

Course Syllabus



Course ACN6313::HCS6313::PSYC6313 sec 003
Course Title Research Methods II
Professor Dr. Nancy Juhn
Term Spring 2022
Meetings Wednesday 04:00 PM – 06:45 PM

Professor's Contact Information

Office Phone 972-883-4981 (voice messages only; I'll receive a voice-to-email)

Office Location MS Teams
Email Address nancy.juhn@utdallas.edu
Office Hours TBA

TA Information: Gayathri Maruthy (Gayathri.bm@utdallas.edu)
Office Hours and locations: TBA

Other Information Email is the fastest and best way to reach Dr. Juhn or Gayathri (TA). Please use your UTD email account. You must include your class name and the section number, i.e. PSYC/ACN/HCS 6313.003 in the subject title. Note that email responses will be provided Monday through Friday between 9:00AM-5:00PM.

Course Modality

| | |
|---------------------------|--|
| Instructional Mode | <ol style="list-style-type: none">Synchronous online learning at the day and time of the class from 1/18 until 2/4.We will meet in JO 3.209 classroom starting 2/8 until 5/4. |
| Course Platform | <p>Both of these platforms are critical for your success:</p> <p>eLearning –All course material and content will be uploaded onto our eLearning page. Practice question sets, quizzes, and exams will take place on eLearning. https://elearning.utdallas.edu/webapps/login/</p> <p>Microsoft Teams (MS Teams) – This is the platform we will use for class lectures. All virtual classes will be held via MS Teams. You must download MS Teams in order to attend class. https://www.utdallas.edu/oit/howto/microsoft-teams/</p> |

Course Expectations & Learning Guidelines

| | |
|---|---|
| Expectations and Class Participation | <p>It is our expectation that you will show up on time to class and stay the remainder of the class session. We also expect that you will come prepared each class. We welcome class participation, and you will have opportunities in class to ask questions.</p> <p>Regular class participation is expected regardless of course modality. Students who fail to participate in class regularly are inviting scholastic difficulty. This also includes engaging in group or other activities during class that solicit your feedback on homework assignments, readings, or materials covered in the lectures (and/or labs). Class participation is documented by faculty. Successful participation is defined as consistently adhering to university requirements, as presented in this syllabus. Failure to comply with these University requirements is a violation of the <u>Student Code of Conduct</u>.</p> |
|---|---|

COVID-19 Guidelines and Resources

Classroom Safety and COVID-19 To help preserve the University's in-person learning environment, UT Dallas recommends the following:

Adhere to the University's [CDC Updated Guidelines](#) issued on July 30, 2021. All Comets are strongly encouraged to wear face coverings indoors regardless of vaccination status.

Accommodations for Students Who Must Isolate or Quarantine Due to COVID-19

To keep the UT Dallas community as safe as possible, the University requires students who test positive for COVID-19 or who are close contacts as determined by the campus contact tracing program to isolate or quarantine as applicable. Faculty will be notified by the Dean of Students' Office if a student in their class has been required to isolate (positive case) or quarantine (exposed).

Verifying COVID-19 Isolations or Quarantines

Students need to self-report COVID-19 positive results or exposures via an [online form](#) so that university campus tracers can verify, record, and take necessary campus precautions. When faculty are notified by students rather than by the Dean of Students' Office that the students are isolating or quarantining, the faculty should remind students to self-report via the form; students should not attend class until cleared by campus tracers.

Proactive Community Testing remains an important part of the university's efforts to protect our community. Tests are fast and free. Please check the [Comets United](#) webpage for additional information.

[Student Safety](#) remains an important part of the UT Dallas' efforts to protect our community. All students will adhere to the Comet Commitment. Unvaccinated Comets will be expected to complete the mandatory [Required Daily Health Screening](#). Those students who do not comply will be referred to the Office of Community Standards and Conduct for disciplinary action under the [Student Code of Conduct – UTSP5003](#).

All students are encouraged to read the [Recommendations for Students Returning to Campus](#) issued on August 2, 2021.

