

Amy K Biegalski

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Education

- Ph.D. Structural Engineering, CASE School of Engineering, Cleveland, OH 2005
Dissertation: *Performance of a GFRP Reinforced Concrete Bridge Deck*.
Adviser: Dr. Arthur Huckelbridge
- M.S. Structural Engineering, CASE School of Engineering, Cleveland, OH 2002
Thesis: *Load Testing for the Evaluation and Rating of Short-Span Reinforced Concrete Slab Bridges*.
- B.S. Civil Engineering, summa cum laude, The Ohio State University, Columbus, OH 2000

Teaching Experience

The University of Tennessee, Knoxville, TN

Senior Lecturer, Engineering Fundamentals Department

August 2020 - Present

Lecturer, Engineering Fundamentals Department

January 2015 - August 2020

Courses:

EF102, Introduction to the Tickle College of Engineering. Strategies and resources for success. (fall semesters 2021-present)

EF 152, Physics for Engineers II. Calculus based physics, teamwork, design, communication. (spring and fall semesters 2015-2019, Summer 2015,2018)

EF 230, Computer Solutions of Engineering Problems. Computer Programming and Design. (spring and fall semesters 2015 to present, Summer 2020)

EF 302, Engineering Leadership Seminar. Leadership related skills. (fall semesters 2018-present)

Pellissippi State University, Knoxville, TN

Instructor, Physics for Engineers.

2008

Case Western Reserve University, Cleveland, OH

Instructor of Record, Surveying and Computer Graphics

2003-2004

Graduate Teaching Assistant/NSF Graduate Research Fellow

2001-2004

Courses:

Strength of Materials, Statics and Strength of Materials, Surveying and Computer Graphics, Engineering Service Project Seminar

Service Activities

Engineering Fundamentals

EF GTA Interview Committee Chair, lead hiring process EF GTAs, 2016 - Present.

EF TA training workshop, co-developer with R Ellestad and presenter, 2016 - Present.

EF Learning Objectives Review Committee, 2019 - 2020.

Tickle College of Engineering

Faculty Liaison, Engage Living and Learning Community (first year engineering dorm), 2015 - Present

- Development and management of co-curricular events, including tours, speakers, social, service and professional events, and in-dorm study hours and exam reviews
- Manage resources including purchasing and equipment
- Recruiting and selection of incoming members
- Manage website and communications
- Serve as active member of the community to provide a faculty connection to first year students

Faculty Mentor, Engage Leadership Team, 2018 - Present.

- With R Ellestad, founded this community of upperclass students living in our engineering dorm to serve as mentors to our first year students
- manage recruiting and selection, summer training program, associated 1-credit hour Fall leadership course, oversee meetings and activities.
- tiered mentoring, serve as a mentor to these upperclass students who mentor our first-year students

Co-Faculty Mentor, Engineering Mentor Program, 2018 - Present.

Member, TCE Scholarship Committee, 2020 - Present. Review applicants, track budget and awards granted/accepted to determine and adjust criteria and award amounts.

Member, Faculty Advisory Committee for TCE Faculty Affairs, 2020 - Present.

Member, TCE EF102, Introduction to TCE Course Development Committee, 2019 - Present.

Member, TCE Teaching Awards Committee, 2017-2021.

Hands-on Workshop development and instruction for TCE recruitment events.

- ConNEXTion, for prospective admitted female students, Intro to Engineering Fundamentals and robotics, 2021-present.
- Summer Pre-College EVOL10 Engineering Camp, Intro to engineering disciplines, Engineering Fundamentals, and design projects using robots/development boards, 2018 - 2020.
- Y12 Introduce a Girl to Engineering Day, hands-on activities for 500 middle and high school students, 2017-present.
- Come See Tennessee, for multicultural high school seniors, Intro to Engineering Fundamentals and Arduinos, 2019.
- Tomorrow's Engineers Today, for middle and high school girls, Hands-on Arduinos, 2019.
- Bristol YWCA/TechGirls for low cost introduction to engineering activities, 2018.

Member, NTT Faculty Policy Committee, 2021-2022.

Member, Peer Teaching Review Committee, FA 2018, SP 2021 (Chair), FA 2021, SP 2022 (Chair), FA 2022 (Chair), FA 2023 (Chair).

Member, Cook Grand Challenges Honors Program Faculty Search Committee, 2019-2020.

Member, Committee for the Outstanding Support Staff Awards, 2018-2020.