

Mathematics Education Practicum
15:254:644:C1
By Arrangement (BA) – typically 3 Credits

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Phone Number 848-932-0802	10 Seminary Place, Room 231
Office Hours: by appointment	Prerequisites or other limitations: none
Mode of Instruction: <input type="checkbox"/> Lecture <input type="checkbox"/> Seminar <input type="checkbox"/> Hybrid <input type="checkbox"/> Online <input checked="" type="checkbox"/> Other	Permission required: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes Directions about where to get permission numbers: from Marjory Palius at marjory.palius@gse.rutgers.edu

Learning Goals

1. Students will gain experience in preparing/carrying out research projects in mathematics education
2. Students will gain experience in one or more modes of data analysis
3. Students will have opportunity to refine/provide feedback to authors of VMC Analytics for publication on the VMC
4. Students will have opportunity to construct VMC Analytics
5. Students will have opportunity to review/analyze video data from unpublished studies
6. Doctoral students will make progress toward working on a component of a research study

Course Catalogue Description

Mathematics Education Practicum is based on engaging in research projects and advancing your knowledge and expertise for doing research in an area of interest. Several currently ongoing research projects will be introduced at the organizational meeting on June 4 (see details below). The various projects will be introduced and the work required for the project will be described. For each project, you will work with a partner or small group to contribute to an aspect of the research goal.

Grading and Activities

Successful completion of the course requires that you engage in an appropriate set of activities determined in consultation with the instructor and submit all assignments related to your work.

Project work will be facilitated within small group structure led by a doctoral student. The details of project assignments will be communicated to you during the mandatory organizational meeting held on-campus at beginning of this course and relevant materials will be distributed, based on the project you join.

You will be responsible for completing the individually assigned portion of group project within the allotted time period. Although you will spend time working individually, you are expected to maintain appropriate communication with group members, in person and online, for your convenience. Meetings will be scheduled as needed with individuals and/or small groups to provide guidance with their project work.

Online Platform

A Sakai site will be created to submit a final project report and reflection paper. The work for each project will also be submitted to the group project facilitator. Guidelines will be provided.

Description of Activities

Project work connects to currently ongoing research of the Robert B. Davis Institute for Learning and/or current doctoral dissertation work.

Samples of projects offered for Summer 2016 include the following:

1. Verifying/transcribing/coding video data
2. Reviewing video clips and full videos for making VMC Analytics
3. Creating new VMC Analytics for publication
4. Reviewing VMC Analytics in progress using a rubric to provide feedback to authors
5. Moving forward in developing individual research initiatives (BA with instructor)

Research in progress will be shared at the organizational meeting at beginning of the course. Students will be guided in the selection of an appropriate project(s) based on their backgrounds, interest and what will advance them on the trajectory of assisting in research and preparing to conduct individual research in mathematics education. Students are encouraged to gain experience with more than one project. Pre-qualifying doctoral students will be prompted to consider topics and methods towards development of their own dissertations.

Required Whole Class Meetings

1. Organizational Meeting: June 6, 4:00-6:00 (Graduate School of Education - GSE)
2. Interim Project Report: June 20, 4:00-6:00 (GSE)
3. Interim Project Report: July 13, 11:00 AM-1:00 PM (GSE)
4. Final Meeting: To Be Arranged (GSE)

Small Group Arrangements

As appropriate, arrangements should be made that include collaborative group work, on-line or in person, as appropriate to the project requirements. Although most of the work is individual in nature, each project involves some level of collaboration.

1. For data coding teams, developing reliability in scoring data is important and there needs to be an opportunity for resolution of differences.
2. For teams that are developing/evaluating VMC Analytics, review and feedback for both Event Descriptions and Video Clips are essential.
3. For teams working on literature reviews, summaries of relevant articles will be required

Academic Integrity

The highest standards of academic integrity are expected of all students. The failure of any student to meet these standards may result in suspension or expulsion from the university and/or other sanctions as specified in the academic integrity policies at Rutgers University.

Violations of academic integrity include, but are not limited to: cheating, fabrication, tampering, plagiarism, stealing, or facilitating such activities. The university academic integrity policies are available at the link below:

<http://academicintegrity.rutgers.edu>

Rutgers University welcomes students with disabilities into all of the University's educational programs. In order to receive consideration for reasonable accommodations, a student with a disability must contact the appropriate disability services office at the campus where you are officially enrolled, participate in an intake interview, and provide documentation: <https://ods.rutgers.edu/students/documentation-guidelines>. If the documentation supports your request for reasonable accommodations, your campus's disability services office will provide you with a Letter of Accommodations. Please share this letter with your instructors and discuss the accommodations with them as early in your courses as possible. To begin this process, please complete the Registration form on the ODS web site at: <https://ods.rutgers.edu/students/registration-form>.