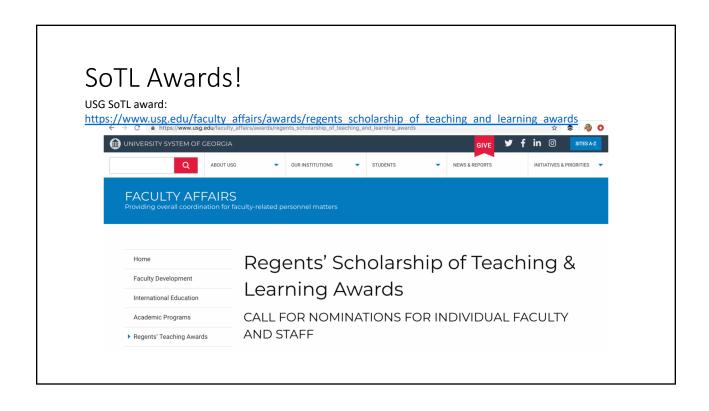
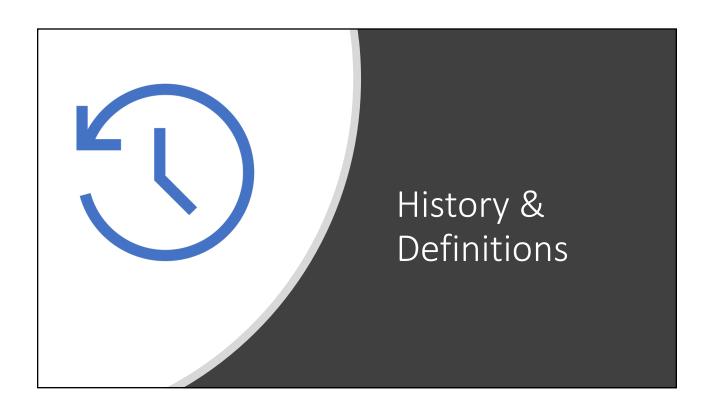
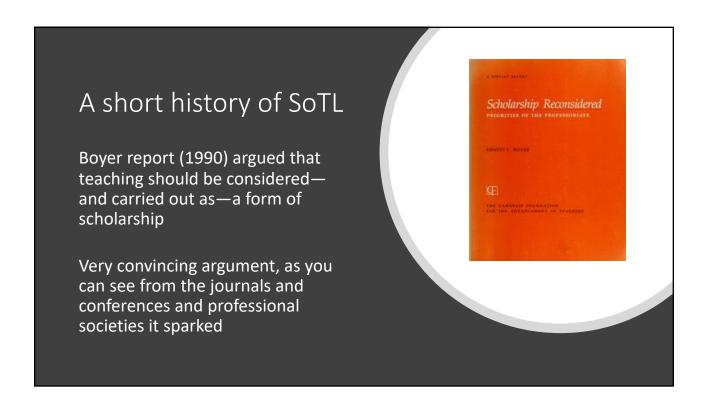


http://cetl.kennesaw.edu/teaching-conferences-directory









Good Teaching

All faculty have an obligation to teach well, to engage students, and to foster important forms of student learning – not that this is easily done. Such teaching is a good fully sufficient unto itself.

- Hutchins & Shulman, 1999





Incorporate current ideas in discipline content and pedagogy

Invite peer collaboration and review

Scholarly Teaching (Richlin, 2001)

Scholarly Teaching

We are all expected to be scholarly teachers at the USG!

"All faculty members are encouraged to enhance their classroom instruction by using scholarly teaching."



USG Academic and Student Affairs Handbook 4.7.2 https://www.usg.edu/academic affairs handbook/section4/C691/

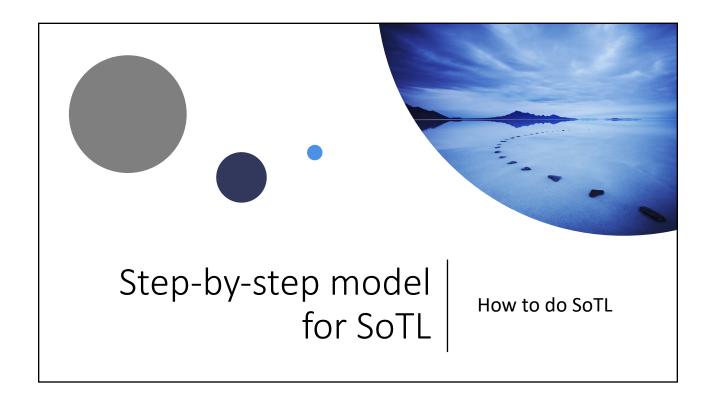
SoTL focuses on *systematic* inquiry into student learning and/or one's own teaching practices in higher education

