

KATELYN TRAGESER

6105 Fagan Circle, DeRidder, LA 70634
515-570-7388 | katelyn.trageser@gmail.com

EDUCATION

Nicholls State University, Thibodaux, LA

M.S. in Mathematics

In Progress

Degree anticipated May 2020

Completed 15 Credit Hours as of December 2018

GPA 4.000/4.000

University of Baltimore, Baltimore, MD

Masters of Business Administration

GPA 3.797/4.000

Completed coursework while maintaining full-time employment

Iowa State University, Ames, IA

B.S., Cum Laude, Mechanical Engineering

Vice President of Pi Tau Sigma, Mechanical Engineering Honor Society

Seven semesters on the dean's list for the College of Engineering

Program for Women in Science and Engineering, member

TEACHING EXPERIENCE

Saint Martin's University - Lacey, WA

Adjunct Faculty – Mathematics and Business

2016 - Present

Mathematics Instructor

2017 - 2018

Responsibilities

- Plan and deliver lectures to traditional and non-traditional students in mathematics and business courses, online and face-to-face.
- Prepare and maintain all lectures, homework, and exams.
- Develop effective online course materials and manage the LMS for each assigned course.
- Hold regular office hours online and in person to facilitate one-on-one learning by answering student questions.
- Respond to student emails and questions delivered through the course LMS within twenty-four hours.
- Incorporate online components using Moodle, WebAssign, MyLab Math, and course specific video recordings.
- Participate in department meetings to ensure implementation of university standards.

Mathematics for Computer Science – MTH200

- One 8-week semester session located online
- Topics of instruction include set theory, Boolean algebra, study of algorithms, study of discrete structures such as graphs and trees, and study of matrix equations.

Business Calculus – MTH161

- One 8-week semester session administered online
- Topics of instruction include linear algebra, linear programming, and calculus.

Precalculus II – MTH122

- Four 16-week semester sessions located on the main campus of the university.
- Topics of instruction include trigonometric functions, analytic trigonometry, polar coordinates, complex numbers, roots of equations, conic sections, and sequences and series.

Precalculus I – MTH121

- One 16-week semester session located on the main campus.
- A transition from algebraic functions to transcendental functions
- Topics of study include systems of equations and inequalities

Intermediate Algebra – MTH101

- Six 16-week semester sessions delivered on the main campus.
- Topics of instruction include sets, functions, systems of equations and inequalities, and graphing

Applied Quantitative Management Techniques – BA302

- One 6-week summer term delivered online for the main campus.
- Two 8-week term delivered online for the Extended Learning Division.
- One 8-week term in person as part of the Extended Learning Division programs.
- Developed and uploaded multiple Microsoft Excel tutorials to Moodle and YouTube for student use outside of the classroom.
- Areas of instruction include mathematical modeling, linear and nonlinear programming, network analysis, and simulation.

Operations Management – BA320

- One 8-week term as part of the Extended Learning Division programs.
- Instructed courses at an accelerated pace including face-to-face lectures twice per week and online components using Moodle.
- Topics covered include the relationship of factor inputs to the final output of the firm, organization, administration and internal working relationships of industrial and service firms, layout, scheduling, inventory management and location analysis.

Private Tutor**2016 - 2018**

Lacey, WA

- Instruct individuals of varying ages regarding mathematical concepts in preparation for exams
 - Topics of instruction include factoring, linear and quadratic equations and the associated graphs, equations of lines, complex numbers, systems of equations, and linear and quadratic inequalities.

- Instruct middle school student
 - Topics of instruction include science, social studies, reading comprehension, math, necessary organization skills, and techniques to focus and prioritize.

Associate Faculty

Barton Community College – Fort Riley, KS

Responsibilities as an associate faculty member

- Planned and delivered lectures to students based on the college's six to eight-week term length
- Prepared and maintained all lecture materials, homework assignments, and exams, including final exams
- Developed and delivered hybrid face-to-face and online teaching components
- Tailored and managed the teaching environment to serve all types of learners, including active duty soldiers, dependents, high school and college students, and adult learners
- Collaborated with college representatives to ensure understanding of teaching roles and functional responsibilities
- Maintained records of student achievement per college requirements

