PSY 3204 section 521 Psychological Statistics Summer 2016

Syllabus v1, May 16th 2016*

May 16 – July 20; Mondays & Wednesdays 3:00pm – 4:50pm SMC room B336

<u>Instructor:</u> Michael A. Gillespie, Ph.D. <u>Office Hours:</u> M, W 2:00 – 3:00

SMC, B216 (B311 starting 6/6) or by appointment

941-359-4228 Mailbox: SMC Room C263

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Website: http://usfsm.edu/faculty-members/dr-michael-gillespie/

Materials

<u>Required Textbook:</u> Gravetter, F. J., & Wallnau, L.B. (2011/2014). *Essentials of Statistics for the Behavioral Sciences* (7th/8th ed.). Belmont, CA: Wadsworth.

(Any version of this text is fine. The schedule at the end of the syllabus is based on the 8th edition, which removed the old Chapter 12, so the chapter numbers are a bit different.)

<u>Required Software:</u> IBM SPSS. Available from the Tampa campus USF Computer Store. Simply email <u>mvls@usf.edu</u> and be sure to include your name and USF email address. Allow some time to process.

<u>Recommended Book:</u> Gravetter, F. J. (2011/2014). *Study Guide, Essentials of Statistics for the Behavioral Sciences* (7th/8th ed.). Belmont, CA: Wadsworth. 7th Edition ISBN-10: 0-495-90391-4

Course Description

<u>Content.</u> This course introduces data analysis in the context of behavioral research, covering measurement of psychological constructs, basic research design, statistical principles, descriptive and inferential statistics, the use of spreadsheets and statistical software packages to aid in analyses, and interpretation and reporting of statistical results. It is strongly recommended that you bring your laptop to class.

Prerequisites.

- 1) PSY 2012 (Introduction to Psychological Science) with a grade of C or higher.
- 2) Basic skills in math and algebra: Students should be able to solve all problems on the "Skills Assessment Preview Exam" in Appendix A (p. 550) of the textbook.
- 3) It is <u>strongly</u> recommended that students have recently taken a previous statistics course such as STA 2023.

Objectives. Upon completion of this course students should be able to:

- 1) Demonstrate the ability to define and measure psychological constructs in an objective and consistent manner.
- 2) Demonstrate knowledge of statistical terminology, principles, computational procedures, software applications, and practical applications for the following statistical concepts: variables, levels of measurement, frequency distributions, measures of central tendency and variability, probability and sampling, hypothesis testing, z-scores, t tests for independent samples and related samples, ANOVA, chisquare tests, and correlation.
- 3) Demonstrate an understanding of the appropriate statistical procedures for a given set of data characteristics (e.g., level of measurement level, data structure).
- 4) Demonstrate knowledge of the assumptions and appropriate circumstances for using the statistical concepts described in "2" above.
- 5) Enter data, carry out statistical procedures, and graph using the SPSS statistical software package.
- 6) Interpret results of the statistical procedures and report these results in accordance with APA guidelines (as set forth in the Publication Manual of the American Psychological Association, 6th ed.).

Psychology Mission Statement

The curriculum for a Psychology degree from USF Sarasota-Manatee prepares graduates for the many occupations (e.g., human services, community or public relations, administration, and advertising and market research) and graduate work in such disciplines as clinical, cognitive, and industrial/organizational psychology, education, gerontology, counseling, management, medicine, law, and other human service programs. By the time our majors are ready to graduate, they are equipped with two vital skill sets. First, our majors are familiar with numerous factors influencing behavior and mental processes, and the interactions among them. These factors range from the molecular (e.g., communication in the brain) to the cultural (e.g., human diversity). Second, our majors have developed the critical thinking skills necessary for the consumption and production of psychological research. These skills include writing and familiarity with the ethics of conducting psychological research. Students will have the opportunity to take a capstone course that allows them to create their own research study to demonstrate these competencies.