Visit [Comets United webpage](#) to obtain the latest information on the University's guidance and resources for campus health and safety.

Student Resources

Students who have tested positive for COVID-19 or may have been exposed should not attend class in person and should instead follow required disclosure notifications as posted on the university's website (see "[Student Safety](#)" protocols).

COVID-19 Resources

[Comets United webpage](#): check frequently

[FAQ](#): check out the FAQs and reach out to your instructor or academic advisor if answers are not included

[Student Resources](#): a variety of resources are available to help students to obtain counseling, health care, and academic support.

Class Recordings

Students are expected to follow appropriate University policies and maintain the security of passwords used to access recorded lectures. Unless the Office of Student AccessAbility (OSA) has approved the student to record the instruction, students are expressly prohibited from recording any part of this course. Recordings may not be published, reproduced, or shared with those not in the class, or uploaded to other online environments except to implement an approved Office of Student AccessAbility (OSA) accommodation. Failure to comply with these University requirements is a violation of the [Student Code of Conduct](#).

The instructor may record meetings of this course. These recordings will be made available to all students registered for this class if the intent is to supplement the classroom experience. If the instructor or a UTD school/department/office plans any other uses for the recordings, consent of the students identifiable in the recordings is required prior to such use unless an exception is allowed by law.

Class Materials

The instructor may provide class materials that will be made available to all students registered for this class as they are intended to supplement the classroom experience. These materials may be downloaded during the course, however, these materials are for registered students' use only. Classroom materials may not be reproduced or shared with those not in class, or uploaded to other online environments except to implement an approved Office of Student AccessAbility accommodation. Failure to comply with these University requirements is a violation of the [Student Code of Conduct](#).

| | |
|--|--|
| Pre-requisites, Co-requisites, & other restrictions | ACN/HCS/PSYC 6312 Research Methods I |
| Course Description | The goal of this course is to develop students' ability to apply basic statistical methods to the design and analysis of psychology experiments. Subject areas include: simple regression, multiple regression, mediation and moderation analyses, hierarchical regression models, inferential statistics (e.g., hypothesis testing, sources of error), and analysis of variance designs (e.g., between subjects and repeated measures, factorial designs). |
| Learning Outcomes | <p>After completing the course, students should be able to:</p> <ol style="list-style-type: none"> 1. Describe how various research designs address different types of questions and hypotheses. 2. Articulate strengths and limitations of various research designs. 3. Identify the independent and dependent variables in an experimental description. 4. Understand and test for mathematical assumptions of linear models. 5. Identify and interpret moderator and mediator variables. 6. Distinguish between statistical significance and practical significance. 7. Distinguish among the kinds of experimental validity 8. Recognize and interpret an interaction between factors. 9. Analyze basic non-parametric tests. 10. Write experimental results in APA format and utilize SPSS software to create data file, compute statistics, and interpret outputs. |
| Required Texts & Materials | <ol style="list-style-type: none"> 1. Andy Field, Discovering Statistics Using IBM SPSS Statistics, North American Edition, 5th Edition, Sage Publications Inc. (www.sagepublishing.com) You may opt for either the paper version or the eTextbook. <i>We will follow the content and page numbers based on the North American Edition, 5th edition. If a student chooses to buy an earlier version, then that student is responsible for the making necessary adjustments (e.g., determining corresponding page numbers).</i> 2. IBM SPSS Premium Grad Pack. 3. Reliable internet connection and a computer with Microsoft Office Suite. As a UTD student, you can download Microsoft Office suites (free) from UTD Office of Information Technology (OIT) – https://www.utdallas.edu/oit/o365/ Please note that digital tablet (i.e., iPad) or cell phone device will not be sufficient to carry out the course work. If you do not have a computer, please contact the OIT helpdesk -- https://www.utdallas.edu/oit/helpdesk/ |

