DEPARTMENT OF MATHEMATICS COLLEGE OF ARTS AND SCIENCES

Faculty

The Wolfram Research Inc. Awaislawarded to a freshman George Mos(2009). Associate Professor of Mathematics an Calculus student chosen by the Department of Mathematics Department Chair. B.S., Auburn University; Ph.D., Virginia based upon demonstrated outstanding achievement, enthusiasm, ingenuity, and creativity in mathematics. Polytechnic Institute and State University.

Bryan Dawsor(1998). University Professor of Mathematics. B.S. and M.S., Pittsburg State University; Ph.D., University The department offers a major in mathematics and minors of North Texas.

in mathematics, mathematics with emphasis in statistics, Richard Dehn (1969). Associate Professor of Mathematics and actuarial science, and an interdisciplinary minor in B.S., University of Memphis; M.A.T., Purdue University; Computational Engineering Science. Students majoring in M.S., University of Arkansas, Additional study, University of mathematics may select from the following tracks: mathematics, Wisconsin, University of Arkansas, University of Missouri-Rolla teacher licensure in mathematics for secondary education (grades

Chris Hail (1995). Professor of Mathematics. B.S., 7-12), or actuarial science. The offerings of the pragoide Campbellsville College; M.A., Morehead State University, a foundation for beginning graduate study in mathematics, for entry into mathematics-related work fields, and for teaching Ed.D., University of Kentucky. mathematics at the secondary level. Students majoring or

Dwayne Jenning (\$1981). Associate Professor of Mathematicsminoring in mathematics begin their academic credit towards and Computer Science. B.S., Union University; M.S. the major or minor with courses numbered MAT 205 or above. (Mathematics) and M.S. (Computer Science), University of Students having a four-year high school mathematics program Memphis. that included trigonometry should be able to begin the calculus

sequence in their first semester. Matt Lunsford (1993). Professor of Mathematics. B.G.S. Louisiana Tech University; M.S., University of Nebraska; Ph.D., A Tulane University.

develops the student's ability to think logically, analytically, and abstractly; to pursue a body of knowledge whose basis is independent of both empirical observation and culture; and to learn humility and a sense of wonder at the complexity, beauty, and applicability of mathematics.

Student Awards

A Departmental Awards given to the senior who places first in the Major Field Test for Mathematics as partial fulfillment of MAT 498.

Graduation with Discipline-Specific Honors in Mathematics requires the student must:

- Complete degree requirements with a minimum 3.50 mathematics GPA ,
- Complete each honors contract course with a grade of B or better,
- Present the project at the Union University Scholarship Symposium,
- Apply to present the project at an off-campus meeting, and
- Submit an article based on the project.

Greater detail for admissions, honors contract requirements, and other program specifics is provided at

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207. Transition Mathematics (3) F

Corequisite: MAT 212.

An introduction to abstract mathematical reasoning, including reading and writing proofs. Topics include logic, types of proofs, set theory, functions and relations.

208. Statistics (3) F; S—As Needed

Prerequisite: MAT 201 or 211.

This is a calculus-based statistics course. Topics include descriptive statistics, probability theory, discrete and continuous random variables, common discrete distributions, the normal distribution, sampling distributions, and applications to confidence interval estimates and hypothesis testing.

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413. College Geometry (3) Three-semester rotation Prerequisites: MAT 207 and 212.

Topics include axiomatic foundations of Euclidean and non-Euclidean geometry, models for incidence geometries, and development of theorems in the geometries of the Euclidean plane and the hyperbolic plane.

415. Abstract Algebra (3) Three-semester rotation Prerequisites: MAT 207 and 212. An introduction to the theory of groups and rings. Topics include elementary properties of groups and rings, permutation