



## UCCS MATH CLINIC

Spring 2022

The Math Clinic is a new program designed for UCCS math students, to engage them with real world projects which are inspired and driven by non-academic partners such as companies or agencies.

### **Role of the External Client**

The 'Client' is the person or a group/entity outside of the Math Department who has an interest in the project and/or who may have proposed it in the first place. The following are the tasks for the Client:

- Make an initial contact (in person or remote) with potential students to briefly describe the project and its deliverables;
- Remain in contact with the student team and their faculty advisor for the duration of the project for any assistance needed or for any change in requirements;
- Attend (in person or remote) the final presentation of the student team and provide feedback on the quality of the work.

### **Role of the Student Team**

Students in the Math Clinic will work in teams to solve a real-world problem. By doing so, they will gain experience with problems that matter to agencies and companies in the community. The following are specific tasks for each Team:

- Understand the requirements and deliverables of the project;
- Translate the real world setting into a mathematical framework;
- Identify promising mathematical modeling and computational techniques and approaches;
- Perform the work of solving the ensuing problems;
- Formulate recommendations based on the solution of the problems;
- Work in conjunction with the faculty mentor and the external client, as needed.
- Communicate in lay terms the results and deliverables to the external clients;

### **Role of the Faculty Advisor**

The Faculty Advisor is the guarantor of the quality of the work done by the Student Teams to meet the Client's expectations. The following are the tasks for the Faculty Advisor:

- Provide support and feedback to the Student Team throughout the entire project;
- Act as a liaison between the Student Team and the Client;
- Ensure that the milestones and deliverables are clear and are accomplished in a timely fashion