COURSE DESCRIPTION AND LEARNING OUTCOMES

Welcome to Research Design & Statistics II! The purpose of this course is to provide an introduction to methods for designing psychological studies and the statistics used to analyze and interpret the data, with a focus on experimental methods. This course covers various topics including (but not necessarily limited to): hypothesis testing, the experimental research strategy, within- and between-subjects designs, the t statistic, and analysis of variance (ANOVA).

Student Learning Outcomes—upon completion of the course students should be able to:

- Demonstrate a basic understanding of concepts related to hypothesis testing and the experimental research strategy as evidenced in knowledge check quizzes and/or exams.
- Demonstrate a basic understanding of concepts related to inferential statistics, t tests, and ANOVA as evidenced in knowledge check quizzes and/or exams.
- Conduct important components of the research process (e.g., literature search, data analysis, manuscript preparation) as evidenced in lab activities and the group project.
- Calculate statistics / analyze data (e.g., t tests, ANOVA, make conclusion following hypothesis test) as evidenced in lab activities and the group project.
- Convey the results of experimental research in written form as evidenced in the preparation of an APA-style research paper completed as part of the group project.

COURSE TEXTS, MATERIALS, AND TECHNOLOGY

- A calculator that does basic arithmetic functions, squares, and square roots.
- A flash/thumb drive or some equivalent data storage device (optional).
- Students will use Microsoft Word, Microsoft Excel, and SPSS statistics software; full technical requirements for students can be found here: https://kb.siue.edu/104656.
- All other course materials will be made available on Blackboard (see below).
SPECIAL NOTES / WARNINGS

- Students in the class must be a psychology major.
- This course has a prerequisite of PSY 111, with a minimum grade of C.
- This course has a prerequisite of PSY 220, with a minimum grade of C.
- If you earn a course grade of D or F in this course, contact your academic advisor immediately to determine whether there is any possibility of getting enrolled in a section of this course next semester.
- This course has a “2 attempt” rule—you may only attempt the course (including W, WF, WP) two times. After two unsuccessful attempts, you will be dropped from the major.

COURSE STRUCTURE AND EVALUATION

Class time will consist of lectures, lab sessions, activities, and assessments that will help you develop a better understanding of research methods and statistics. It is important that you complete the required readings before coming to class. Unless otherwise noted, all assignments are due on Sundays at 11:59pm during the week indicated in this syllabus.¹ No late assignments will be accepted. Unless otherwise noted, all assignments, exams, and coursework will be submitted electronically via Blackboard. Your grade in this course will be based on the following:

- **Syllabus Check & Electronic Device Agreement (2 points combined).** During the first week of this course, students are required to complete a syllabus check assignment and sign an electronic device agreement. Failure to complete these two items will result in the student being dropped from the class.

- **Weekly Knowledge Checks (5 points each, 30 points combined).** There are six (6) knowledge check quizzes to be completed throughout this course. You are allowed to re-take the quizzes as many times as you want until the due date. The knowledge check quizzes are available via Blackboard.

- **Weekly Lab Activity (5 points each, 30 points combined).** There are six (6) lab activities to be completed throughout this course. Each activity will be completed during/after the associated lab session. Submission of the activity outcome/product is done via Blackboard. See ‘Lab Meeting Overview’ below for more information.

- **Exams (100 points each, 200 points combined).** There will be two (2) exams to be completed throughout this course. The exams consist of multiple-choice and calculation questions, and cover material only since the prior exam (i.e., non-cumulative). The exams are administered via Blackboard and are completed in-person during the class/lab session indicated in this syllabus.

- **Group Project (120 points).** Students will work in teams of approximately 4-5 individuals to analyze data and write an APA style paper focusing on the effects of an intervention using an experimental design. The project will include several phases: (1) researching and defining the variables; (2) writing a draft of the Introduction section; (3) writing a draft of the Method section; (4) reporting descriptive statistics and correlations

¹ One exception to this is Group Project Submissions, which are due on Mondays by 11:59pm (see Course Schedule below).
in the Results section; (5) reporting analysis of intervention effectiveness in the Results section; and (6) submitting the final paper, including a discussion section. Following each project phase, students are strongly encouraged to think ahead about upcoming phases to keep up with the fast pace of the project. During the last week of the course, each group will give a presentation of their study. Groups will only submit one copy of all required submissions and all members will receive the same grade. However, all group members will evaluate each other, and every member will receive an individual group member evaluation grade. See ‘Group Project Overview’ below for more information.

