Promoting Student Engagement with the MAA Instructional Practices Guide

Linda Braddy
Tarrant County College

Doug Ensley
MAA

http://maa.org/ip-guide/
Workshop Outline

• Introductions
• Overview of MAA IP Guide project
• Student engagement practices
• Leading departmental change
Overview

During the development of the most recent Curriculum Guide from the MAA Committee on the Undergraduate Program in Mathematics (CUPM), the MAA determined that a companion guide on instructional practices was in order.
Overview

- Ongoing, NSF-funded, two-year effort
- Seeks to document research on effective course design, assessment, and classroom practices
- Seeks to promote the use of evidence-based practices that contribute to effective teaching through **active learning** and **student engagement**.
Small Group Activity

1. Form groups of two
2. Share an example of an instructional practice that promotes student engagement
3. Discuss what resources and planning are necessary to effectively implement this practice
Overview of MAA IP Guide

0 – How to Use This Guide
1 – Manifesto
   a. Goal of Guide
   b. Implementation challenges
   c. Evidence based practices, informed by research
   d. Cross-cutting themes
      i. Diverse teachers, diverse environments
      ii. Diverse students, inclusive teaching
      iii. Student engagement in & out of class
      iv. Intentional teaching to address learning goals
Overview of MAA IP Guide

2 – Classroom Practices
3 – Assessment Practices
4 – Design Practices
5 – Program-level Implementation & Assessment (for leadership in departments and institutions)
6 – Areas for future research, identify gaps
7 – Appendix: “Further Reading”, recommended bibliography for further reading for practitioners annotated with brief summaries and comments about audience
Overview of MAA IP Guide

Anticipated Audience

New faculty
Seasoned faculty who want to modify their teaching methods
Adjunct faculty
Graduate teaching assistants
Overview of MAA IP Guide

0 – How to Use This Guide – include flowchart
1 – Manifesto
   a. Goal of Guide
   b. Implementation challenges
   c. Informed by evidence based practices
   d. Cross-cutting themes
      i. Diverse teachers, diverse environments
      ii. Diverse students, inclusive teaching
      iii. Student engagement – in & out of class
      iv. Intentional teaching LO’s
2 – Classroom Practices
3 – Assessment Practices
4 – Design Practices
5 – Program-level Implementation & Assessment
6 – Areas for future research, identify gaps
7 – Appendix: “Further Reading”, recommended bibliography for further reading for practitioners with brief summaries and comment about audience
Small Group Activity

1. Form a different group of two
2. Choose any ‘active learning’ or student engagement practice mentioned previously
3. Discuss what resources and support would be necessary for this practice to be used widely at your institution.