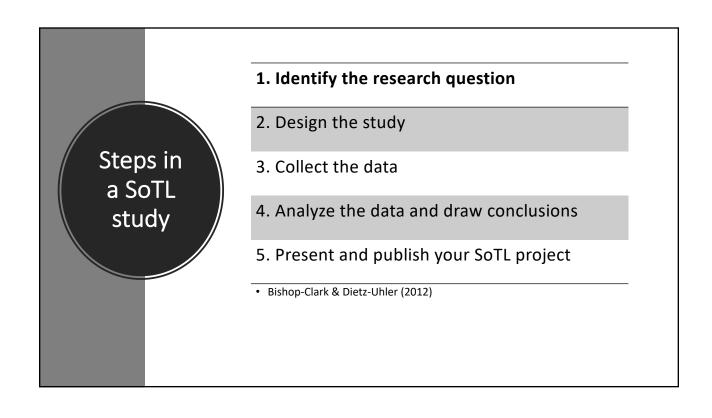
As *scholarship*, it must:

- Use sound methods appropriate to the research question
- Be peer reviewed and evaluated
- Be disseminated as scholarly work

When we do SoTL we join the global conversation on teaching and learning!







Identify the research question	Will TiTLing an assignment lead to improved products (and better grades)?
Design the study	TiLT half of the assignments and leave the other half un-TiLTed. [will need IRB approval]
Collect the data	Review assignment grades and/or rubric categories
Analyze the data; draw conclusions	Compare performance on TiLTed and non-TiLTed assignments
Present and publish your SoTL project	Find a disciplinary or general SoTL conference and submit it

Example (adapted from B-C & D-U 2012)

1. Identify the research question



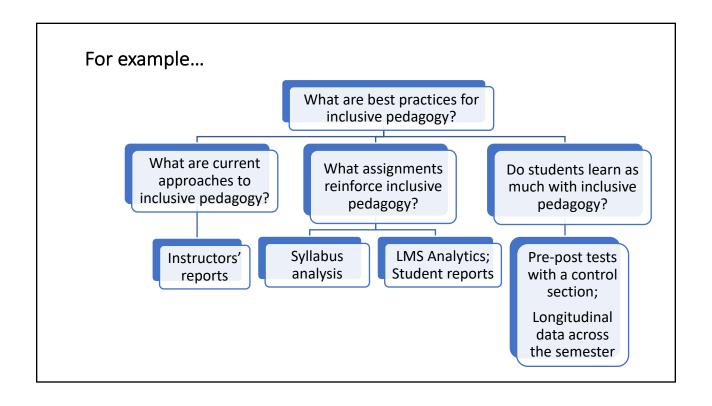
Sources for research questions

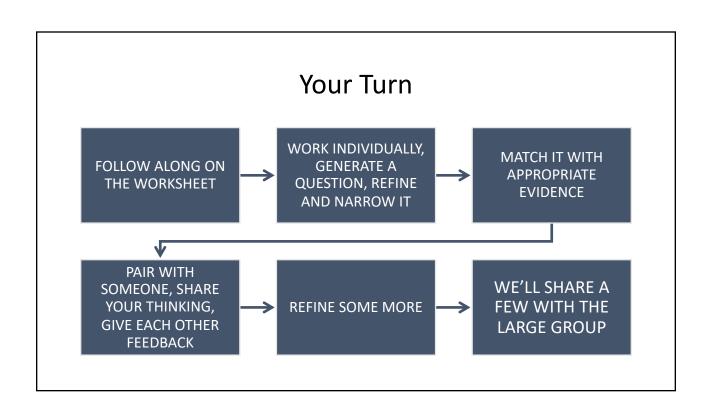
- Situational context
 - Institutional characteristics
 - Student characteristics
 - Student challenges
 - New teaching methods
- Use the FLC topics for inspiration
- Start from the bottlenecks in your courses (Middendorf & Pace, 2004)

Generating a productive research question can be a challenge

Usually the first questions that come to mind are too broad, difficult to tackle, or unmeasurable

We often need to narrow them down to a measurable question





In your packet

- Research question handout
- Annotated bibliography
- Blank SoTL planning template to use in your FLCs
- Annotated worksheet
- Worked out example focusing on flipped courses

Digital versions will be available on the USG website:

https://www.usg.edu/facultydevelopment/chancellors_learning_scholars

2. Design the study

2. Design the Study

Conduct a pilot study: Develop pedagogies/measures

Choose a research approach: Align approach and question

- Descriptive studies
 - "What is....?"
- Experiments or Quasiexperiments
 - "What works?"

