



VANDERBILT CAREER CENTER

Mathematics

The **mathematics** major offers several types of emphasis. Students planning to continue in graduate study may choose an emphasis in pure mathematics. Students with other interests emphasize applied mathematics, statistics, or preparation for teaching. A solid background in mathematics provides an excellent foundation for several professions—law, medicine, or business. Students also go into fields such as government, industrial, research, technology, banking, and education.

***Vanderbilt sources for further information on the major field of study and requirements:**

VU Mathematics Department Web Site: <http://www.math.vanderbilt.edu/>

VU Mathematics Undergraduate Catalog:

<http://www.vanderbilt.edu/catalogs/undergrad/06ASCourses.pdf#math>

***For a list of other web sites, visit our *Resources by Field* web site.**

<http://www.vanderbilt.edu/career/resources/field>

Skills & Abilities Associated with this Major

Logical thinking	Numerical computation
Problem solving skills	Computer literacy
Analytical skills	Efficient
Statistical skills	Testing skills
Ability to work with others on a team	Systematizing skills
Quantitative skills	Organizational skills
Ability to analyze and interpret data	Critical thinking

Sample Related Career Titles

Software Design Engineer	Actuary
Aerospace Scientist	Computer Engineer
Medical Research Statistician	Statistician
Math Professor	Software Analyst
Math Teacher	Engineer Scientist
Computer Science Professor	Aerodynamics Specialist
Research Scientist	Air Traffic Control Specialist
Math Consultant	Consumer Credit/Loan Officer
Assistant Webmaster	Economist
Java Developer	Financial Investment Analyst
Hydrologist	Information Scientist
Treasury Management Specialist	Media Buyer
Meteorologist	Management Accountant
Compensation/Benefits Administrator	External Auditor
Tool & Die Maker	Contract Administrator
Astronomer	Robotics Programmer
Satellite Communications Specialist	Cryptographer
Mortgage Researcher	Physicist

Recent VU Mathematics Graduates (1 to 3 years after graduation)

Actuarial Analyst - Mercer HR Consulting	Actuarial Analyst - Towers Perrin
Analyst - Banc of America Securities	Algebra Readiness Coordinator - Charlottesville City Schools
Assistant Professor - Concordia College	APEX Associate - Medtronic Sofamor Danek
Biostatistician - UT Health Science Center in San Antonio	Associate - Council of Chief State School Officers
Financial Analyst - Kings Point Capital Management	Audio Engineer - Film Score Atlanta
Grad Student - Stanford	Claims Case Manager - Liberty Mutual
Graduate Student - University of California, Berkeley	Grad Student - Harvard University
Landscape Architect - DLZ	Graduate Student - Rice University
Marketing Education Teacher - Ross Infrastructure	Junior Financial Analyst - Kings Point Capital Management
Medical Student - UAB Medical School	Law Student - Washington University in St. Louis
Operations Specialist - EcoSure	Medical Student - Duke University Medical School
Pharmacy Technician - Priority Health Care	Pension Analyst - Bryan, Pendleton, Swats & McAllister LLC
Prevention Specialist - Family Services of Greater Houston	Quantitative Analyst - T. Rowe Price
Research Assistant Professor - Purdue University	Research Specialist - Genomic Sequencing Center
Retirement Benefits Specialist - Southwest Airlines	Stock Plan Administrator - UBS Financial Services
Senior Actuarial Associate - GEICO	Traffic Manager - Harcourt Achieve
Teacher - Pensacola High School	Underwriting Specialist - Aetna

Experienced VU Mathematics Graduates (3 + years after graduation)

Account Executive - American Telesis	Accounting Coordinator - Enterprise Rent-A-Car
Actuarial Associate - GEICO	Actuarial Analyst - Towers Perrin
Administrative Fellow - Duke University Hospital	Administrator - Deutsche Bank America
Assistant Professor of Mathematics - University of North Carolina-Asheville	Analyst - Accenture
Associate - PricewaterhouseCoopers	Assistant Professor - U.S. Military Academy
Associate Attorney - Lipshutz, Greenblatt & King, LLP	Assist Language Teacher JET Program - Consulate General of Japan
Claims Case Manager - Liberty Mutual	Assistant Professor - North Central College
Consultant - Deloitte Consulting	Clinician - Ventura County Behavioral Health
Graduate Student - Rice University	Financial Analyst - AIM Healthcare Services
Graduate Student - Vanderbilt University	Graduate Student - Stanford Graduate School of Business
Investment Banking Analyst - UBS PaineWebber	Infantry Officer Training - US Army
Legislative Assistant - U.S. Senator Fred Thompson	Jury Consultant - Juryscope, Inc.
Math Teacher - Ensworth School	Law Student - University of Virginia
Missile Launch Officer - United States Air Force	Medical Student - Duke University Med School
Research Assistant Professor - University of Illinois/Urbana-Champaign	Pediatric Resident - University of South Florida
Research Specialist - Genomic Sequencing Center	Project Director, Office of Clinical Effectiveness - University of Missouri Health Center
Senior Actuarial Associate - GEICO	Research Asst. Professor - Purdue University
Senior Research Analyst - BASES	Retirement Benefits Specialist - Southwest Airlines
Teacher - Wyoming Seminary	Senior Associate, PricewaterhouseCoopers
Trading Assistant - Stephens Inc.	Statistician - US Dept of Commerce, Census Bureau
Trader - UBS	Superintendent - Turner Construction Company

For information on these careers including the nature of the job, required education and training, salary information, professional associations and market outlook, visit the Occupational Outlook Handbook at <http://www.bls.gov/oco/>