisfactory performance in a 3000-level Psychology course. Grades in the A (80-90%) range will only be awarded for performance that is demonstrably superior to the third or fourth-year standard associated with the Major or Minor modules. A grade of A+ (90-100%) will only be awarded rarely and only for work that is exceptional.

## **8.0 Late Penalties, Extensions, and Make-up Tests**

If the midterm is missed for a legitimate reason, appropriate documentation must be submitted in a timely fashion. For further details, see FASS Course Outline Appendix posted on OWL. If accommodation is granted, a make-up exam will be scheduled.

If a quiz is missed for a legitimate reason, the other quizzes will be re-weighted. If the final exam is missed for documented reasons, a make-up exam will take place at a time determined by Huron College.

The lab report is to be handed in at the *beginning* of class on the due date (both electronic and hardcopy versions). Any report handed in after this time will be considered late. The penalty for lateness is 2% of the grade per day late (including weekends) up to 14 days late, after which the grade will be zero. Any extensions for legitimate reasons (see Appendix below) must be

requested *before* the due date, and appropriate documentation submitted in a timely fashion. If accommodation is granted, an extension will be given at the discretion of the instructor. Note that due date extensions and re-weighting of a missed test will not be granted in order to facilitate travel arrangements (other than on compassionate grounds).

## 9.0 TENTATIVE SCHEDULE OF CLASSES

		Chapter
Sept 7	Introduction	1
Sept 14	Descriptive Statistics & Graphical Procedures	2, 3
Sept 21	t Tests	5, 6, 7
Sept 28	One-way Between-subjects ANOVAs	8
	Two-way Between-subjects ANOVAs	9
Oct 5	One-way Within-subjects ANOVAs	10
Oct 12	FALL BREAK	
<b>Oct 19</b>	<b>Midterm</b>	
Oct 26	Lab Report Session	
Nov 2	Two-way Mixed ANOVAs	11
Nov 9	Multivariate ANOVAs	TBD
Nov 16	Correlations	12
	Simple Linear Regression	13
Nov 23	Multiple Regression	14
<b>Nov 30</b>	Nonparametric Tests	15, 16
	<b>Lab Report due</b>	
Dec 7	Review	

EXAMS December 10 – 21, 2018