- **Professionalism (18 points).** Students are expected to behave in a professional manner. This includes, among other things, attending class and lab sessions, coming to class on time, attentively listening to lectures, being polite in communications with others, and being respectful of others’ comments and contributions. This also includes not being distracted, operating a cell phone, or using your computer for non-class related purposes (for example, surfing the Web, checking email, using Facebook, etc.). Excessive absences (4+) will impact the professionalism grade.

- **Extra Credit (5 points):** An extra credit assignment will be made available to students and will be due by the last day of class. The extra credit assignment will require you to summarize in writing a research article related to psychology. Depending on the quality of the summary, students can receive additional points/credit toward their final grade.

### SUMMARY OF POINTS

<table>
<thead>
<tr>
<th>Graded Item</th>
<th>Points</th>
<th>Percent</th>
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<tbody>
<tr>
<td>Syllabus Check &amp; Device Agreement</td>
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<tr>
<td>Weekly Knowledge Checks x6</td>
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</tr>
<tr>
<td>Weekly Lab Activities x6</td>
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<td>Exams x2</td>
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<tr>
<td>Group Project Items</td>
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<td>Professionalism</td>
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<td>Extra Credit</td>
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### FINAL GRADES

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<td>C</td>
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<tr>
<td>60-69.99%</td>
<td>D</td>
</tr>
<tr>
<td>0-59.99%</td>
<td>F</td>
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CLASS POLICIES AND OTHER INFORMATION

Blackboard/Paperless Class

All course announcements, assignments, and other postings will be done through Blackboard. To the extent possible, all documents will be provided electronically, as opposed to being printed out. Likewise, all assignments should be submitted electronically, as opposed to printed out. Blackboard will also serve as your primary means of communicating with your fellow students and me. It is your responsibility to ensure that the e-mail account that you have listed with the University is a valid and working account so that we can communicate effectively. Otherwise, you will be responsible for the lack of communication. Additional information and resources can be found at https://www.siue.edu/its/bb/students/tutorials.shtml.

Respect for Intellectual Property and NO Recording

Faculty recordings of lectures and/or other course materials are meant to facilitate student learning and to help facilitate a student catching up who has missed class due to illness or quarantine. As such, students are reminded that the recording, as well as replicating or sharing of any course content and/or course materials without the express permission of the instructor of record, is not permitted, and may be considered a violation of the University’s Student Conduct Code (3C1), linked here: https://www.siue.edu/policies/3c1.shtml.

Changes to Syllabus and Class

The instructor reserves the right to make changes to this syllabus as currently presented, in order to accommodate the learning pace of students, and if such changes help achieve the learning objectives of this course. This includes the possibility of switching to online learning if circumstances make this necessary or prudent.

Emergency Situations

Under extreme circumstances, students will be allowed to submit assignments late without a penalty or reschedule an exam date. Such circumstances must be unforeseen, unavoidable, and of a serious nature (for example, car accidents, serious medical emergencies, deaths in the family, documented COVID diagnosis). In other words, printer jams, planned appointments, and similar excuses do not count. In all cases, written and verifiable documentation must be presented. I reserve final judgment with respect to whether a situation constitutes an extreme circumstance or not.

