

Education Outreach – Informal STEM Ed Summer Camp Internship

Department Liaison

3 credits = 10 hours/week

Student internship through the department that works with faculty and central college staff assist in the implementation and facilitation of Camp Discover, a STEM focused summer camp on FIU's Modesto Maidique campus for children ages 5-14.

- Assists in preparing materials for summer camp counselor activities.
- Assists in facilitating informal science experiments and activities.
- Final project of creating and administering summer camp assessments.
- Assists in summer camp logistics as indicated by the camp director.

Interested applicants should send a resume to Analisa Duran at anduran@fiu.edu with the subject line "CASE Summer Camp Informal STEM Ed Internship".

Summer SESSION C 2022 Semester Progression: The detailed schedule below is based on 10 hours per week. Over the course of the semester, the student would spend their time working on a special project. They will work with staff members to receive direction, guidance and feedback during one-on-one meetings each week throughout the semester.

The culminating project for this internship will be to create assessment for CASE summer camps. The student will be learning about aspects of STEM information education within a summer camp setting such as learning experiences, pedagogies, evaluations, STEM identity and STEM careers. Sections of this project will be due periodically throughout the semester along with assigned readings.

In addition to this, the student will assist in camp preparations, activities and instructor facilitation.

This internship takes place from May 9th – July 29th (10 hours/week). The student intern **MUST** be able to work in person at MMC during these dates (times are flexible). The intern **must** undergo a Level 2 background check since they will be working with children.

SEMESTER SCHEDULE

Week 1: (May 9 - 13) Thinking about informal STEM education + Assessments

The students will begin by reviewing past camp assessments, and reading about ways other camps assess their programming. The student should write one paragraph giving information about the assigned reading and how they plan to use this information for CASE Camp assessments.

- Reading: [A Case Study Exploring Learning Experiences in a Science Summer Camp for Middle Level Students From Taiwan and the United States](#) Pi-Sui Hsu & Margot Van Dyke

Week 2: (May 16 – May 20) Thinking about informal STEM education + Assessments

The students will start to outline the assessment for camp and how it will be administered. The student should write one paragraph giving information about the assigned reading and how they plan to use this information for CASE Camp assessments.

- Reading: [Evaluating University-Based Summer STEM Programs: Challenges, Successes, and Lessons Learned](#) Christopher J. Cappelli, Katherine L. Boice, and Meltem Alemdar
- *Camp Prep:* The student will assist in camp preparations such as putting materials together and organizing camper waivers. The student will also review prepared summer camp lesson plans and activities, themes, field trips and guest speakers.
- *Outline Assessments:* The student will outline the assessments per grade level that will be used for camp.

Week 3: (May 23 – May 27) Learning science in an informal setting + Careers in STEM

The student will read and reflect on how informal learning experiences in science can lead to careers in STEM. The student should include a question about careers within the assessments. The student should write one paragraph giving information about the assigned reading and how they plan to use this information for CASE Camp assessments.

- Reading: [How Can Outreach Foster Further Interest in Stem and Eventually Lead to Careers in STEM?](#) Bussard, Natalia
- *Camp Prep:* The student will assist in camp preparations such as putting materials together and organizing camper waivers.
- *Outline Assessments:* The student will outline the assessments per grade level that will be used for camp.

Week 4: (May 30 – June 3) Learning science in an informal setting + Science perceptions

The student should begin to create the assessments that will be used to assess Camp Discover and Camp Explore. The student should write one paragraph giving information about the assigned reading and how they plan to use this information for CASE Camp assessments.

- Reading: [Students' perceptions of STEM learning after participating in a summer informal learning experience](#) Thomas Roberts, Christa Jackson, Margaret J. Mohr-Schroeder, Sarah B. Bush, Cathrine Maiorca and Maureen Cavalcanti
- *Camp Prep:* The student will assist in camp preparations such as putting materials together and organizing camper waivers.

Week 5: (June 6 – June 10): STEM Identity + Assessments

The student will read and reflect on how informal learning experiences in science impact STEM identity. The student should include a question about STEM identity within the assessments. The student should write one paragraph giving information about the assigned reading and how they plan to use this information for CASE Camp assessments.

- Reading: [Early informal STEM experiences and STEM identity: The importance of talking science](#) Remy Dou, Zahra Hazari, Katherine Dabney, Gerhard Sonnert, Philip Sadler
- *Camp Prep:* The student will assist in camp preparations such as putting materials together and organizing camper waivers.

Week 6: (June 13 – June 17): Camp Discover Observations + Assessment facilitation

FIRST WEEK OF CAMP!

- The student will observe and assist with camp to then finalize their assessments to begin either at the end of this week or the following week.
- The student should be able to attend TWO days of camp to observe (5 hours/day)

Week 7: (June 20 - 24): Camp Discover Observations + Assessment facilitation

- The student will assist instructors and assisting with camp logistics.
- The student will be in charge of administering, organizing and inputting assessment data into Excel.
- The student should be able to attend camp on Fridays to observe camp, administer assessments, and input data.

Week 8: (June 27 – July 1): Camp Discover Observations + Assessment facilitation

- The student will assist instructors and assisting with camp logistics.
- The student will be in charge of administering, organizing and inputting assessment data into Excel.
- The student should be able to attend camp on Fridays to observe camp, administer assessments, and input data.

Week 9: (June 5 – July 8): Camp Discover Observations + Assessment facilitation

- The student will assist instructors and assisting with camp logistics.
- The student will be in charge of administering, organizing and inputting assessment data into Excel.
- The student should be able to attend camp on Fridays to observe camp, administer assessments, and input data.

Week 10: (July 11 – July 15): Camp Discover Observations + Assessment facilitation

- The student will assist instructors and assisting with camp logistics.
- The student will be in charge of administering, organizing and inputting assessment data into Excel.
- The student should be able to attend camp on Fridays to observe camp, administer assessments, and input data.

Week 11: (July 18 - July 22): Move to BBC

The student will assist in the moving of materials from MMC to BBC for Camp Explore.

Week 12: (July 25 – July 29): Final Reflecting on Informal STEM Ed Experience

The student will write a journal reflection that depicts their experience, findings and limitations in creating and facilitating assessments for CASE Camp Discover.