

Name Joe E. Kirk, Jr.
Title Professor
Department Mathematics and Statistics
College Arts and Sciences

Degrees Earned

Degree, Major, (minor – optional), Institution, Year

PhD	Mathematics, 1967, The University of Texas at Austin
MA	Mathematics, 1962, The University of Texas at Austin
BA	Mathematics and Physics, 1960, Sam Houston State University

Professional Licensure and Certifications

Peer-Review Publications and Artistic Performances/Exhibitions

Articles

“The Uniformizing Function for a Class of Riemann Surfaces”, *Pacific Journal of Mathematics*, 40(1972), 623-628.

Books

Chapters

Proceedings

“The Uniformizing Function for Certain Riemann Surfaces”, presented to the American Mathematical Society, *Notices of the American Mathematical Society*, 20(1973), A109-A110.

“A Doubly Connected Riemann Surface”, presented to the American Mathematical Society, *Notices of the American Mathematical Society*, 17(1970), 772.

“Random Numbers and the Poisson Distribution Applied to Computer Simulations of an Arms Control Inspection System”, United States Arms Control and Disarmament Agency, Technical Paper, 1968.

“Data Requirements for an Arms Control Inspection System Simulation”, United States Arms Control and Disarmament Agency, Technical Paper, 1968

“The Problem of Waiting Time in the VISTA Model”, United States Arms Control and Disarmament Agency, Technical Paper, 1967

Artistic Performances

Artistic Exhibitions

Research Monographs and Technical Reports

Funded External Grants

Peer-Review Presentations/Posters

Work or Professional Experiences

EXPERIENCE (UNIVERSITY)

1980-present Associate Professor, Professor – Mathematics
Sam Houston State University

1974-1980 Assistant Professor, Associate Professor – Mathematics
The University of Tennessee at Chattanooga

1969-1974 Assistant Professor – Mathematics
The University of Wyoming

1960-1963, 1964-1967 Teaching Assistant, Special Instructor – Mathematics
The University of Texas at Austin

1963-1964 Graduate Fellow in Mathematics
Rice University

EXPERIENCE (OTHER THAN UNIVERSITY)

1967-1969 U S Army (active duty), Captain

Operations Research Analyst
United States Arms Control and Disarmament Agency, Washington, D.C.

1972-1988 United States Army Reserve, Lieutenant Colonel

Statistician and Budget Analyst
Comptroller of the Army, The Pentagon, Washington, D.C.

Artillery Battalion Commander
Counterpart Training, Fort Sill, Oklahoma

Instructor, Analysis and Operations
Command and General Staff College, Dover, Delaware

Instructor, Gunnery
Artillery Officer Advanced Course, Fort Sill, Oklahoma

1964-1983

Flight Instructor - Airplanes and Instruments
Ground Instructor - Advanced
Ground Instructor - Instruments
Ragsdale Aviation Flight School, Austin, Texas
Redleg Flight School, Fort Sill, Oklahoma
DC Military Flight School, Washington, D.C.
Laramie Aviation, Laramie Wyoming
Tennessee Airmotive, Chattanooga, Tennessee
Huntsville Aviation, Huntsville, Texas

Chief Pilot of the Flight School, Tennessee Airmotive
Charter Pilot (FAR Part 135), Laramie Aviation

Honors and Awards

Other Competencies

COURSES TAUGHT AT SAM HOUSTON STATE UNIVERSITY

MTH 031 Developmental Mathematics, Introductory Algebra
MTH 032 Developmental Mathematics, Intermediate Algebra
MTH 132 Intermediate Algebra
MTH 134 The Art of Mathematics
MTH 142 Calculus I (4 hours)
MTH 143 Calculus II (4 hours)
MTH 162 College Algebra
MTH 163 Plane Trigonometry
MTH 164 College Mathematics
MTH 164 jointly with CS 133/College Mathematics
MTH 166 Mathematics of Finance
MTH 170 Pre Calculus Algebra
MTH 172 Calculus I (3 hours)
MTH 173 Calculus II (3 hours)
MTH 199 Mathematics for Managerial Decision Making I
MTH 244 Calculus III (4 hours)

MTH 274 Calculus III (3 hours)
 MTH 299 Mathematics for Managerial Decision Making II
 MTH 364 Introduction to Mathematical Thought
 MTH 375 Calculus IV (3 hours)
 MTH 376 Differential Equations
 MTH 377 Introduction to Linear Algebra and Matrices
 MTH 379 Statistical Methods in Practice (also STA 379)
 MTH 384 Mathematical Systems for Elementary Teachers
 MTH 394 Numerical Methods (also CS 394)
 MTH 395 Introduction to Mathematical Modeling
 MTH 396 Operations Research
 MTH 461 Introductory Analysis
 MTH 466 Elementary Analysis
 MTH 470 Special Topics
 Computer Algorithms for the Classroom
 Differential Equations
 Operations Research
 Real Analysis
 Mathematical Modeling
 MTH 476 Mathematics of the Physical Sciences

 MTH 560 Special Topics
 Numerical Analysis
 Complex Analysis
 Algebraic Systems,
 Introductory Analysis
 Advanced Financial Concepts and Computations
 MTH 579 Functions of a Complex Variable

 STA 169 Elementary Statistics
 STA 379 Statistical Methods in Practice (Also MTH 379)

 CS 394 Numerical Methods (Also MTH 394)
 CS 477 Simulation
 CS 560 Special Topics
 Numerical Analysis
 Linear Programming