Academic Integrity/Plagiarism/Misconduct

This course adheres to the SIUE’s policies and procedures related to academic misconduct. Plagiarism and cheating will not be tolerated and may lead to failure on an assignment in the class, or dismissal from the University, per the SIUE academic dishonesty policy (http://www.siue.edu/policies/1i6.shtml). Students are responsible for complying with University policies about academic honesty as stated in the University’s Student Academic Conduct Code (http://www.siue.edu/policies/3c2.shtml). Students are responsible for being familiar with these policies and procedures. This course may also utilize ‘Turn It In’ plagiarism detection software (https://www.siue.edu/its/turnitin/). The use of text generated by artificial intelligence chatbots, software, or algorithms (e.g., ChatGBT) in assignments or presentations is considered academic misconduct.
Student Support and Accommodations

Students needing accommodations because of medical diagnosis, major life impairment, or other life circumstances will need to register with Accessible Campus Community & Equitable Student Support (ACCESS) and complete an intake process before accommodations will be given. Students who believe they have a diagnosis, but do not have documentation, should contact ACCESS for assistance and/or appropriate referral. The ACCESS office is located in the Student Success Center, Room 1203. You can also reach the office by emailing to myaccess@siue.edu or by calling 618-650-3726. Students who qualify for accommodations should inform the instructor as soon as possible to arrange for their needs and obtain support for the class. In addition, students have access to counseling services on campus (https://www.siue.edu/counseling/). You can make an appointment by calling 618-650-2842.

Diversity and Inclusion

SIUE is committed to respecting everyone’s dignity at all times. In order to learn, exchange ideas, and support one another, our virtual and physical classrooms must be places where students and teachers feel safe and supported. The Hub (https://www.siue.edu/csd) is an excellent resource for students for support and community. Any person who believes they have experienced or witnessed discrimination or harassment can contact Ms. Jamie Ball, Director in the Office of Equal Opportunity, Access and Title IX Coordination at (618) 650-2333 or jball@siue.edu.

COVID-19 Pandemic Policies Related to Classroom Instruction (Spring 2023)

Health and Safety

The measures outlined below are required and any student who does not comply may be in violation of the COVID-19 People-Focused Health and Safety Policy, as well as the University’s Student Code of Conduct.

The full text of the COVID-19 People-Focused Health and Safety Policy can be found here: https://www.siue.edu/policies/Covid.shtml

Classrooms, Labs, Studios, and Other Academic Spaces


Individual faculty of record may determine that masking will be required in their classrooms and are asked to communicate accordingly with students. Face masks may be required in other campus sites following guidance from governing regulatory agencies.

- Students who forget to wear a face covering when masking is required will be reminded of their obligation to comply with SIUE’s COVID-19 People-Focused Health and Safety Policy and temporarily asked to leave the class until they are able to conform to the policy. Students who forget or lose their face coverings when masking is required may be able to obtain replacements from a friend, a faculty member, or a nearby departmental office. Face coverings are also available for purchase in the Cougar Store (MUC).
Students who refuse to wear a face covering when masking is required will be asked to leave the classroom and referred to the Dean of Students for non-compliance with community health and safety protocols. Repeated non-compliance may result in disciplinary actions, including the student being administratively dropped from an on-ground/face-to-face course or courses without refund if no alternative course format is available.

If a student has a documented health condition which makes wearing a face covering medically intolerable, that student should contact ACCESS to explore options with the understanding that ACCESS will not grant accommodations which excuse the need for a face covering while on campus or in the classroom. ACCESS will work with qualifying individuals to find reasonable alternatives, whenever such solutions are available. Please call or contact the ACCESS Office via email to schedule an online appointment to discuss potential alternatives. ACCESS office (Student Success Center, Room 1203, 618-650-3726, and myaccess@siue.edu).

**General Health Measures**

Students and employees are expected to review the siue.edu/coronavirus website (https://www.siue.edu/about/announcements/coronavirus/) to better understand prevention strategies and safety expectations.

- Students and employees are expected to maintain healthy hygiene practices.
- Students and employees are expected to follow COVID-related guidelines and directions.
- Students and employees are expected to conduct a daily health self-assessment and isolate themselves if COVID-related symptoms are present. COVID-related symptoms include:
  - Fever (100.4 degrees or above) or chills
  - Cough
  - Shortness of breath or difficulty breathing
  - Fatigue
  - Muscle or body aches
  - Headache
  - New loss of taste or smell
  - Sore throat
  - Congestion or runny nose
  - Nausea or vomiting
  - Diarrhea

