UNIVERSITY OF CENTRAL FLORIDA
MATHEMATICS

GRADUATE STUDIES IN MATHEMATICS
The Department of Mathematics offers the opportunity to pursue the Ph.D. degree in Mathematics, MS degree in Mathematical Sciences, MS degree in Industrial Mathematics, and Graduate Certificate in Mathematics. The emphasis in the program is on contemporary areas of applied mathematics and traditional areas of core mathematics. Students have the opportunity to specialize in Approximation Theory, Applied and Computational Harmonic Analysis, Big Data and Mathematical Statistics, Combinatorics and Graph Theory, Commutative Algebra and Algebraic Geometry, Control and Optimization, Differential and Symplectic Geometry, Fluid and Plasma Dynamics, Functional Analysis, Inverse and Ill-posed Problems, Mathematical Biology, Mathematical Finance, Nonlinear Waves and Nonlinear Dynamics, Numerical Analysis, Orthogonal Polynomials, Partial Differential Equations, Probability and Stochastic Analysis, Tomography and Medical Imaging, and Wave Propagation. For appropriately trained students opportunities may exist to work under the Cooperative Education Program with local industries like Lockheed Martin, N.A.S.A., Siemens and Harris Corporation.

COURSE OFFERINGS
The department offers a wide variety of graduate courses to train students in mathematics and its applications. The courses are offered in a collegial, friendly environment with small classes and high student-faculty interaction.

FACULTY
The faculty in the Department of Mathematics includes leading experts in many of the areas mentioned above. Faculty members include invited speakers at the International Congress of Mathematics, Fellows of the American Mathematical Society, and a National Science Foundation Career awardee. Many faculty members conduct interdisciplinary research with several having joint appointment with other departments, research institutes and centers within the university. The department has organized many international and national conferences and has hosted meetings of the American Mathematical Society, the Mathematical Association of America, SIAM and other organizations.

FINANCIAL ASSISTANCE
The department offers many graduate teaching assistantships on a competitive basis and recommends graduate students for various university and national fellowships. Individual faculty also offer some graduate research assistantships and summer research assistantships from their research grants.

For additional information please visit http://math.cos.ucf.edu or write to:

Graduate Program Director
Department of Mathematics
University of Central Florida
P.O. Box 161364
Orlando, FL 32816-1364
Tel: (407) 823-4839
Email: qiyu.sun@ucf.edu

FACULTY
DEPARTMENT CHAIR:
Xin Li, Approximation Theory

ASSOCIATE CHAIR:
Joseph Brennan, Algebra

GRADUATE PROGRAM DIRECTOR:
Qiyu Sun, Applied and Computational Harmonic Analysis

PROFESSORS:
John Cannon, Applied Mathematics/PDEs
Roy Choudhury, Nonlinear Dynamics
Deguang Han, Functional and Applied Harmonic Analysis
Mourad Ismail, Special Functions
David Kaup, Nonlinear Waves, Modeling
Alexander Katsevich, Computer Tomography
Piotr Mikusinski, Functional Analysis
Ram N. Mohapatra, Mathematical Analysis
Zuhair Nashed, Functional and Numerical Analysis/Inverse Problem
Marianna Pensky, Theoretical and Applied Statistics
Gary Richardson, Mathematical Statistics
David Rollins, Fluid and Nonlinear Dynamics
Bhimsen Shivamoggi, Fluid and Plasma Dynamics
Constance Schober, Numerical Analysis, Nonlinear Dynamics
Alexander Tovbis, Applied Mathematics, Nonlinear Waves
Kuppalapalle Vajravelu, Applied Mathematics, Heat Transfer
Jiongmin Yong, Control and Mathematical Finance
Cynthia Young, Laser Propagation
Yue Zhao, Graph Theory and Combinatorics

ASSOCIATE PROFESSORS:
Dorin Dutkay, Functional and Harmonic Analysis
Junho Lee, Differential Geometry
Heath Martin, Commutative Algebra
Brian Moore, Numerical Analysis
Andrew Nevai, Mathematical Biology
Yuanwei Qi, Nonlinear PDEs
Michael Reid, Combinatorics, Tiling
Zixia Song, Graph Theory and Combinatorics
Jason Swanson, Probability and Stochastic Analysis
Alexander Tamasan, Inverse Problems and PDE

ASSISTANT PROFESSORS:
Basak Gurel, Symplectic Geometry and Topology
Zhe Liu, Functional Analysis, Operator Algebra
Zhisheng Shuai, Mathematical Biology
Teng Zhang, Big Data, Statistics and Optimization

EMERITI:
Larry C. Andrews, Wave Propagation
Lee Armstrong, Mathematics Education
Robert Brigham, Graph Theory
Michael Taylor, Probability and Statistics