Educational Project For MSEED:
Developing and Revising Inquiry-Oriented Mathematics
Faculty Mentor: Prof. Karl Schmitt, MST & CIS

Requirements (one of the following):
If you aren’t sure if you are qualified, please just talk to Prof. Schmitt!

- Experience with Inquiry-Based, Inquiry-Oriented, and or Process-Oriented courses/design
- Took Alternative Calculus 1 & 2 (with Prof. Luther)
- Took Multivariable Calculus (Calc III/MATH 253)

Preference will be given if more interested to someone who’s taken MATH 253 from me.

Project Description:
I currently have a complete set of Inquiry-Based course material for Multivariable Calculus. However, the questions need careful review and revision for correct scaffolding of problems, ability for students to answer based on knowledge in the problems, etc. Discussions with the original author have indicated several other areas for revision (for example, reordering topics, or redesigning the motivating problems). The original author of the text may be available also over the summer as an additional collaborator.

The student(s) working on this project will work through as much of the text as possible, and modify questions, possibly write entirely new questions, write learning objectives for problem groups, etc. The student(s) will be expected to enter revisions into latex (the base file is already in latex).

Benefits include (in addition to MSEED benefits):
- The student(s) will get their name included as an author/editor in the publicly available version on GitHub (which has a few followers and downloads).
- The student should have a significantly deeper understanding of Multivariable Calculus afterwards.