| | |
|---|--|
| Grading (credit) Criteria | <p style="text-align: center;"><u>DETERMINATION OF YOUR GRADE</u></p> <p>Exam: 60% (2 exams – 30% each) Literature Review: 20% (2 Reviews- 10% each) Literature Quiz: 10% Homework: 10%</p> <p>Assignment of letter grades is as follows: Points earned Percent Letter grade 93-100% A 90-92% A- 88-89% B+ 83-87% B 80-82% B- 75-79% C+ 65-74% C Below 65 % F</p> |
| Make-up Exams | <p>Make-up exams will be given only if: (a) you were seriously ill and have verifiable documentation from a physician, or (b) you made arrangements prior to the exam to attend an urgent family affair (e.g., funeral).</p> |
| Extra Credit | <p>N/A</p> <p>Please note: We want to help you be successful in this course in every way we can BEFORE the end of the semester. Beyond the exams and assignments listed here, we simply cannot give you extra points or additional assignments. We can help you if you ask me “what can I do to improve my grade?” at the beginning of the semester, not at the end.</p> |
| Late Work | <p>N/A</p> <p>No late submission is allowed for the exams, homework and assignments.</p> |
| Homework Assignments | <p>Homework will be posted on eLearning. The homework grade will be based on <u>completion</u>. The homework must be completed without any missing answers. The homework solutions will not be provided; we will go over them in class. Please refer to the detailed instructions in eLearning Homework folder.</p> |
| Class Attendance | <p>I encourage students to attend every class.</p> |
| Classroom Citizenship | <p>We expect that you will be respectful of your fellow students, the instructor, and the teaching assistant. Be aware of strong language, all caps, and be cautious about using sarcasm and humor. While we encourage questions using the instant chat option during lectures, we expect that you will use this option in an appropriate manner.</p> |
| Academic Support Resources | <p><i>The information contained in the following link lists the University’s academic support resources for all students.</i></p> <p>Please go to http://go.utdallas.edu/academic-support-resources.</p> |
| UT Dallas Syllabus Policies and Procedures | <p><i>The information contained in the following link constitutes the University’s policies and procedures segment of the course syllabus.</i></p> <p>Please go to http://go.utdallas.edu/syllabus-policies for these policies.</p> |

Please note that the contents and timelines are subject to change at the discretion of the professor.

| DATE | Course Schedule |
|---|---|
| 1/19 | Introduction Review of Research Methods I |
| 1/26 | Multiple Regression Assumptions and Modeling Understanding intercept and gradient shifts: categorical and continuous predictors Reviewing Academic Journal Articles |
| 2/2 | Multiple Regression Assumptions, Modeling and Interpretations |
| Meet in classroom at JO 3.209 (2/9-5/4) 2/9 | Mediation and Moderation Analyses: moderator and mediator variables Hierarchical Regression Models Literature Review Assignment #1 Due at 04:00 PM |
| 2/16 | Review of Factorial ANOVA Analysis of Covariance: ANCOVA |
| 2/23 | Analysis of Covariance: ANCOVA Review |
| 3/2 | EXAM 1 (No class on exam day) Exam will be available on eLearning from 3/1 at 04:00PM until 3/2 at 06:45PM. It is due at 3/2 at 06:45PM. |
| 3/9 | ANOVA Factorial Design contrast and post hoc comparison |
| 3/16 | Spring Break |
| 3/23 | ANOVA: Repeated Measures and Interactions ANOVA: Mixed Design |
| 3/30 | ANOVA: Mixed Design Literature Review Assignment #2 Due at 04:00 PM |
| 4/6 | Non-Parametric Test |
| 4/13 | Introduction to Path Analysis and Power Analysis |
| 4/20 | Measuring and Manipulating Variables: Reliability and Validity The Best Measure for Your Study: Scales of Measurement Literature Review QUIZ due at 04:00 PM. Quiz will be available on eLearning from 4/19 at 04:00PM until 4/20 at 04:00PM. It is due at 4/20 at 04:00PM. |
| 4/27 | Review |
| 5/4 | EXAM 2 (No class on exam day) Exam will be available on eLearning from 5/3 at 04:00PM until 5/4 at 06:45PM. It is due at 5/4 at 06:45PM. |