

I can't stop drinking the Coffee.



If I stop drinking the coffee, I stop
doing the standing and the walking and
the words-putting-into-sentence doing.

Would you rather have a teacher have terrible breath
and you can smell it every class or be incredibly
disorganized?

Reflect upon your
Undergraduate time and how
you felt about the teaching?


What would you change?

Center for the Integration of Research, Teaching and Learning (CIRTL)

Dr. Jamie Gurganus

<https://gspd.umbc.edu/center-for-research-teaching-and-learning-cirtl/>

- Increasing institutional fragmentation of STEM teaching and research
- Most faculty positions expect career-long success in ***research and teaching***, with different balances depending on institution
- Undergraduate students perceive that STEM teaching is neither effective nor motivating



Center for the Integration of Research, Teaching and Learning (CIRTL)

*The CIRTl mission is to **enhance excellence** in **undergraduate education** through the development of a national STEM faculty committed to implementing and advancing **effective teaching practices for diverse learners** as part of successful and varied professional careers.*

CIRTl was founded in 2003 as a National Science Foundation Center for Learning and Teaching in higher education.

<https://app.conceptboard.com/board/o2xt-nofo-naa1-f1s5-1k8m>

Teaching-as-Research

- STEM professor as change agent
- The deliberate and systematic use of research methods to advance teaching and learning practices
- Self-sustained improvement of STEM education

Learning Community

- In learning communities, graduate students, post-doc, and faculty share learning and discovery
- Participants collaboratively construct knowledge and achieve learning goals
- Supports growth in teaching and learning

Learning-through-Diversity

- Excellence and diversity are necessarily intertwined
- Students and faculty bring an array of experiences and skills
- Learning of all students is enhanced if all engaged

Opportunities for you!
Become Certified from a Nationally recognized
organization



Outcomes, Get Certified in

CIRTL Associate (International): recognize the role of the CIRTL pillars in effective teaching and learning.

CIRTL Practitioner: scholarly teaching that builds on the CIRTL pillars to demonstrably improve learning and make the results public.

CIRTL Scholar: scholarship that advances teaching and learning under peer review.



For more information
<https://gspd.umbc.edu/about-cirtl/>

Offerings

Workshops

These activities can be offered by UMBC (CIRTL, Promise, Faculty Development Center), regional CIRTL partners (such as UMCP, JHU, or Howard University) and the national CIRTL network. These activities can be face-to-face or online.

Massive Open Online Courses (MOOC) - 8 weeks

MOOC 1: An Introduction to Evidence-Based Undergraduate STEM Teaching

MOOC 2: Advancing Learning Through Evidence-Based STEM Teaching

Associate Level (First Step)

Associate Requirements: ~ Complete in Two Semesters~

- 4 activities (workshops or courses) across topics on pedagogical practices
 - a. One MOOC
 - b. 1 Workshops

Or

- a. Two MOOCs
- 1 additional activity (workshop or course) focused on diversity in teaching and learning
- A teaching philosophy statement

Practitioner Level - Second Step

Practitioner Requirements: ~ 1.5 semesters

- Associate certificate
- 5 activities (workshops) across topics on pedagogical topics
 - At least 2 activities must demonstrate teaching experience or learning about educational research:
 - Any workshop on educational research/Scholarship of Teaching and Learning
 - Actual teaching experience
 - May be TA or guest lecturer or other
 - May be on UMBC campus or another college/university
 - May be face to face or online delivery
 - *Planning Your Teaching as Research Project* course (offered online at CIRTLL.net or at UMBC)
 - At least 1 activity focused on diversity, diverse learners, or culturally responsive teaching and learning
- Diversity and Inclusion & Accessibility, Revised Teaching statement

Scholar Level - Final Step

This final level of CIRTLL certification shows your commitment and experience in teaching and learning.

Scholar Requirements

- Practitioner Certificate
- 3 activities on teaching and learning (more advanced topics are recommended)
- Teaching experience as delivering a Seminar, a Lecture, or other (proposals welcomed)
 - You can submit for approval- Planning, Assessment, Delivery
- Develop a teaching portfolio
- Implement and present a final Teaching as Research Project
 - The presentation can be a poster at CIRTLL all network TAR presentations or at a conference with a strand focused on teaching and learning - i.e. Provost teaching & learning
 - Publication of TAR project is highly desired

What Does this Mean for CIRTL Graduate Students and Post-Docs?

- Being more effective teachers throughout their careers.
- A competitive advantage for faculty positions, and a head start as junior faculty members.
- Increased success in obtaining NSF Graduate Fellowships, CAREER awards, and research funding.

I'm interested.. Now What? Visit

1. Please submit this [Google form](#) using your UMBC email account.
2. You receive information about how to register to Blackboard
3. Follow the steps in Blackboard to get your associate level (level 1).
Contact [Dr. Gurganus](#) if you have questions or concerns.
4. When completing the certificate, please notify [Dr. Gurganus](#). Certificates will be processed at the end of the semester.

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Summer Enrichment Academy (SEA) CIRTLL Fellows

Summer Enrichment Academy

- The Summer Enrichment Academy at UMBC offers unique, fun, challenging and mind expanding academic summer workshops and camp programs for middle school and high school students that can't be found anywhere else.
- SEA brings our students exposure to the college experiences with opportunities in science, engineering, technology, the arts and humanities, all led by UMBC faculty, industry professionals and graduate students.
- Rigorous, engaging, 1 week summer workshops and camp programs are designed to spark our students deepest passions and interests.

SEA CIRTL Fellowship

Students receive the following:

- 1 year-long experience
 - One on One with the Director and Program Coordinator
 - Intentional PD around teaching and curriculum development with experts
- CIRTL associate and practitioner levels certification after the year
- \$2000 stipend (\$1000/week for half day, 5 days)
- Cohort experience training
- Faculty mentors



sea.umbc.edu



EXPLORE

2023 SUMMER

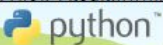


sea.umbc.edu

ENRICHMENT ACADEMY - CIRTL PROGRAMS

June 26-30

INTRODUCTION TO PYTHON PROGRAMMING



\$299

July 24 - 28

GAME BUILDING WITH PYTHON



July 10-14

EXPLORING THE PRINCIPLES OF SCIENCE



July 10-14

ELECTRICAL ENGINEERING: OPTICAL EFFECT AROUND US



July 24 - 28

CRYPTOGRAPHY AND SYSTEMS SECURITY



July 31 - Aug 4

ETHICAL HACKING



FOR REGISTRATION:

SEA.UMBC.EDU



sea.umbc.edu

<https://gspd.umbc.edu/sea-cirtl-fellows/>

Contact information

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