Basic Algebra**2014**

- One term as part of the daytime leadership skills enhancement program which met five days per week
- Instructed personalized lectures covering the areas of fundamental algebraic operations, factoring, algebraic fractions, linear and quadratic equations, exponents and radicals

Intermediate Algebra**2014**

- Four terms of intermediate algebra including both day and evening course
- Areas of instruction included properties of real numbers, linear and quadratic equations, equations of lines, polynomial and factoring operations, rational expression operations, functions, graphs of linear and quadratic functions,

complex numbers, integer and rational exponents, radicals, systems of linear equations, and linear and quadratic inequalities

College Algebra

2014

- One term for the daytime leadership skills enhancement program
- Planned and taught lessons covering the topics of polynomial, rational, exponential, and logarithmic functions and their graphs; complex numbers, systems of equations and inequalities, and matrices and determinants

Elements of Statistics

2014

- One term as part of the daytime leadership skills enhancement program teaching five times per week
- Lesson materials covered elementary descriptive statistics, probability, various distributions, confidence intervals, sampling methods, hypothesis testing, and correlation and regression

Analytical Geometry-Calculus 1

2014

- One term for the evening college program
- Twice weekly lectures encompassed the areas of limits, differentiation, definite and indefinite integration of polynomial, trigonometric, exponential, logarithmic and inverse trigonometric functions

Learning Community Mentor Iowa State University, Ames, IA

Department of Mechanical Engineering

2006-2007

- Conducted two lectures per week explaining college procedures and reviewing areas of study in which the students requested further instruction
- Organized career development seminars for students with local companies
- Assisted students with the transition from high school to college through the use of mentorship and student development activities

PRESENTATIONS

Daughters of Charity Emmitsburg Province, Emmitsburg, MD

2010

Wrote and presented green building construction ideas for the renovation of the Basilica and multi-wing renovation of the Provincial House located in Emmitsburg, MD. Presented cost saving figures and calculations to the sisters.

Rehoboth Beach-Dewey Beach Chamber of Commerce

2010

Developed and presented the Leadership in Energy and Environmental Design (LEED) portion of the final construction interview for Destination Station Center, Ltd in Rehoboth Beach, DE.

DESIGNATIONS

Google Certified Educator – Level 1	2018
LEED Accredited Professional issued by the Green Building Certification Institute	2008

PROFESSIONAL EXPERIENCE

The Whiting-Turner Contracting Company
Baltimore, MD

Assistant Project Manager **2008 – 2012**

Read, interpreted, and overlaid construction plans to identify construction conflicts within the plans, prior to them occurring in the field. Coordinated construction work with owner representatives, architects, engineers and site subcontractors. Used Microsoft PowerPoint and Suretrak scheduling software to develop and make project progress presentations on a biweekly basis to the Sisters of Bon Secours, Marriottsville, MD and the Daughters of Charity, Emmitsburg, MD. Developed and tracked project schedules and phase completion using appropriate software. Met with the facilities manager of the Sisters of Bon Secours on a monthly basis to explain the equations and accounting process used in the development of the monthly construction invoice.

Cargill Incorporated
Watkins Glen, NY
Cedar Rapids, IA

May 2007 – Aug 2007

May 2005 – Dec 2005

Intern

Researched, coordinated and managed various engineering projects including cost reduction projects, in-line valve replacement projects, safety improvements, HVAC system creation, tank sizing and installation, demolition of obsolete equipment, and hazardous chemical safety equipment installation. Presented calculations and supporting materials for each project to the appropriate plant manager.

Case New Holland
Burlington, IA

May 2006 – Aug 2006

Current Product Support Intern

Researched and coordinated projects related to current product issues. Modeled tractor loader backhoe designs using Pro-E software.

REFERENCES

Dr. Katherine Porter

Associate Professor, Mathematics
Saint Martin's University
Lacey, Washington
360-438-4312
kporter@stmartin.edu

Dr. Renee Sample

Adjunct Faculty, Mathematics
Saint Martin's University
Lacey, Washington
937-305-6186
rsample@stmartin.edu

Dr. Carol Overdeep

Mathematician
Naval Underwater Warfare Center
Keyport, Washington
overdeepc@gmail.com

Jay E Cougnet

Project Manager
The Whiting-Turner Contracting Company
Baltimore, MD
410-821-1100
jay.cougnet@whiting-turner.com