**Potential for Changes in Course Schedule or Modality**

As the COVID-19 pandemic continues, there remains a possibility that planned classroom activities will need to be adjusted. Depending on circumstances and following state-issued recommendations, potential changes include alterations to distancing requirements, course modality (e.g., transition from face-to-face to online, hybrid, or hy-flex, mask wearing, in-course activities, etc). These changes would be implemented to ensure the successful completion of the course while preserving health and safety. In these cases, students may be provided with an addendum to the class syllabus that will supersede the original version. If the course schedule or modifications significantly alter expectations, a new syllabus will be issued.
<table>
<thead>
<tr>
<th>DATE</th>
<th>TOPIC</th>
<th>READINGS</th>
<th>ASSIGNMENTS</th>
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<tbody>
<tr>
<td>Week 01, 3/13</td>
<td>Introduction to the Class Group Project Overview</td>
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<td>Syllabus Check</td>
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<td>Device Agreement</td>
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<tr>
<td>Week 01, 3/15</td>
<td>Distribution of Sample Means Project: Discussion if Needed</td>
<td>— Ch. 7</td>
<td>Wk. 1 Knowledge Check</td>
</tr>
<tr>
<td>Week 01, 3/17 (LAB)</td>
<td>Activity / Group Project Work SPSS / Practice Calculations</td>
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<td>Wk. 1 Lab Activity Project Phase 1 (due Monday)</td>
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<tr>
<td>Week 02, 3/20</td>
<td>Hypothesis Testing Project: Discussion if Needed</td>
<td>— Ch. 8</td>
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<tr>
<td>Week 02, 3/22</td>
<td>Introduction to the t Statistic Project: Discussion if Needed</td>
<td>— Ch. 9</td>
<td>Wk. 2 Knowledge Check</td>
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<tr>
<td>Week 02, 3/24 (LAB)</td>
<td>Activity / Group Project Work SPSS / Practice Calculations</td>
<td>— —</td>
<td>Wk. 2 Lab Activity Project Phase 2 (due Monday)</td>
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<tr>
<td>Week 03, 3/27</td>
<td>Experimental Research Strategy Project: Discussion if Needed</td>
<td>Ch. 7 Ch. 8</td>
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<tr>
<td>Week 03, 3/29</td>
<td>t Test for Independent Samples Project: Discussion if Needed</td>
<td>— Ch. 10</td>
<td>Wk. 3 Knowledge Check</td>
</tr>
<tr>
<td>Week 03, 3/31 (LAB)</td>
<td>Activity / Group Project Work SPSS / Practice Calculations</td>
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<td>Wk. 3 Lab Activity Project Phase 3 (due Monday)</td>
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<tr>
<td>Week 04, 4/3</td>
<td>Within-Subjects Design Project: Discussion if Needed</td>
<td>Ch. 9 Ch. 11</td>
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<tr>
<td>Week 04, 4/5</td>
<td>t Test for Dependent Samples Project: Discussion if Needed</td>
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<tr>
<td>Week 04, 4/7 (LAB)</td>
<td>Exam 1 Methods Ch. 7-9, Stats Ch. 7-11</td>
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<td>Week 05, 4/10</td>
<td>Analysis of Variance (ANOVA) Project: Discussion if Needed</td>
<td>— Ch. 12</td>
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<tr>
<td>Week 05, 4/12</td>
<td>Analysis of Variance (ANOVA) Project: Discussion if Needed</td>
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<td>Wk. 5 Knowledge Check</td>
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<td>Week 05, 4/14 (LAB)</td>
<td>Activity / Group Project Work SPSS / Practice Calculations</td>
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<td>Wk. 5 Lab Activity Project Phase 4 (due Monday)</td>
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<td>Week 06, 4/17</td>
<td>Two-Factor ANOVA Project: Discussion if Needed</td>
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<td>Week 06, 4/19</td>
<td>Two-Factor ANOVA Project: Discussion if Needed</td>
<td>— Ch. 13</td>
<td>Wk. 6 Knowledge Check</td>
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<td>Week 06, 4/21 (LAB)</td>
<td>Activity / Group Project Work SPSS / Practice Calculations</td>
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<td>Wk. 6 Lab Activity Project Phase 5 (due Monday)</td>
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<td>Week 07, 4/24</td>
<td>Quasi-Experimental Strategies Project: Discussion if Needed</td>
<td>Ch. 10 —</td>
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<td>Week 07, 4/26</td>
<td>Single-Case Strategies Project: Discussion if Needed</td>
<td>Ch. 14 —</td>
<td>Wk. 7 Knowledge Check</td>
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<td>Week 07, 4/28 (LAB)</td>
<td>Activity / Group Project Work SPSS / Practice Calculations</td>
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<td>Wk. 7 Lab Activity Project Phase 6 (due Monday)</td>
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<td>Week 08, 5/1</td>
<td>Project Presentations Team Member &amp; TA Evaluations</td>
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<tr>
<td>Week 08, 5/3</td>
<td>Project Presentations Group Catch-Up / Review</td>
<td>— —</td>
<td>Extra Credit due <em>today</em> by 11:59pm</td>
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<tr>
<td>Week 08, 5/5 (LAB)</td>
<td>Exam 2 Methods Ch. 10/11/14 &amp; Stats 12/13</td>
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LAB MEETING OVERVIEW

