



INDIAN RIVER STATE COLLEGE, FLORIDA SOUTHWESTERN STATE COLLEGE AND BROWARD COLLEGE

Program TITLE:

Research Experience for Pre-Service Teachers

Program DESCRIPTION:

The COSEE Florida REPT program offers students and recent graduates in science education the opportunity to learn first-hand about the process of scientific discovery and research. Students from IRSC, Florida SouthWestern State College, and Broward College will work with local marine scientists on research projects. Students will be paid a stipend, funded by COSEE Florida and the National Science Foundation. The students accepted this summer will work with at least one research scientist mentor and COSEE Florida staff members.

PRE/COREQUISITE:

Juniors, Seniors, or Graduated Seniors in the IRSC, FSW, or BC Middle Grades Science or Secondary Biology Education program.

INSTRUCTOR INFORMATION:

Meghan Buckley, MS, COSEE Florida Program Coordinator

Email: mbuckley@irsc.edu

Phone: 772-462-7663

Office: N224

Jennifer Capers, PhD., IRSC Science Faculty

Email: jcapers@irsc.edu

Phone: 772-462-7556

Office: N212

PROGRAM GOALS FOR INTERNS

1. To gain valuable experience doing authentic science.
2. To increase understanding of and enthusiasm for scientific research.
3. To provide resources and strategies for apply the REPT research experience to the Middle School Classroom.

PROGRAM PRODUCTS

- I. **Scientific Research Poster** – you will develop a poster detailing the research in which you participated. The poster will be in scientific format including abstract, introduction, materials and methods, results and conclusions. At the end of the REPT program, the posters will be printed and a poster session will be held for you to present your research.
- II. **CSTAR** – a four-minute *COSEE Science Teachers as Researchers* (CSTAR) video vignette that highlights your change in growth and understanding of the nature of science. These will be presented to a broader audience at the end of the program.
- III. **Online time sheets** – The **minimum** time commitment expected throughout the REPT experience is 175 logged hours with a minimum of 135 hours in the lab and the remaining time in weekly meetings, CSTAR production, science symposium

participation and lab tours. These hours are submitted online through SurveyMonkey <http://www.surveymonkey.com/s/REPTtimesheet> and on your timesheets at weekly IRSC meetings.

- IV. Reflections** - Each week each participant researches and completes an education and research themed question. These are posted for community review through the REPT Facebook group.

PROGRAM PARTICIPATION MEETINGS AND PRODUCT DATES

Monday – Friday each week: research times at the facility will be arranged according to your mentor team and project; **Wednesdays** we will have meetings at IRSC.

Tentative Schedule:

Date	Time	Subject	Location	Product Due Dates:
Monday, May 11	9:00 – 5:00	Introduction to the program, research project presentations by mentors, expectations and REPT products.	IRSC Y102 Lunch provided	PT Application paperwork due to IRSC HR by May 2. Bring Proof of Insurance to first meeting.
Tuesday, May 12	9:00 – 3:00	Lab tours CSTAR 1 Education: Connecting Science Research to Your Classroom Lab tour	SMS & HBOI Lunch provided FOS	Research Questions for each week will be available at first lab meeting. Please submit answers to week 1 questions with your network reflections and online time sheets to by Fri. at 5:00 pm
Wednesday, May 20	9:00 – 11:00	CSTAR 2 Preparing Your Proposal Presentations	N222 and virtually	Network reflections and online time sheet due Fri. at 5:00 pm
Wednesday, May 27	9:00 – 11:00	Science: Statistical Analysis – Dr. Capers Statistics reflection discussion	N222 and virtually	Network reflections and online time sheet due Fri. at 5:00 pm
Wednesday, June 3	1:00 – 6:00	CSTAR 3 and 4 Science: Developing your poster and practice presentations	FSW Dinner provided	Network reflections and online time sheet due Fri. at 5:00 pm
Thursday, June 4	9:00 – 3:00	Science: Research Proposal Presentations Lab Tours	FSW SCCF	
Wednesday, June 12	9:00 – 11:00	Education: Critical Thinking and Analysis CSTAR 5	N222 and virtually	Network reflections, CSTAR Organizer (sound and image) and online time sheet due Fri. at 5:00 pm.

Wednesday, June 19	9:00 – 11:00	Science: Wrap-up & Review Poster Education: Activity Demonstration CSTAR 6	N222 and virtually	Network reflections and online time sheet due Fri. at 5:00 pm Submit CSTAR to mentors for review by June 18 th
Wednesday, June 24		Meet as necessary	N222 and virtually	Final Electronic Posters submitted by 6/23 (Tuesday) at 9:00 am CSTAR and online time sheets Submitted 6/25 (Thursday) at 12:00 pm
Tuesday, June 30 th	1:00 – 6:00	Lab tour Review CSTARs and bringing REPT experience into the classroom	NSU – OC Dinner provided	Congratulations! Online time sheet due 7/2
Wednesday, July 1	12:00 – 3:00	Symposium set-up COSEE Florida Science Symposium: Present REPT Posters & CSTAR video Program wrap-up	N135 N118	

ATTENDANCE:

If you must be absent, please contact Support Staff immediately through Angel or direct IRSC email or call Dean Lunceford's office in event of emergency. Since you are being paid as an employee, any time missed, whether Wednesday or in the lab, must be made up in order to reach 175 hours for the program within the REPT program time. See Staff for details.