**Motor Learning & Performance Lab (KINE 3651) Syllabus**

**Lab Instructor:** Juliana Otoni Parma

**Email:** jzo0034@auburn.edu

**Office Hours:** By Appointment (Tuesday 10:00 a.m. or Thursday 2 p.m.)

**Office Location:** KINE 140

**Lab Time and Location:**

This lab will be conducted asynchronously online. We will have six modules that will be posted throughout the Spring term (as indicated below under Lab Schedule).

**Lab Description:**

The goal of this lab is to give you first-hand experience with experimental methods and data collection/analysis tools used to study motor learning and performance.

**Lab Assignments:**

Fifty percent of your grade in the lab is based on the completion of six lab assignments. These assignments are worksheets that are completed in each lab. The content of the individual lab assignments will vary depending on the topic being covered in the lab. During the lab, please note the following policy: the material and experiences in this class are important and the assignments shall be based on the content taught in the current and previous modules. See the calendar below for a detailed schedule of the lab topics, availability, and due dates.

**NOTE:** it is vital to keep up with the information throughout the semester. **There will be no make-ups** without a valid university approved excuse as outlined in the Student Policy [eHandbook](http://www.auburn.edu/studentpolicies). The due date and time for all assignments will be clearly listed on Canvas. **It is the students’ responsibility to adhere to these requirements!**

**Lab Schedule:**

***Opens – Due by: Module***

01/11 – 01/27: Introduction to lab, terms, and experimental methods

01/27 – 02/14: Understanding accuracy and precision (consistency)

02/14 – 03/03: Information processing

03/03 – 03/21: Electroencephalography (EEG)

03/21 – 04/07: Practice scheduling

04/07 – 04/21: Providing feedback

**Experience of human research participants (50% of lab grade and due by 04/22 at 11:59 PM):** The only way that research in motor learning and performance moves forward is by the voluntary participation of human research participants. Participants are key stakeholders in the research process who sacrificed their time and, in some cases, put their health/safety at varying degrees of risk to advance scientific knowledge. As such, a key part of this lab is to give students a deeper appreciation of the value and experience of human research participants. For our lab, this understanding of the human research experience can be gained in two ways: **(1) active participation in research** and/or **(2) reading about published experiments and writing papers explaining the experience of participants in those studies.** Each research participation is worth a number of credits, and each paper is worth up to 2 credits. **You must accumulate 6 credits**. So, you could, for example, earn your 6 credits by participating in 4 credits of research and writing 1 paper (assuming you earned all 2 credits for the paper). Your grade will be based on how many credits you complete (e.g., if you complete 3 credits, then you will receive a 50%).

1. Participation in research
   1. You should have received an email from the College of Education’s SONA system, which coordinates human subjects research. PLEASE MAKE SURE THAT YOU ARE ON THE COLLEGE OF EDUCATION’S SONA SYSTEM (The Department of Psychology also has a separate SONA system.) The email contained a temporary password, which you can use to log on to SONA: <https://auburn-education.sona-systems.com/Default.aspx?ReturnUrl=%2f> . If you cannot locate this email, please visit the SONA website (see link above) and request a new password. If you are continuing to have difficulty logging on to SONA, please contact the SONA administrator at [sona@auburn.edu](mailto:sona@auburn.edu) .
   2. Once logged on to SONA, you can sign up for studies worth varying amounts of credit.
   3. There are also studies that are being conducted that are not posted on SONA. You may complete these studies. If you complete one of these studies, please have the experimenter indicate your participation on the sheet at the end of this syllabus. Each half-hour of participation is equal to 1 credit.
   4. **If a study is posted on SONA, you must register for it through SONA. That is, you *cannot* email the researcher and have them complete the sheet at the end of the syllabus.**
   5. You cannot use research participation for more than one course. That is, you cannot participate in research and apply the credit to this course and another course. Make certain you choose to assign the SONA credits to this course (KINE 3651).
   6. **All six of your participation credits must come from laboratory-based studies (as opposed to online surveys).**
2. Write a brief research paper that describes the research methods of a primary research article (ask your lab instructor if you are unsure whether an article is ‘primary’) published in one of the following journals: [*Human Movement Science*](https://www.journals.elsevier.com/human-movement-science/); [*Journal of Experimental Psychology: Human Perception & Performance*](http://www.apa.org/pubs/journals/xhp/); [*Journal of Motor Behavior*](http://www.tandfonline.com/loi/vjmb20); [*Journal of Sport and Exercise Psychology*](http://journals.humankinetics.com/journal/jsep); [*Psychology of Sport and Exercise*](https://www.journals.elsevier.com/psychology-of-sport-and-exercise/); [*Sport, Exercise, and Performance Psychology*](http://www.apa.org/pubs/journals/spy/). In your paper, you must clearly explain the following: (1) What was the goal of the research? (2) Who were the participants and how were they selected? (3) What were the experimental methods (make sure that you focus on the participants’ experience with the methods (e.g., How long were participants in the lab? Were any of the procedures invasive? Did any of the procedures place the participants at risk?) (4) Do you believe the benefits of the study (the information gained from the study) outweighed the costs to the participants (the time and effort put forth by participants as well as the risk they took by participating). Each of the four requirements in the paper is worth 0.5 credits. So, if you successfully meet all four requirements, then you will earn 2 credits.

**Use this template example to create your paper:**

1- Introduction (your topic of study, why did you choose your topic, the paper(s) you selected and the goal they had - what they wanted to investigate)

2- Methodology (participants, exclusion criteria, tasks, questionnaires, number of days, time in the lab - just try to pretend you are telling me a story about the experiment, and be specific about the procedures, etc.)

3- Results (explain to me the results they found)

4- Conclusion (all the last three topics in our syllabus - if it was worthwhile researching the topic, if you would like to participate in this type of experiment, and the conclusion about your paper related to the topic and motor learning).

5 - References (study/studies utilized to create your Research Paper).

**Contingency policy:**

If normal class and lab activities are disrupted due to illness, emergency, or crisis situation (such as an H1N1 flu outbreak), the syllabus and other course plans and assignments may be modified to allow completion of the course. If this occurs, an addendum to your syllabus and/or course assignments will replace the original materials. In case I am unable to instruct due to illness, Julia Montagner Sassi (jzm0082@auburn.edu) will be the back-up instructor for this course, and the classes will be delivered asynchronously online.

**Honesty Code**

All assignments, quizzes, and exams are to be completed ALONE. However, students are permitted to use notes and textbook to complete assignments. Students are also encouraged to ask questions and seek extra help on a regular basis. Please do not wait until the day before an assignment is due. All portions of the Auburn University student academic honesty code (Title XII) found in the Auburn University Student Policy [eHandbook](http://www.auburn.edu/studentpolicies) will apply to this class.

I certify that \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ completed \_\_\_ hours and \_\_\_ minutes of research as a participant on the following date \_\_/\_\_/\_\_\_\_.

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