There will be six lab meetings throughout the eight weeks of this course. The meetings will always be on Fridays (see Course Schedule for specific dates). Also note that there are two different sections for the lab meetings, which will hold meetings at different times. **Students must make sure they are aware of which section they are enrolled in so that they show up to the correct lab meeting at the correct time** (see first page of Syllabus for lab section meeting times).

**Lab Week 1—Main Objectives/Activities**
- Groups to open their dataset and examine descriptive statistics
- Review of methods for finding research articles
- Calculation practice
- *Lab Activity Submission* (due Sunday, 11:59pm)
- *Group Project Work* (due Monday, 11:59pm)

**Lab Week 2—Main Objectives/Activities**
- SPSS demonstration
- Calculation practice
- Discussion of group project
- *Lab Activity Submission* (due Sunday, 11:59pm)
- *Group Project Work* (due Monday, 11:59pm)

**Lab Week 3—Main Objectives/Activities**
- SPSS demonstration
- Calculation practice
- Discussion of group project
- *Lab Activity Submission* (due Sunday, 11:59pm)
- *Group Project Work* (due Monday, 11:59pm)

**Lab Week 5—Main Objectives/Activities**
- SPSS demonstration
- Calculation practice
- Discussion of group project
- *Lab Activity Submission* (due Sunday, 11:59pm)
- *Group Project Work* (due Monday, 11:59pm)

**Lab Week 6—Main Objectives/Activities**
- SPSS demonstration
- Calculation practice
- Discussion of group project
- *Lab Activity Submission* (due Sunday, 11:59pm)
- *Group Project Work* (due Monday, 11:59pm)

**Lab Week 7—Main Objectives/Activities**
- SPSS demonstration
- Calculation practice
- Discussion of group project
- *Lab Activity Submission* (due Sunday, 11:59pm)
- *Group Project Work* (due Monday, 11:59pm)
GROUP PROJECT OVERVIEW

Phase 1: Researching and defining the variables [2 points]. Groups will find and examine research articles that will help them to (A) define the variables they are examining and (B) develop arguments for how and why the variables might be related to one another. Due Monday by 11:59pm following Week 1.

Phase 2: Writing a draft of the Introduction section [3 points]. Groups will write a draft of their Introduction section including (A) an overview of the purpose of the paper, (B) an introduction to and explanation/definition of the intervention and variables examined, and (C) an argument for how and why the intervention is expected to impact the outcome variables, ending with three formally stated hypotheses. Due Monday by 11:59pm following Week 2.

Phase 3: Writing a draft of the Method section [3 points]. Groups will write a draft of their Method section including (A) a description of participants, (B) an articulation of the procedure that includes a description of the intervention, and (C) an explanation of the measures. Due Monday by 11:59pm following Week 3.