Design Study – Continued

Where do data come from?

Observations
Case Studies
Surveys
Interviews/Focus Groups
Single Subjects

Student
Participation in
Research:
Considerations

Students = human subjects → ethics review, usually by "Institutional Review Board"

- Informed consent
 - (Parental consent for minors)
- Right to privacy (confidentiality, anonymity) and data security
- Risk of harm
- Debriefing

Do you know the website for your institution's IRB?

Timeline: What's reasonable/feasible?

Heavily constrained: January-April!

Need time for question refinement, literature review, IRB, and data collection

Dilati

What works vs. What is

3. Collect the data

Fundamental data principle

Start by looking at what data are already available

- Does it help answer your question?
- What are examples of already available data?

Already available data

Syllabi and other course materials

Student evaluations (numerical/comments)

Student Outputs (exams, papers, etc)

Discussion boards on LMS

ANYTHING (esp. metadata) on LMS!!

Assessment reports

Placement data



Selecting measures: Student behaviors, learning, attitudes

- Frequency Counts
- Archival measures (e.g., Transcripts)
- Surveys
- Tests
- Rubrics
- Classroom Assessment Techniques (Angelo & Cross 1993):
 - Minute paper/muddiest point
 - Background knowledge probe
 - Problem recognition tasks

- 4. Analyze the Data and Draw Conclusions
- 5. Present and publish your SoTL project

General Considerations for Analysis and Publication What support do you have at your institution for various kinds of data analysis?

- Statistics and data analysis center
- Colleagues specializing in specific methods (coauthorship?)
- Centers for Teaching and Learning

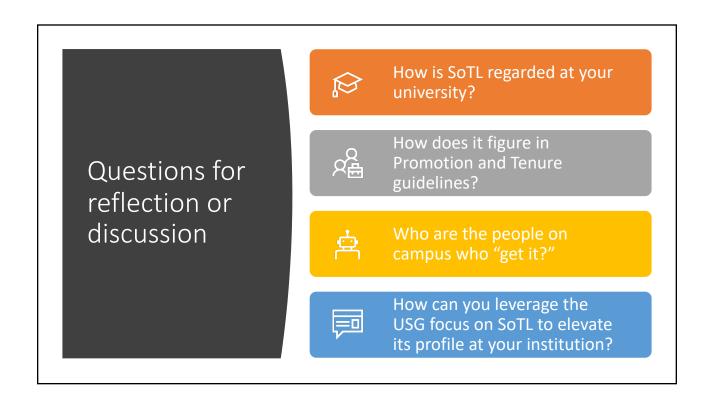
What conclusions are warranted?

- Generalizations?
- Limitations?
- Future research?

SoTL is its own genre and has a wider audience, so write accordingly

• Read other SoTL articles

(6.) Change the campus culture!





What's next?

You could facilitate a SoTL FLC
Learning how to do SoTL
Reading SoTL
Developing SoTL project(s)

Or...

You could incorporate SoTL in your topical FLC

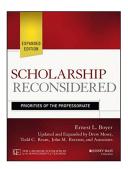
- Small teaching: examine effect of teaching changes
- Mindset: Does teaching to growth mindset make a difference in student success?
- Inclusive pedagogy: Does it have a positive effect on the learning environment?
- TiLT: Do TiLT assignments lead to better student products?
- Course Design: Does explicit incorporation of learning outcomes throughout the course produce better student understanding?

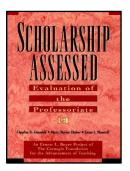
And there are resources to help you

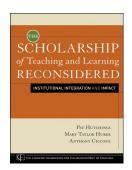
SoTL Resources: The Boyer Model of Scholarship

1990: Scholarship Reconsidered1997: Scholarship Assessed

2011: The Scholarship of Teaching and Learning Reconsidered





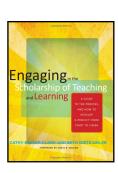


SoTL Resources: Books on Conducting SoTL

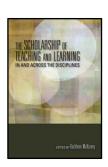
Bishop-Clark and Dietz-Uhler (2012) Gurung and Wilson (2013)

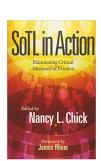
McKinney (2013)