Assignments and Evaluation

Grading:

Exams: 150 points each *4 = 600 possible points

Assignments: 30 points each *10 = 300 possible points

Participation: 100 points Total: 1,000 points possible Final grades will be based on the following scale:

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A+
       970 -1000
Α
       930 - 1000
A-
       900 - 929
       870 - 899
B+
В
       830 - 869
B-
       800 - 829
C+
       770 - 799
\mathbf{C}
       730 - 769
C-
       700 - 729
D+
       670 - 699
D
       630 - 669
D-
       600 - 629
F
       0 - 599
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<u>Exams</u>: There are four exams, including the final. They are multiple-choice and non-cumulative. They will be approx. 50 items each. Make-up exams are permitted only under specific circumstances, explained in the make-up policy below.

<u>Homework Assignments</u>: There will be 10 homework assignments, designed to give you active practice with the concepts being taught, using SPSS for hands-on data analysis. Assignments submitted after the due date will receive a 2 point deduction for each class meeting they are late, up to a maximum of 10 points off. In addition, the assignments will not be graded until the end of the term.

<u>Participation:</u> I consider participation to be the constructive contribution to a learning environment. I do not require everyone to have comments/questions every single class, but if your involvement in class is conspicuously absent or consistently disruptive, it will likely result in a decreased participation grade (particularly if it's unclear whether or not you're attending to the material). Students who are – in general – actively involved and collegial in class discussions can expect to receive a good participation grade.

Extra credit: Students may earn up to 10 extra credit points through participating in approved USF/USF-SM Psychology Department research projects – *if and as they are available*. Each half-hour typically yields one point (1 experimental point = 1 extra credit point).

<u>First-day attendance</u>. Students not present during the first class will be dropped from the class.

Make-up/late policy:

Exams: If you are unable to take a test during the scheduled time, you must let me know before the test in order to schedule a make-up test. If you don't let me know before the test, documentation of a valid reason for missing the test (e.g., a note from the hospital) must be provided or you will not be allowed a make-up, resulting in a grade of zero. Make-up tests might be in a different format (e.g., essay). They will be proctored July 8,

- 1-3pm. If you must miss a test and you absolutely cannot make any of these dates, please let me know. Make-up exams will not be graded until the end of the term.
- Assignments are due in hard copy, in class, on the day they are due. Assignments submitted after the due date will receive a 2 point deduction for each class meeting they are late, up to a maximum of 10 points off. In addition, the assignments will not be graded until the end of the term.

Student Resources

Information Commons (General assistance, e.g., eLearning, Technology, Library resources, etc) SMC 2nd floor, main rotunda 941-359-4295 Hours 8:00 – 9:00 Monday – Friday

Learning Support Services (tutoring, workshops, etc). http://usfsm.edu/information-commons/tutoring/

Learning Support Services provides free tutoring to all actively-enrolled USFSM students, in both subject specific areas and academic writing. This service is available as a result of funding provided by the Student Government Association. The tutoring staff consists of both faculty consultants and specially trained peer tutors — undergraduate and graduate students that have met rigorous eligibility requirements.

Contact:

Su Senapati, Ph.D. (941) 359-4323 sbs2@sar.usf.edu

Students with Disabilities Services: http://usfsm.edu/disability-services/

The mission of Students with Disabilities Services is to encourage and support students with both temporary and permanent disabilities. The office is committed to developing an individualized plan for academic accommodations to enable each student to participate fully in the academic experience.

Contact:

8350 N. Tamiami Trail C107

Sarasota, FL 34243

disabilityservices@sar.usf.edu

Phone: (941) 359-4714 | TTY: (941) 359-4666 | Fax: (941) 359-4701

Students of Concern Assistance Team (SOCAT). http://legacy.usfsm.edu/socat/

Works with students who may be distressed or whose behavior is of concern to others to provide support and assistance before more significant problems arise. For yourself or others.

Contact: Allison Dinsmore

941-359-4714

SOCAT@sar.usf.edu

Counseling & Wellness Center: http://usfsm.edu/counseling-wellness-center/

The Counseling and Wellness Center is available to all currently registered New College and University of South Florida Sarasota Manatee students. They provide services in consideration of the individual as a whole and emphasize emotional and physical wellbeing, as well as academic concerns.