Phase 4: Reporting descriptive statistics/correlations in the Results section [3 points]. Groups will write a draft of the subsection within the Results section that reports descriptive statistics and correlations for the variables being examined including (A) inclusion of means, standard deviations, and correlations for all variables in a table, (B) interpretation of the descriptive statistics—Ms and SDs—in-text, and (C) interpretation of the correlation results in-text. Due Monday by 11:59pm following Week 5.

Phase 5: Analysis of intervention effectiveness in the Results section [3 points]. Groups will write a draft of the subsection within the Results section that reports the analysis of intervention effectiveness based on three t-tests. This component should include (A) a table summarizing the results, (B) a written description of the results in-text, and (C) a formal statement of whether each of the three hypotheses were supported or not. Due Monday by 11:59pm following Week 6.

Phase 6: The final paper [85 points]. Groups will submit the final draft of their paper with a newly added Discussion section that (A) discusses implications of the findings, (B) notes at least one strength and one limitation of the research design, and (C) mentions at least two future directions. Due Monday by 11:59pm following Week 7.

Group presentation [15 points]. During the last week of the course, each group will give a presentation of their study.

Group member evaluation [6 points]. During the last week of the course, each group member will complete an evaluation form for all their teammates.
TIPS FOR SUCCEEDING IN THIS COURSE

1) **Read.** Read each chapter before class. Although you might not understand the material the first time, it will be helpful to have some exposure to it before we discuss it in class.

2) **Attend.** Students that attend class do MUCH better than those that do not. Learning about topics in class helps reinforce the information.

3) **Notes.** Take notes during class lectures. Just reading the text or passively listening to lectures is not as useful as active note-taking.

4) **Ask.** Don’t be afraid to ask questions if you don’t understand something. If you do not understand the material, it’s likely that someone else doesn’t either.
APPLY TO ONE OF OUR PSYCHOLOGY GRADUATE PROGRAMS!

Applications are due January 15th

- The **Clinical Child and School Psychology** graduate program has two tracks:
  - **Clinical Child Psychology Track.** Students in this track receive a Master’s degree in Clinical Child and School Psychology. About half of these students choose to then apply to a Doctoral program, and the other half choose to find a job right away. Students are prepared to work with families in private practice, hospitals, or community organizations. Our students have a very high success rate of getting into doctoral programs and finding jobs.
  - **School Psychology Track.** Students in this track receive a Master’s degree in Clinical Child and School Psychology, and then they typically stay at SIUE to receive a Specialist Degree in School Psychology. These students have a very high success rate of finding employment as school psychologists. In fact, there is a national shortage of school psychologists. Some students later choose to also pursue a Doctoral degree.
  - See the VIDEO: [https://www.youtube.com/watch?v=RQyRMRTYEDQ](https://www.youtube.com/watch?v=RQyRMRTYEDQ)

- The **Clinical Psychology** master’s program “is one of the strongest clinical training programs in the St. Louis region. It prepares students for careers in mental health organizations or further graduate education in a clinical PsyD or PhD program, a counseling PhD program, or related doctoral study. Many graduates obtain positions in community mental health centers, state hospitals, research institutions, private hospitals, and other agencies that provide psychological services.”
  - See the VIDEO: [https://www.youtube.com/watch?v=mQ3n6O7xaIE](https://www.youtube.com/watch?v=mQ3n6O7xaIE)

- The **Industrial/Organizational Psychology** master's program “offers a rare blend of the scientist-practitioner model, requiring students to complete both a research-based thesis and required field hours of practicum…Research experience is directed at conceptualizing and solving applied organizational problems. Required practica, which are available throughout the St. Louis area, are oriented toward giving students applied, realistic skills and experiences to develop viable and effective performance in an organizational context.”
  - See the VIDEO: [https://www.youtube.com/watch?v=j5NfzF-b3K4](https://www.youtube.com/watch?v=j5NfzF-b3K4)

You can learn more about all of these programs here:
[https://www.siue.edu/education/psychology/graduate/](https://www.siue.edu/education/psychology/graduate/)
By providing your name, signature, and date below, you certify that you have read and understand all policies and information in this syllabus. If you have questions, please contact the instructor immediately.

Print name: _____________________

Signature: _____________________

Date: _____________________