# MAJOR TO CAREER GUIDE B.S. Physics

**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 relation-ship, 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 Physics Career**

Physics is the natural science that involves the study of matter and its motion through space and time, along with related concepts such as energy and force. More broadly, it is the general analysis of nature, conducted in order to understand how the universe behaves. Physics intersects with many interdisciplinary areas of research, such as biophysics and quantum chemistry, and the boundaries of physics are not rigidly defined. New ideas in physics often explain the fundamental mechanisms of other sciences, while opening new avenues of research in areas such as mathematics and philosophy. Physics also makes significant contributions through advances in new technologies that arise from theoretical breakthroughs.

#### Value of a Physics Major

Physics majors have a reputation for solid mathematical skills, strong problem solving ability, and good work ethic. It is these fundamental skills that allow them to work successfully in so many different areas. The starting salaries for physics bachelor's degrees are very competitive, and comparable to other fields of science and engineering, with private sector salaries. Unemployment rates among students with physics bachelor's degrees are very low. Some physics majors go on to medical school or law school and the following tables demonstrate that these students do exceptionally well on the MCAT and LSAT exams.

# **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

## **Physics Career Options**

- Nuclear Physics\*
- Geophysics\*
- Atomic, molecular, optics physics\*
- Astronomy\*
- Astrophysics\*
- Space Physics\*
- Physics Education (depending on grade level\*)
- Engineering Physics (requires masters in Engineering)\*
- Computer Science\*
- Government research

\*Additional education/certification required

## **Professional and Student Organizations**

Students are encouraged to get involved with these societies and groups early on!
UNLV Society of Physics Students
https://sites.google.com/site/unlvsps/
Sigma Pi Sigma (SPS)
http://www.sigmapisigma.org/

Websites for professional physics organizations:

American Physical Society http://aps.org/ American Association of Physics Teachers http://aapt.org/ American Astronomical Society http://aas.org/ American Institute of Physics http://www.aip.org/

# **Graduate Program: Physics M.S. and PhD**

Our department offers both the masters and doctoral degree in physics; both degrees require a research thesis. Before considering our physics department as a possible place to pursue an advanced degree, it is best to explore our faculty's research interests located on the Physics and Astronomy Home Page overlap with your interests.

http://physics.unlv.edu/jobs.html

# Helpful Career Information



# MEDIAN SALARIES BY DISCIPLINE 2010-2012

Career	Salary Range	Median Salary
Physicist	\$49,979 - \$139,451	\$91,000
Health Physicist	\$48,929 - \$132,647	\$77,600
Chief Medical Physicist	\$131,318 - \$225,433	\$196,000

www.payscale.com

# 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 2<sup>nd</sup> 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

