The Department of Mathematics and Statistics of Villanova University
A Little Information about our courses and our faculty from just the past few years

**Upper Level Undergraduate Electives**
- Applied Statistical Models
- Chaos
- Coding Theory
- Combinatorics
- Complex Analysis
- Cryptography
- Deterministic Operations Research
- Differential Geometry
- Epidemiology
- Graph Theory
- History of Mathematics
- Introduction to Bayesian Statistics
- Logic
- Mathematical Statistics
- Mathematics and Social Justice
- Mathematics of Financial Derivatives
- Medical Imaging
- Monte Carlo Methods
- Number Theory
- Numerical Analysis
- Operations Research
- Statistical Methods
- Topics in Geometry
- Topology
- Unsolved Problems in Number Theory

**Undergraduate Independent Study Courses**
- Algebraic Number Theory
- Applied Advanced Combinatorics
- Applied Data Analysis
- Bayesian Statistics
- Deterministic Operations Research
- Elliptic Curves
- Financial Mathematics
- Further Topics in Algebra
- Geometric Models
- Geometric Topology
- Mathematical Modeling in Biology
- Mathematical Modeling
- Mathematics in a Business Setting
- Probability
- Real Analysis
- Real Analysis with Economic Applications
- Statistics and Soccer
- Teaching Middle School Mathematics
- Topics in Abstract Algebra
- Topics in Advanced Calculus
- Topics in Analysis
- Topics in Cryptography
- Topics in Number Theory
- Topics in Numerical Analysis
- Topics in Topology

**Employment plans of graduates**
- Ernst and Young
- CapTech Ventures
- Cenlar
- MassMutual
- SAP
- Deloitte
- Vertex
- SEI Investments
- Kepler Group
- Willis Towers Watson
- Navigant
- Jefferies LLC
- Baseball Operations, NY Yankees
- Catholic Relief Services, Madagascar
- JP Morgan Chase
- TD Bank
- Standard and Poors
- US Navy
- Price Waterhouse Coopers
- Clark Associates

**Graduate school plans of graduates**
- First Derivatives PLC
- Gabriel
- Roeder, Smith, and Co.
- Quantics
- Mountain Valley Treatment Center
- Mutual of Omaha
- Lockheed Martin
- US Navy Flight School
- Wells Fargo
- Medical school, U Penn
- Aerospace Engineering, U Maryland
- Bridgewater State
- Economics, U Penn
- Harvard Business School
- U Delaware
- Stevens Institute of Technology
- NYU
- U Penn w/NSF Grad Fellowship
- Business Analytics, RPI
Recent awards received by our faculty
The Waller Education Award, a national award given by the American Statistical Association to recognize an outstanding early-career statistics educator
The Henry L. Alder Award of the Mathematical Association of America, a national award given for Distinguished Teaching by a Beginning College or University Mathematics Faculty Member
The Paul R. Halmos-Lester R. Ford Award for expository excellence, given by the Mathematical Association of America
The first College of Liberal Arts and Sciences Tolle Lege Award for Excellence in Teaching in the adjunct faculty category
The James P. Crawford Award for Distinguished College or University Teaching from the Eastern Pennsylvania and Delaware section of the Mathematical Association of America
The Lindback Award for Outstanding Teaching, a campus-wide award by Villanova University
The inaugural College of Arts and Sciences Excellence in Teaching Award
The Lawrence C. Gallen, O.S.A. Faculty Service Award of Villanova University
Villanova University Outstanding Faculty Research Award
The College of Arts and Sciences Faculty Research Award

Service on editorial boards
The American Statistician
Notices of the American Mathematical Society
The MAA Notes series
The Anneli Lax New Math Library
Environmetrics
Scientific World Journal
PRIMUS
ISRN Algebra
Journal of Statistics Education
Journal for Mathematics and the Arts
Plus hosting monthly meetings of the Philadelphia Area Seminar in the History of Mathematics

Papers published in various journals (just a sample)
Acta Arithmetica
American Journal of Ophthalmology
Annals of the Institute of Statistical Mathematics
The Australasian Journal of Combinatorics
Beitrage zur Algebra und Geometrie
Bulletin of the Institute of Combinatorics and Its Applications
Classical and Quantum Gravity
Computational Statistics and Data Analysis
Elemente der Mathematik
Environmental and Ecological Statistics
The Fibonacci Quarterly
Fields Institute Communications
General Relativity and Gravitation
Historia Mathematica
IEEE Transactions on Engineering Management
International Journal of Algebra and Computation
International Journal of Engine Research
Journal de theorie des nombres de Bordeaux
Journal of Applied Ecology
Journal of Automobile Engineering
Journal of Integer Sequences
Journal of Multivariate Statistics
Journal of Number Theory
Journal of Primary Care and Community Health
Journal of Statistical Planning and Inference
Revista de Matemática: Teoría y Aplicaciones
Statistics Education Research Journal
Sustainability