Attention!

This is a representative syllabus.

The syllabus for the course when you enroll may be different.

Use the syllabus provided by your instructor for the most up-to-date information. Please refer to your instructor for more information for the specific requirements for a given semester.

Feel free to contact the Psychology Advising Office for any questions regarding psychology courses either by email (psychadvising@osu.edu) or phone (614.292.5750).

Thank you!
In-class presentation: The presentations will occur on the last week of the course, with the length of the talks determined by the number of teams. The presentations should succinctly summarize the background, importance, scope, and discoveries of the project. There are no rules regulating which team member(s) should complete the presentation, although all should contribute to the project in some fashion.

Course grades will be determined as follows:
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<tr>
<th>Grade Range</th>
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<tbody>
<tr>
<td>93-100%</td>
<td>A</td>
<td>73-76.99%</td>
<td>C</td>
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<tr>
<td>90-92.99%</td>
<td>A-</td>
<td>70-72.99%</td>
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<tr>
<td>87-89.99%</td>
<td>B+</td>
<td>67-69.99%</td>
<td>D+</td>
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<tr>
<td>83-86.99%</td>
<td>B</td>
<td>63-66.99%</td>
<td>D</td>
</tr>
<tr>
<td>80-82.99%</td>
<td>B-</td>
<td>60-62.99%</td>
<td>D-</td>
</tr>
<tr>
<td>77-79.99%</td>
<td>C+</td>
<td>&lt;59.99%</td>
<td>E</td>
</tr>
</tbody>
</table>

**Class attendance policy:**
Attendance is not mandatory. HOWEVER, people who come to class do better. This is a graduate level course, and it will be both time consuming and difficult. The lectures are an integral component of the learning process and will help you greatly on the homeworks, exams, and generally understanding the material. That said, we are all (busy) adults and if you need to miss a class, I understand.

**Sexual misconduct policy:**
Title IX makes it clear that violence and harassment based on sex and gender are Civil Rights offenses subject to the same kinds of accountability and the same kinds of support applied to offenses against other protected categories (e.g., race). If you or someone you know has been sexually harassed or assaulted, you may find the appropriate resources at http://titleix.osu.edu or by contacting the Ohio State Title IX Coordinator, Kellie Brennan, at titleix@osu.edu

**Academic Integrity:**
**CHEATING AND PLAGIARISM WILL NOT BE TOLERATED AND WILL BE REPORTED TO THE COMMITTEE ON ACADEMIC MISCONDUCT. IGNORANCE IS NOT AN EXCUSE!**

It is the responsibility of the Committee on Academic Misconduct to investigate or establish procedures for the investigation of all reported cases of student academic misconduct. The term "academic misconduct" includes all forms of student academic misconduct wherever committed; illustrated by, but not limited to, cases of plagiarism and dishonest practices in connection with examinations. Instructors shall report all instances of alleged academic misconduct to the committee (Faculty Rule 3335-5-487). For additional information, see the Code of Student Conduct at http://studentconduct.osu.edu

Please be aware that every assignment you turn in on Carmen will be compared via advanced software to a vast database of past assignments and those of your current peers. If you plagiarize, the detection software will alert me! See example from Class 1 lecture slides.

**Missed Classes:**
If you miss a class, please contact fellow students for relevant notes and handouts. The instructor or course assistants are available to meet with you after you have reviewed the notes and readings to answer additional questions. It will help to get the contact info of
some fellow students.

**Disability Services:**
The University strives to make all learning experiences as accessible as possible. If you anticipate or experience academic barriers based on your disability (including mental health, chronic or temporary medical conditions), please let me know immediately so that we can privately discuss options. To establish reasonable accommodations, I may request that you register with Student Life Disability Services. After registration, make arrangements with me as soon as possible to discuss your accommodations so that they may be implemented in a timely fashion. **SLDS contact information:** slds@osu.edu; 614-292-3307; slds.osu.edu; 098 Baker Hall, 113 W. 12th Avenue.

**Cell Phones and Electronic Devices in Class:**
An increasing amount of research has pointed to negative cognitive effects of excessive electronic device use, something that will likely come up in class. Many of us find it hard to resist texting or even surfing the web during class. And there is evidence that it dramatically worsens performance for you and your neighbors (see lecture slides from Class 1).

With all of this in mind, I have established the following policies:
1. If you bring a laptop to class, it can be used only to take notes. Do not use it for web surfing or engaging in social media. Students found to be surfing the web or otherwise using their computers in a manner that is distracting to their classmates will be asked to close their laptops. If a student continues this inappropriate laptop use, he/she will be asked to leave the classroom.
2. If students need to text or make a phone call, please excuse yourself from the classroom.

**Class Schedule (subject to change):**

**Week 1:**
Tuesday, 8/24: First day of class. Welcome/introduction/syllabus
Thursday, 8/26: Introduction to EEG
*Chapters 1-3*

**Week 2:**
Tuesday, 8/31: Introduction to Matlab
Thursday, 9/2: Introduction to Matlab (cont.)
*Chapter 4-5*

**Week 3:**
Tuesday, 9/7: Running an EEG Experiment
Thursday, 9/9: Physiological Basis of EEG
*Chapters 6-7*

**Week 4:**
Tuesday, 9/14: Components of ERPs
Thursday, 9/16: Experimental Design Principles
*Chapters 8-9*

**Week 5:**
Tuesday, 9/21: Preprocessing
Thursday, 9/23: Preprocessing (cont.)
*Chapters 10-11*

**Week 6:**
Tuesday, 9/28: Convolution
Thursday, 9/30: Fourier Transformation
*Chapters 12-13*

**Week 7:**
Tuesday, 10/5: Wavelets
Thursday, 10/7: Complex Wavelets
*Chapter 14*

**Week 8:**
Tuesday, 10/12: Hilbert Transform and Filter-Hilbert Method
Thursday, 10/14: NO CLASS: FALL BREAK
*Chapter 14*

**Week 9:**
Tuesday, 10/19: Short-time FFT and Tapers
Thursday, 10/21: Time-frequency Power and Baseline Normalization
*Chapters 15, 16, 18*

**Week 10:**
Tuesday, 10/26: Phase Clustering
Thursday, 10/28: Phase Clustering (cont.)
*Chapters 19-21*

**Week 11:**
Tuesday, 11/2: Connectivity
Thursday, 11/4: Connectivity (cont.)
*Chapters 22-24*

**Week 12:**
Tuesday, 11/9: Surface Laplacian
Thursday, 11/11: NO CLASS: VETERAN’S DAY
*Chapters 25-27*

**Week 13:**
Tuesday, 11/16: Generalized Eigenvalue Decomposition
Thursday, 11/18: Statistical Analyses  
*Chapters 28-31*

**Week 14:**
Tuesday, 11/23: Statistical Analyses (cont.)
Thursday, 11/25: NO CLASS: THANKSGIVING BREAK  
*Chapters 32-35*

CLASS MOVES TO ONLINE FORMAT. NO IN-PERSON ATTENDANCE.

**Week 15:**
Tuesday, 11/30: STUDY DAY: Work on class presentations. 
Thursday, 12/2: STUDY DAY: Work on class presentations.

**Week 16:**
Tuesday, 12/7: Term Presentations