

Directed Research Agreement Form

This form must be completed as the initial step in the Directed Research (KINE 535) process for any graduate student. The form will require the graduate student to identify a primary and secondary faculty mentor and outline the requirements to complete the directed research project. Should any details of the project change (e.g., change in topic/focus or faculty mentor) a new form must be completed.

Student's name:

ID #:

Primary Faculty Mentor:

Will the research project be part of a course: Yes No

If yes, list the course number and quarter to be enrolled: **KINE 5353, Quarter, Year**

Short description of the proposed research project: *This content can take the form of a brief abstract.*

The purpose of this study is to investigate the relationship between various sports performance tests and hitting performance of college baseball hitters while on the field and in the lab. Under Drs. Mu Qiao and David Szymanski's direct supervision, Student will go through the IRB process, read articles related to baseball hitting (motion capture, force plates, and bat and batted-ball exit velocity), collect and analyze data, and complete a research abstract and poster.

Important Due Dates (EXAMPLES):

These are examples. The primary Faculty Mentor and the student will determine these dates and what is required to complete the Directed Research project.

Date	Week	Things to do and finish	Points (0~5)
Summer		IRB can be submitted during summer break. Make sure the IRB should be approved before the start of the fall quarter.	
Summer		Learn how to use the motion capture system. Dr. Qiao will provide student with the training videos.	
Summer		Learn how to use MATLAB. The student must know how to draw different types of figures using MATLAB. The student must know how to load data into MATLAB. The professor will ask the student to show him on a computer.	
Summer		Read articles related to baseball hitting (motion capture, force plates, bat and exit velocity)	
Summer		Research Proposal sent to mentors for review	
09-03	1	Finalize directed research project & coordinate participants testing schedule	
09-05 thru 09/08	2	Data collection	
09-17	3	Enter Data into Excel spreadsheet	
09-24	4	Analyzing data	
10-01	5	Begin writing abstract	
10-08	6	Continue writing abstract and begin work on poster	
10-15	7	Work on abstract and poster as necessary and begin making PowerPoint (PPT) presentation	
10-22	8	Complete rough draft of PPT presentation and finalize abstract and poster	

10-29	9	PowerPoint sent to professors one week before the presentation for review	
11-05	10	Presentation done	

- The student must meet with the professors weekly to update progress and questions.
- The student is responsible for the deadlines.

Evaluation Assignments/Dates (EXAMPLES)

Grading Scale:

A = 90 -100% B = 80 - 89.9% C = 70 - 79.9% D = 60 - 69.9% F = < 60%

Graduate Student Signature:

Date:

Student: _____

6/25/24

Research Committee Signatures:

Date:

Primary Faculty Mentor: _____

Secondary Faculty Mentor: _____

The primary Faculty Mentor must be a graduate faculty member from the Department of Kinesiology and is ultimately responsible for the direction of the graduate student’s research. The Secondary Faculty Mentor can be a graduate faculty member or instructor. Additionally, the secondary mentor can be a faculty member from a peer institution. Please consult with the Directed Research Coordinator for qualification requirements.

Administrative Signatures:

Date:

Instructor of Record (Dr. Brandon Brockshus): _____

Department Chair (Dr. David Szymanski): _____

Note:

If the graduate student or mentors plan on submitting the results of this study for publication or professional presentation, an Institutional Review Board for Use of Human Research Subjects form must be submitted. Since the form is often updated, please go to the URL address below to find the most recent version. Make sure to open the “Human Use Approval Packet.”

1. https://www.latech.edu/documents/research/human_use_approval_packet.pdf

Furthermore, all students and mentors submitting an IRB as the principal investigator must receive research training for human subjects. This ensures that both the faculty and students comply with the National Science Foundation (NSF) mandate implementing Section 7009 of the America COMRETES Act. Students will be required to provide a copy of their certificate(s) of completion in the discipline specific area(s) before conducting research. Use the URL address below to access IRB and CITI training instructions and website.

2. <https://www.latech.edu/documents/research/irb-training-requirements-for-all-researchers-investigators-conducting-human-subjects-research.pdf>