

Building Undergraduate Research, Scholarship, and Creative Activities (URSCA)

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Plan for Today

- A little more of my history
- Why undergraduate research, scholarship, and creativity matter
- Challenges with undergraduate research, scholarship, and creativity (URSCA) and faculty workload
- Challenges for your future and final thoughts

How? Why?


How did he get here?

- B.A.—Journalism and Theology
- M.A.—Higher Education and Student Affairs
- Ph.D.—Geography
- Carthage (both sides now)
- CUR
- Post-doc—Business



What I do (and have done)

- Geo-demographic Analysis using “Big Data”
- Real Estate Value
- Undergraduate research where students ask the counter-intuitive question



The educational benefits of incorporating authentic research in curriculum

WHY WOULD WE DO THIS THING?




Why should we do Undergraduate Research?

- Fair Question
- Others will offer a range of reasons (advancing knowledge, building graduate students, etc.)
- Mine come from Student Affairs
 - We do it to affect change in students



Research is Good for Students

- High Impact Practice
- Biggest Impacts
 - 1st Generation Students
 - Underrepresented Groups
 - 1st and 2nd year students





High Impact Practices

- First Year Seminars and Experiences
- Common Intellectual Experiences
- Learning Communities
- Writing Intensive Courses
- Collaborative Projects
- Undergraduate Research
- Diversity/Global Learning
- Community Based Learning/Service Learning
- Internships
- Capstone Courses and Projects

High Impact Practices (HIPs—beyond trendy and cliché


- Deep Learning
- Higher Grades
- Student Development
 - Intellectual Development
 - "Authentic Learning"
- Apprenticeship in learning how to learn
 - Transferable knowledge



Among all the good things we do for students HIPs are the most profound

Transformation of Students:

- Getting them from simple structures to complex ones in 4 years
- Slow process
- No single one of us can do this task
- No single remedy can accomplish this



School of Intellectual Development

Change in my Thinking

- All these years in the intellectual development camp (still haven't left)
- Finally joined the Education and Identity camp (Chickering)



Chickering's Vectors



Research Outcomes for Students

- Competence in intellect and task
- Managing Emotions
- Learning Independence
- Developing Purpose and Identity

We are out to affect students

- Intellectual development for sure
- Psychosocial
 - Developing Competence (physical, intellectual, interpersonal)
 - Managing Emotions (anxiety, failure, success)
 - Autonomy to Independence (problem solving, initiative)



What are the developmental outcomes you want for students?



All Well and Good, but . . .

THE IMPACT IS HIGH, BUT THE RANGE IS LIMITED—OUR LOAD IS HEAVY

Yes—Limited impact for just a few

- Needs to expand beyond our “elite” students to the pedestrian level
- Needs to be woven into the curriculum.
- What would that look like?
- What if you built an undergraduate research curriculum that looked like this?



Revising existing courses to include scaffolded undergraduate research projects



So What are we talking about?

- **Undergraduate Research, Scholarship and Creative Activity** is an inquiry, investigation, or creative work conducted by an undergraduate student that makes an **original, intellectual, or creative** contribution to the discipline.

Process is the key idea

- CUR and the larger URSCA movement is focused on more than just the final output (although important)—the entire **process** of development is the focus.

Research-rich curriculum

- The prevailing thought is that research is woven into the curriculum (Malachowski & Osborn)
 - Expands opportunities for students
 - Reexamines the idea of faculty load/work
- Builds out of work from NSF and HHMI grants



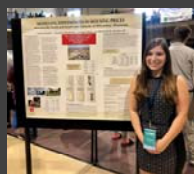
Scaffolding

- Scaffolding is a metaphor borrowed from building construction to indicate supports provided early in a process—and gradually removed as progress is made



Scaffolding for what?

- Senior Capstone/Thesis?
- Independent Research Projects?
- Summer Research?
- External Research?
- Just because?



Thinking about models

NO NEED TO BE LIKE THE NATURAL SCIENTISTS

Places for Experiences

- Adding or revising inquiry-based assignments
- Creating new research-intensive courses
- Redesigning an entire program to create a research-supportive, inquiry-based curriculum
- (Discipline/Department, General Education, Multidisciplinary)

Places for Experiences

- Research connected with practicum/internship experience
 - Field observations based on particular theory or in comparison to “best practices”
- Community-based research
- Business Research

Places for Undergraduate Research in the Curriculum

- Archival research
- Policy analyses
- Program evaluation
- Case studies
- Oral histories
- Secondary Data Analysis (Big Data)
- Public scholarship
- Problem-focused research
- Literature review / grant writing
- Scholarship of teaching and learning

Embedding Examples

- Building a Literature Review
- Research/Grant Proposal
- Formal Research/scholarship with product
- Research Proposal
- Literature Reviews
- Stats as Embedded Research
- Business Research as Creative Activity

What are your goals and how do you want to get there

- Capstone Project or Thesis?
- Increasing Capacity for UR
- Courses with Research Outcomes
- Research Internships
- Creativity Projects (URSCA)
- Literature Review or Research Proposal?
- Summer Program

Practicing what I preach

- Embedded Undergraduate Research (Statistics—happy to share anything from this)
 - Teaching Partner and I expect real change next year
- Marketing Plan in Marketing Principles
- New Market Research Class



What are you going to do to scaffold research for your students?

EVEN IF YOU DON'T KNOW RIGHT NOW—
IMAGINE A BIT

Example institutions

- The College of New Jersey
- UNC-Asheville
- The College of Wooster
- Wisconsin-Eau Claire
- Bridgewater State College
- Allegheny College
- Florida Southern College



CUR is here to Help



- To promote and support high quality undergraduate student-faculty research and scholarship
- To help institutions build and enhance the infrastructure that increases undergraduate research
- You are an enhanced institutional member

CUR Resources



MEETINGS

- National Conferences
- National Conference on Undergraduate Research
- CUR Dialogues
- Institutes & Workshops
- Posters on the Hill

SERVICES

- Consulting Service
- Mentor Network
- CUR Fellows Awards
- Listservs
- Advocacy

PUBLICATIONS

- SPUR Journal*
- "How To" Series
- Specialized Volumes

