

MAJOR TO CAREER GUIDE

B.A. Mathematics

College of Sciences

Mission of the College of Sciences

The College of Sciences offers programs in life sciences, chemistry, geoscience, mathematical sciences, physics and astronomy, and water management. The college has created a well-rounded curriculum by combining practical and empirical knowledge with scientific fundamentals and principles, which provides a solid foundation for a successful career in the sciences and other professional programs. The student-faculty relationship, hands-on research, and community service help ensure that students who graduate are prepared for whatever path they choose.

www.unlv.edu/sciences

About the Mathematics Degree

Mathematics is a powerful tool for solving practical problems and a highly creative field of study, combining logic and precision with intuition and imagination. The basic goal of mathematics is to reveal and explain patterns--whether the pattern appears as electrical impulses in an animal's nervous system, as fluctuations in stock market prices, or as fine detail of an abstract geometric figure. With today's powerful computers, mathematics is being used in science and engineering in unprecedented ways: to plan the path of a robot arm, to model oil reservoirs under the surface of the earth, to make and break secret codes

Value of B.A. Mathematics Major

Majoring in mathematics opens up a whole world full of career opportunities. Careers with roots in math range from animators to engineers, from biologists to physicians, from astronauts to cryptologists, and from forensic analysts to political scientists. Employers of every different type prize math majors. They value the skills that the study of math instills in students. Math majors who want to teach are in high demand in K-12 and higher education.

UNLV Academic Advising for Science Majors:

Academic Advisors who are eager to meet with students about their academic goals and to assist in constructing a plan for graduation. Advisors can also help students understand how their experiences at UNLV can lead to a career in their desired field.

College of Sciences Advising Center
Phone: 702-895-2077
Campus Location: MPE-A 130
www.unlv.edu/sciences/advising

Mathematics Career Options

- Actuarial Science
- Architecture
- Budget Analysis
- Cryptology
- Chemical Engineering
- Chemistry
- Climatology
- Economics
- Foreign Exchange Trading
- Market Research Analysis
- Mathematical Physics
- National Security Analysis

Professional and Student Organizations

Students are encouraged to get involved with these societies and groups early on!

UNLV Math Conference

<http://math.unlv.edu/MSCC.html>

CAOS <http://math.unlv.edu/CAOS1.html>

CAMS <http://math.unlv.edu/cams/index.html>

MATH Competitions

http://math.unlv.edu/math_comps.html

UNLV Math Problem Solving Workshop/Competitions

Pi Mu Epsilon Honor Society

<http://math.unlv.edu/pme/index.html>

Websites for professional math organizations:

National Science Foundation (NSF)

<http://www.nsf.gov/>

National Security Agency <http://www.nsa.gov/>

Mathworld, <http://mathworld.wolfram.com/>

SIAM- History of Numerical Analysis ,

<http://history.siam.org/>

Graduate Program: Mathematics M.S. and PhD

Our Graduate program consists of both masters of science and doctoral degrees. The department has four emphases within the department's Mathematics degree that in MS students may choose from: Math, Applied Math, Statistics, and Teaching Math. PhD students also have four emphases: Pure Math, Applied Math, Statistics, and Computational Math.

http://math.unlv.edu/study_grad.html

Helpful Career Information

Employers rate candidate soft skills/qualities in order of importance

- 1 Ability to verbally communicate with persons inside and outside the organization
- 2 Ability to work in a team structure
- 3 Ability to make decisions and solve problems
- 4 Ability to plan, organize and prioritize work
- 5 Ability to obtain and process information
- 6 Ability to analyze quantitative data
- 7 Technical knowledge related to the job
- 8 Proficiency with computer software programs
- 9 Ability to create and/or edit written reports
- 10 Ability to sell or influence others

Source: Job Outlook 2013

Courtesy of the National Association of Colleges and Employers

Visit the Career Occupational Handbook to learn more about a specific occupation:

<http://www.bls.gov/ooh/>

The OCH covers hundreds of occupations and describes: What They Do, Work Environment, How to Become One, Pay, and more. Each profile also includes BLS employment projections for the 2010–20 decade.

Career Exploration/Planning

FOCUS 2: UNLV's computerized assessment that profiles your interests, abilities, and values and helps you find a career that's right for you.

<http://hire.unlv.edu/careerAssessment.html>

Myers-Briggs Type Indicator (MBTI): Assessment designed to identify how you are energized, how you take in information, how you make decisions, and how you approach life.

<http://hire.unlv.edu/careerAssessmentMBTI.html>

Strong Interest Inventory: Generates an in-depth assessment of your interests among a broad range of occupations, work and leisure activities, and educational subjects.

<http://hire.unlv.edu/careerAssessmentStrong.html>

UNLV Career Services

Career Services encourages ALL UNLV students to take advantage of their services, which include:

- Assistance with developing a career plan and choosing a major
- Career counseling and guidance on building a RESUME
- Preparing for an interview, assistance with job searching and networking.

Phone: 702-895-3495

Campus Location: SSC-A 2nd Floor

<http://hire.unlv.edu/>

Internship Opportunities

UNLV's **Hire a Rebel** is a free, online recruiting system that helps students, alumni, and employers connect in a variety of ways.

Students can use **Hire a Rebel** to search for: job and internship listings, on-campus recruiting interviews, employer information sessions, resume book database, & dates for career fairs.

<http://hire.unlv.edu/careerLink.html>

MEDIAN SALARIES BY DISCIPLINE 2010-2012

Career	Salary Range	Median Salary
Mathematician	\$45,302 - \$140,508	\$77,900
Statistician	\$42,110 - \$118,995	\$73,000
High school math teacher	\$30,700 - \$70,287	\$45,100

www.payscale.com

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ADVISING
Collaborate to Graduate