INTegrating
REsearch
Projects
Into
Disciplines

INTREPID PROJECT WORKSHOP #3-4

February 26, 2025

Engaging students

- Personalized topics; self-measurements; engage family/community); matters of everyday interest; current affairs
- CURE should be part of course grade – *What I do: 10-20% of final grade*
- Concrete outcome with practical value (e.g. conference entry on resume)
- Continuity – knowing they can later become part of a research program which will further enhance their resume and result in internship opportunities, stellar letters of recommendation, traveling, networking
- Badges of achievement (Research level I and II)

Research Day

- Spring semester (now Fall?): Student Research Day event
- Subsidized by KCC (except for speaker honoraria); lunch will be offered!
- Students who completed a CURE present their findings as a poster or oral presentation
- Faculty ***may choose*** to offer extra credit in their courses to presenting students (equivalent option for students who choose not to present)
- Possible speakers: invited speaker - benefits of participating in UREs; a scientist - their career path and STEM opportunities (it's open right now)
- Former student participants will talk about their experience in the program
- Conclude with a workshop for students to complete applications for the research programs they learned about (CRSP, K-CORE, New York State Collegiate Science Technology Entry Program, specialized programs for their majors)

CRSP (2-year colleges)

- Students are paid $5,000 stipend for 10+ months
- Mentors also receive research funds
- 400 hours of research with faculty member
- Bi-weekly professional development and training workshops
- Summer symposium (now both winter and summer symposia)

K-CORE: conferences

- K-CORE connected speech-language pathology students to a broader **interdisciplinary** research network. Through this program, from 2019 to 2024, students presented their work at various conferences (in-person and remotely), gaining exposure to experts in fields such as biomedical acoustics, engineering acoustics, architectural acoustics, signal processing, and more.
- By 2024, a total of 27 students completed K-CORE, delivering 39 presentations at national and international conferences.
- Participation in the program's early cycles led to a significant increase in self-reported research and collaborative skills
- KCORE webpage for more information: K-CORE – Laura Spinu

Cinty's experience:

Advantages in Conference Participation:

- **Networking Opportunities:** Interdisciplinary connection between students and faculty involved in different research initiatives (e.g., K-CORE and CUNY Research Scholars Program)
- **Career and Academic Growth:** Hands-on learning, expose students to diverse career paths, and expand their professional networks
- **Enrich Experience:** Strengthens resume by showcasing research, analytical, and communication skills, boosting academic and career prospects
- **Skill Development:** Presenting research enhances communication, critical thinking, and problem-solving abilities

Community

- **Our website** – central support system and peer support

- **A new program under KCeL?** Faculty participants could take turns facilitating a workshop each semester for 1 credit of release time. We will look into a similar format (with paid facilitators) for our next cohorts – no promises!

- **Physical space** for hosting our meetings and allowing faculty to conduct work related to the program

Funding resources

- NSF Undergraduate Research Programs for CUNY Faculty: https://register.gotowebinar.com/register/8967742621393426012
- CRSP: https://www.cuny.edu/research/research-development-programs/student-programs/undergraduate-programs/crsp/
- PSC-CUNY: https://www.rfcuny.org/rfwebsite/principal-investigators/explore-pre-award-resources/psc-cuny-award-program/
- RF CUNY pre-award support: https://www.rfcuny.org/rfwebsite/principal-investigators/explore-pre-award-resources/award-pre-proposal-support-apps/
- MAYBE: RIC: https://www.cuny.edu/research/research-development-programs/faculty-programs/internal-funding/ric/
- MAYBE: CCCE (Community College Capital Equipment Program) / CUE (Coordinated Undergraduate Education) funds: https://www.cuny.edu/about/administration/offices/undergraduate-studies/coordinated/

Your next steps

- **YOUR HOMEWORK:** finalize syllabus and project description with ALL the necessary steps (incorporate student assessment criteria!); Add post to website briefly describing your CURE – **deadline March 5th**

- **Spring 2025:** implement the CURE (please keep in touch throughout, we are happy to schedule 1-on-1 meetings for any troubleshooting)

- **End of Spring 2025 semester:** CURE assessment – external evaluator (you and your students; please prepare them - best to do it in the classroom unless otherwise advised by the external evaluator).

- **Fall 2025:** (optional) K-CORE mentorship ($500 stipend + $300 research supplies (**Requirements:** work with small group of 4-5 students and a designated research assistant, culminating in a presentation at a professional conference)

- **Winter 2026:** (optional) return to Faculty Development Workshop as mentors of incoming faculty AND to develop a CURE for a **new** course (cycle repeats)

- **Winter 2027:** return to Faculty Development Workshop as mentors of incoming faculty AND to develop a CURE for a **new** course

Student assessment: Research Experience Level 1 BOA

1. develop a research question
2. formulate a hypothesis
3. identify primary sources to support their work
4. conduct a research protocol (observation, quasi experimental or experimental work
5. generate descriptive statistics using the data collected
6. understand data represented in a form commonly used in science (text, table, graph)

COMPARE TO RE LEVEL 2 BOA

1. critical thinking
2. data analysis (selecting the appropriate data analysis technique)
3. understanding of ethical principles governing human subject research
4. information literacy
5. technological literacy
6. public presentation of research at a conference

Now let’s go around

- And discuss your spreadsheets/questionnaire/materials
- What is one type of graph you will show your students based on the data collected?
- What is one type of analysis you will show them? (descriptive or inferential)
- What else do you need at this point to be successful?

Please also consider

- Creating a very short video as a roadmap to the project
- Creating a poster template the students can add to gradually (perhaps each homework can link to the poster in some way
  - https://lscconf.commons.gc.cuny.edu/student-poster-sessions/
- Applying for IRB for your CURE (happy to help)
- Using former students who distinguished themselves as research assistants in K-CORE (to ensure tangible role models)