Contact:

Anne E. Fisher, Ph.D. 5800 Bay Shore Road New College of Florida Sarasota, FL 34243 Phone: (941) 487-4254 Fax: (941) 487-4256 Email: fisher@ncf.edu

Veteran's Services: http://www.usf.edu/student-affairs/veterans/

Formerly: Located at the Tampa campus, open Monday - Friday, 8:00 AM to 5:00 PM

(ALN 130).

Phone: 813-974-2291 Email: vetserve@usf.edu

Pending: Moving to the first floor at USFSM where the computer lab used to be!

USF Sarasota-Manatee Policies and Procedures

GRADING, EVALUATION AND ATTENDANCE POLICIES:

- A. USFSM policy requires that all students receive a graded assignment or examination prior to the semester's <a href="https://dream.org
- B. Specifically state the value of and the manner in which each assignment in the syllabus will be evaluated or graded.
- C. A precise description of the grading process, e.g. use of plus or minus grading, use of straight A,B,C,D and F system, point system with delineations of grades for accumulation of a stipulated number of points, etc.
- D. Attendance policy to include make up of missed work.
- F. (If using <u>Proctorio services</u> the following statement is required.)
 All students must review the syllabus and the requirements including the online terms and video testing requirements to determine if they wish to remain in the course.
 Enrollment in the course is an agreement to abide by and accept all terms. Any student may elect to drop or withdraw from this course before the end of the drop/add period.

Online exams and quizzes within this course may require online proctoring. Therefore, students will be required to have a webcam (USB or internal) with a microphone when taking an exam or quiz. Students understand that this remote recording device is purchased and controlled by the student and that recordings from any private residence must be done with the permission of any person residing in the residence. To avoid any concerns in this regard, students should select private spaces for the testing. The University library and other academic sites at the University offer secure private settings for recordings and students with concerns may discuss location

of an appropriate space for the recordings with their instructor or advisor. Students must ensure that any recordings do not invade any third party privacy rights and accept all responsibility and liability for violations of any third party privacy concerns. Setup information will be provided prior to taking the proctored exam. For additional information about online proctoring you can visit the online proctoring student FAQ.

USFSM AND USF SYSTEM POLICIES

Policies are available in the USFSM Catalog and at regulationspolicies.usf.edu

- **A. Academic Dishonesty**: The University considers any form of plagiarism or cheating on exams, projects, or papers to be unacceptable behavior. Please review the <u>USF System Regulation USF3.027 Academic Integrity of Students</u> and the <u>USF System Regulation USF6.0021 Student Code of Conduct.</u>
- **B.** Academic Disruption: The University does not tolerate behavior that disrupts the learning process. Please review <u>USF System Regulation USF3.025 Disruption of Academic Policy.</u>
- C. Contingency Plans: In the event of an emergency, it may be necessary for USFSM to suspend normal operations. During this time, USFSM may opt to continue delivery of instruction through methods that include but are not limited to: Canvas, online conferencing/collaboration tools, email messaging, and/or an alternate schedule. It is the responsibility of the student to monitor Canvas for each of their classes for course specific communication, as well as the USFSM website, their student email account, and MoBull messages for important general information. The USF hotline at 1 (800) 992-4231 is updated with pre-recorded information during an emergency. See the Campus Police Website for further information.
- **D. Disabilities Accommodation**: Students are responsible for registering with the Office of Students with Disabilities Services (SDS) in order to receive academic accommodations. Reasonable notice must be given to the SDS office (typically 5 working days) for accommodations to be arranged. It is the responsibility of the student to provide each instructor with a copy of the official Memo of Accommodation. Contact Information: Disability Coordinator, 941-359-4714, disabilityservices@sar.usf.edu, http://usfsm.edu/disability-services/
- **E. Fire Alarm Instructions**: At the beginning of each semester please note the emergency exit maps posted in each classroom. These signs are marked with the primary evacuation route (red) and secondary evacuation route (orange) in case the building needs to be evacuated. See Emergency Evacuation Procedures.
- **F. Religious Observances**: USFSM recognizes the right of students and faculty to observe major religious holidays. Students who anticipate the necessity of being absent from class for a major religious observance must provide notice of the date(s) to the instructor, in writing, by the second week of classes. Instructors canceling

class for a religious observance should have this stated in the syllabus with an appropriate alternative assignment.

