JENNY NEHRING

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EDUCATION

Utah State University
Ph.D. Education **2021**
Specialization: Curriculum and Instruction
Concentration: Mathematics Education and Leadership

Western Governors University
M.S. in Mathematics Education **2012**

Utah Valley University
B.S. Mathematics **2005**

Utah Valley University
B.S. Mathematics Education **2005**

UNIVERSITY TEACHING EXPERIENCE 2022-Present

Lecturer – Information Systems and Technology
Utah Valley University, Orem, UT
Teach Introduction to System Administration Linux/Unix, Database
Fundamentals, Information Systems and Technology Foundations

Adjunct Instructor – Strategic Management and Operations **2019-2022**
Utah Valley University, Orem, UT
Teach business calculus, data analytics, and business statistics

Lecturer – Finance and Economics **2015 - 2017**
Utah Valley University, Orem, UT
Collaborated on building the syllabus, exams, overall course
structure, and administered all grades. Developed a hybrid course
for MGMT 2240.

Adjunct Instructor – Mathematics **2005 – 2015**
Utah Valley University, Orem, UT
Taught business calculus, business statistics, and several
mathematics courses throughout the university

PUBLIC SCHOOL TEACHING EXPERIENCE

Mathematics Teacher – Algebra 2, Precalculus, College prep,   **2007 – 2014**
College Algebra
American Fork High School, American Fork, UT
Collaborated on curriculum and exam implementation and
administered all grades. Designed and implemented a new course
to prepare students for college algebra. Implemented and taught
concurrent enrollment college algebra.

Mathematics Teacher – Pre-Algebra, Algebra   **2005 – 2006**
Mountain Ridge Junior High, Highland, UT
Collaborated on curriculum and exam implementation, and
administered all grades

AWARDS AND PROFESSIONAL RECOGNITION

Outstanding Score on Mathematics: Content Knowledge, ETS Praxis   **2009**
Outstanding Score on Principles of Learning and Teaching, ETS Praxis   **2008**
Outstanding Instructor, Utah Valley State College   **2007**
   TRIO Student Support Services

RESEARCH INTERESTS

Intelligent tutoring systems
Online teaching
Mathematical assessment programs
Mathematics placement

PRESENTATIONS

Moss, D, & Nehring, J. V. (2019, October). *Supporting students in understanding fractions: Fractions are more than parts and wholes*. Presentation conducted at the National Council of Teachers of Mathematics (NCTM) Regional Conference, Salt Lake City, UT.

Moss, D, & Nehring, J. V. (2019, October). *Using discussion to make sense in a mathematics classroom*. Presentation conducted at the National Council of Teachers of Mathematics (NCTM) Regional Conference, Salt Lake City, UT.

Nehring, J. V., & Mgonja, T. (2016, November). *What does engaged learning look like?* Presentation conducted at the Annual Conference of the Utah Council of Teachers of Mathematics (UCTM), Salt Lake City, UT.

SERVICE AND INVOLVEMENT
Designed and implemented a hybrid course for MGMT 2240 Business Calculus (2017)
Faculty Advisory Group member for UVU Competency-Based Education (2015-2016)
Committee member for textbook adoption for Alpine School District's college prep mathematics course (2009)

UNIVERSITY TEACHING
Utah Valley University, Orem, Utah (2005-present)

Courses Taught-Utah Valley University

IT 1510 – Introduction to System Administration – Linux/UNIX
Introduces the UNIX Operating System using the popular Linux OS. Explores the Linux file system, Linux administration, OS utilities, and program features and uses. Aids the student in the development, understanding, and working knowledge of the details of the Linux Operating System, memory organization, disk architectures, and demand paged virtual memory. Includes OS installation, user creation, rights management, loading daemons, and server best practices.

INFO 2410 – Database Fundamentals
Introduces concepts and use of database management systems. Presents the relational model, Structured Query Language, database design including normalization theory, and application development tools using an enterprise-level relational database management system.

INFO 1120 – Information Systems and Technology Foundations
Explores the fundamental concepts of information technology and the role played by enterprise systems in business and organizational strategy. Introduces types of systems, computer organization and hardware, operating systems and networking, project planning, software development, computer ethics, and career paths for enterprise developers and IT professionals.

MGMT 2400 – Data Analytics for Business
Introduces the field of data analytics in business. Introduces the software, languages, and hardware used in data analytics. Uses common analytical tasks such as clustering, classifying, and predicting outcomes, along with common algorithms used in data analytics, such as regression, decision trees, and neural networks. Discusses the legal, ethical, and privacy issues inherent with big data projects. Includes hands-on experience with data extraction, data analysis and interpretation.

MGMT 2340 – Business Statistics I
Presents an application of statistics in business and economics covering methods of collecting, analyzing, and presenting data. Includes frequency distributions, averages, index numbers, probability, sampling, estimation, analysis of variance, time series, regression and correlation, and chi-square.

MGMT 2240 – Business Calculus
Studies quantitative tools, which aid in decision making. Teaches business specific use of calculus, algebra, and introductory statistics, plus emerging non-linear mathematics (chaos) in business. Uses lectures, videos, online quizzes, online discussions, online tutoring, and problem sets to explain concepts.

MATH 1100 – Introduction to Calculus
Introduces the student to differential and integral calculus with applications to a variety of fields, including business, economics, and the life, social, and physical sciences. Develops and applies the concepts of calculus to functions of one variable. Studies differential calculus involving functions of several variables. Emphasizes understanding and communication of mathematical ideas, logical reasoning, and problem-solving.

MATH 1060 – Trigonometry
Includes the unit circle and right triangle definitions of the trigonometric functions, graphing trigonometric functions, trigonometric identities, trigonometric equations, inverse trigonometric functions, the Law of Sines and the Law of Cosines, vectors, complex numbers, polar coordinates, and rotation of axes.

MATH 1050 – College Algebra
Includes inequalities, functions and their graphs, polynomial and rational functions, exponential and logarithmic functions, conic sections, systems of linear and nonlinear equations, matrices and determinants, arithmetic and geometric sequences, and the Binomial Theorem.

MAT 1030 – Quantitative Reasoning
Introduces major topics in the field of mathematics. Includes sets, algebra, geometry, and statistics. Emphasizes problem solving and critical thinking.

MAT 1010 – Intermediate Algebra
Expands and covers in more depth basic algebra concepts introduced in Beginning Algebra. Topics of study include linear and quadratic equations and inequalities, polynomials and rational expressions, radical and exponential expressions and equations, complex numbers, systems of linear and nonlinear equations, functions, conic sections, and real world applications of algebra.

MAT 0990 – Introductory Algebra
For students who have completed a minimum of one year of high school algebra or who lack a thorough understanding of basic algebra principles. Teaches integers, solving equations, polynomial operations, factoring polynomials, systems of equations and graphs, rational expressions, roots, radicals, complex numbers, quadratic equations, and the quadratic formula. Prepares students for MAT 1010, Intermediate Algebra.

MAT 0950 – Foundations for Algebra
Designed for students requiring basic math and pre-algebra instruction. Covers basic operations
for number systems up to and including real numbers. Includes fractions, ratios, proportions,
decimals, exponents, roots, linear equations, and polynomial expressions.