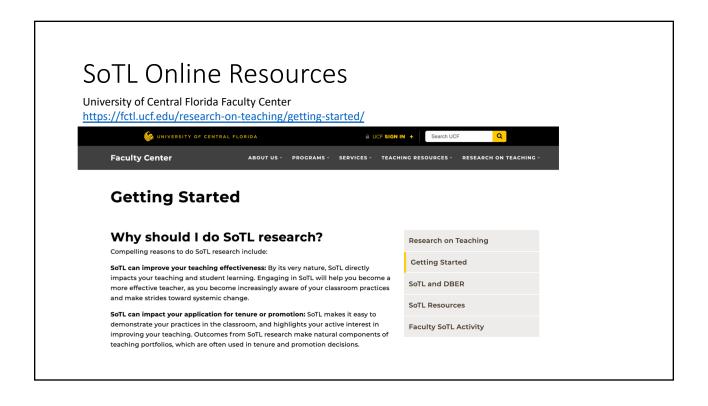
Chick (2018)











USG SOTL Resources

The USG office (Denise and Jeff) and the institutional educational development point persons are also great resources, take advantage!



References

- Ambrose, S. A., Bridges, M. W., DiPietro, M., Lovett, M. C., & Norman, M. K. (2010). *How learning works:* 7 research-based principles for smart teaching. San Francisco, CA: Jossey-Bass.
- Angelo, T. A., & Cross, K. P. (1993). *Classroom assessment techniques: A handbook for college teachers* (2nd ed.). San Francisco, CA: Jossey-Bass.
- Boyer, E. L. (1990). Scholarship reconsidered: Priorities of the professorate. San Francisco, CA: Jossey-Bass.
- Bishop-Clark, C., & Dietz-Uhler, B. (2012). Engaging in the scholarship of teaching and learning: A guide to the process, and how to develop a project from start to finish. Sterling, VA: Stylus.
- Dweck, C. S. (2013). Mindset: The new psychology of success. Ballantine.
- Felten, P. (2013). Principles of good practice in SoTL. Teaching & Learning Inquiry, 1(1), 121-125.
- Felten, P., Kalish, A., Pingree, A., and Plank, K. (2007) Toward a Scholarship of Teaching and Learning in Educational Development. To Improve the Academy, 25, 93-108.

References

- Glassick, C. E., Huber, M. T., & Maeroff, G. I. (1997). Scholarship assessed: Evaluation of the professoriate. San Francisco, CA: Jossey-Bass.
- Gurung, R. A., & Schwartz, B. M. (2009). *Optimizing teaching and learning: Practicing pedagogical research*. Malden, MA: Wiley-Blackwell.
- Gurung, R. A. R., & Wilson, J. H. (Eds.). (2014). Doing the scholarship of teaching and learning: Measuring systematic changes to teaching and improvements in learning. *New Directions for Teaching and Learning*, 136.
- Hutchings, P. (2000). *Opening lines: Approaches to the scholarship of teaching and learning.* Stanford, CA: Carnegie Foundation.
- Hutchings, P., Huber, M. T., & Ciccone, A. (2011). The scholarship of teaching and learning reconsidered: Institutional integration and impact. San Francisco. CA: Jossey-Bass.
- Hutchings, P. & Shulman, L. S. (1999, September/October). The scholarship of teaching: New elaborations, new developments. *Change*, *31*(5), 10-15.

References

- Kuh, G.. D. (2008). *High-Impact Educational Practices: What They Are, Who Has Access to Them, and Why They Matter*. Washington, DC: Association of American Colleges and Universities.
- Lang, J. M. (2016). *Small teaching: Everyday lessons from the science of learning.* San Francisco, CA: Jossey-Bass.
- McKinney, K. (Ed.). (2013). The scholarship of teaching and learning in and across the disciplines. Bloomington, IN: Indiana University Press.
- Middendorf, J., & Pace, D. (2004) Decoding the disciplines: A model for helping students learn disciplinary ways of thinking. *New Directions for Teaching and Learning*, 98. Jossey-Bass.
- Richlin, L. (2001) In C. Kreber (Ed.) Scholarly Teaching and the Scholarship of Teaching. Scholarship Revisited: Perspectives on the Scholarship of Teaching. New Directions for Teaching and Learning, 86. San Francisco: Jossey-Bass.
- Sill, D. (n.d.) Simple Commitment but Long-Term Challenge: Promotion and Tenure, and the Scholarship of Teaching & Learning. In "Faculty Promotion and Tenure: Eight Ways to Improve the Tenure Review Process at Your Institution." Faculty Focus.