G. Protection of Students Against Discrimination and Harassment:

- 1. **Sexual Misconduct/Sexual Harassment Reporting:** USFSM is committed to providing an environment free from sex discrimination, including sexual harassment and sexual violence (<u>USF System Policy 0-004</u>).
- 2. Other Types of Discrimination and Harassment: USFSM also is committed to providing an environment free from discrimination and harassment based on race, color, marital status, sex, religion, national origin, disability, age, genetic information, sexual orientation, gender identity and expression, or veteran status (USF System Policy 0-007).

The Counseling and Wellness Center is a **confidential** resource where you can talk about incidents of discrimination and harassment, including sexual harassment, gender-based crimes, sexual assault, stalking, and domestic/relationship violence. This confidential resource can help you without having to report your situation to either the Office of Student Rights and Responsibilities (OSSR) or the Office of Diversity, Inclusion, and Equal Opportunity (DIEO), unless you request that they make a report.

Please be aware that in compliance with Title IX and under the USF System Policy, educators **must** report incidents of discrimination and harassment, including sexual harassment, gender-based crimes, sexual assault, stalking, and domestic/relationship violence. If a student discloses any of these situations in class, in papers, or to a faculty member personally, he or she is required to report it to OSSR or DIEO for investigation. Students who are victims or who have knowledge of such discrimination or harassment are encouraged to report it to either OSSR or DIEO. The Deputy Coordinator for USFSM is Allison Dinsmore, Coordinator of Disability Services & Student Advocacy, 941-359-4714 or adinsmore1@sar.usf.edu.

Campus Resources:

Counseling Center and Wellness Center 941-487-4254 Victim Advocate (24/7) 941-504-8599

List of off-campus resources:

HOPE Family Services: 941-755-6805

Safe Place & Rape Crisis Center (SPARCC) – Sarasota: 941-365-1976

First Call for Help- Manatee: 941-708-6488

Sarasota & North Port 941-366-5025

Manatee Glens: 941-782-4800; 24-hr Hotline 941-708-6059

H. Web Portal Information: Every newly enrolled USF student receives an official USF e-mail account. Students receive official USF correspondence and Canvas course information via that address. The web portal is accessed at http://my.usf.edu.

PSY 3204 Schedule

		Topic	For <u>next</u> class
Week 1	16-May	Introduction to the course	Chapter 1
	18-May	Ch 1. Introduction to statistics	EC quiz; Chapter 2
Week 2	23-May	Ch 2. Frequency Distributions	HW 1; Chapters 3 and 4
	25-May	Ch 3-4. Central Tendency and Variability	HW 2; Study for Exam 1
Week 3	30-May	Memorial Day – no class	
	32-May	Exam 1	Chapter 5
Week 4	6-Jun	Ch 5. z-scores	HW 3; Chapter 6
	8-Jun	Ch 6. Probability	HW 4; Chapter 7
Week 5	13-Jun	Ch 7. Probabilities and Samples	HW 5; Chapter 8
	15-Jun	Ch 8. Introduction to Hypothesis Testing	HW 6; Study for Exam 2
Week 6	20-Jun	Exam 2	Chapter 9
	22-Jun	Ch 9. Introduction to the <i>t</i> statistic	Chapter 10
Week 7	27-Jun	Ch 10. Independent samples <i>t</i> test	HW 7; Chapter 11
	29-Jun	Ch 11. Related samples <i>t</i> test (July 2 nd last day to drop**)	HW 8; Study for Exam 3
Week 8	4-Jul	Independence Day (NO CLASS)	
	6-Jul	Exam 3	Chapter 13
Week 9	11-Jul	Ch 12. ANOVA	HW 9; Chapter 15
	13-Jul	Ch 14. Correlation	HW 10; Chapter 16
Week 10	18-Jul	Ch 15. Chi-square (online class only)	HW 11; Study for Final
	20-Jul	Final Exam	Have a great summer!

^{*} The syllabus – mainly the schedule – may change a bit as the course progresses, in which case, I will post any revisions on Canvas.

^{**} Last day to drop from a course with a "W"; no refund, no academic penalty.