

PHYSICS

TEXAS LUTHERAN UNIVERSITY

Your Path To Engineering And So Much More



Bachelor of Science in Applied Physics | Bachelor of Science in Physics
Bachelor of Arts in Physics

$$v_f^2 = v_o^2 + 2a(x_f - x_o)$$

Why Major in Physics?



Physics Degree Programs

- **B.S. Applied Physics**
(with Optional Pre-Engineering Concentration)
- **B.A. Physics**
- **B.S. Physics**



Career Preparation

At TLU you will experience:

- Hands-on, faculty-mentored learning in a variety of high quality lab courses.
- Faculty-led, independent research opportunities as early as your freshman year.
- Development of professional communication skills as part of coursework.
- A strong student learning community driven by our nationally recognized chapter of the Society of Physics Students.
- Opportunities to participate in community service doing science outreach activities.

If you enjoy learning about how and why things work, aren't afraid of math, and want an interesting and fulfilling career, being a physics major is the first step on your path to a world of opportunities.

Whether you're interested in the world of engineering, studying the mysteries of the cosmos, or anything in between, our physics program is a great place to start.

Developing the skills most valued by employers is a focus of the TLU physics program. According to the American Institute of Physics, these qualities include:

- Critical Thinking
- Inventiveness and Superior Problem Solving
- Research and Investigation
- Communication (Technical Writing and Verbal)
- Teamwork and Collaboration
- Capacity to Learn New Technologies
- Mechanical and Mathematical Aptitude
- Strong Analytical & Applied Math Skills
- Computer Programming, Modeling, and Simulations
- Experience with Sophisticated Equipment



I Have a Bachelor's Degree in Physics. What's Next?

About **HALF** of TLU physics majors **GO TO GRADUATE SCHOOL** in engineering. Others pursue **physics, astronomy, math, business, or medicine.**

About **HALF** of TLU physics graduates **go directly into the workforce** – within the fields of **ENGINEERING** and **COMPUTER SCIENCE.**

You can get a really good job with a physics degree. With a median income of **\$74K**, the highest paying salaries go to **math and science majors.** Physics majors have one of the lowest unemployment rates.

Physics bachelor's degree recipients achieve the **highest scores** on the **MCAT and LSAT** – required exams for **medical or law school** admission.

Sources: AIP Statistical Research www.aip.org/statistics, CBS News "The 9 most lucrative college majors." October 2017

What Can I Do With A Degree in Physics?

The answer is *anything you want.*

The most common job titles held by individuals with a bachelor's degree in physics include:

- Application Engineer
- Associate Engineer
- Design Engineer
- Development Engineer
- Electrical Engineer
- Field Engineer
- IT Consultant
- Laser Engineer
- Manufacturing Engineer or Technician
- Mechanical Engineer
- Optical Engineer
- Physical Sciences Technician
- Physics or Science Teacher
- Process Engineer or Technician
- Product Engineer or Manager
- Programmer
- Project Engineer
- Research Engineer
- Software Engineer
- Systems Engineer or Analyst
- Technical Support Staff
- Test Engineer
- Web Developer



Live To Inspire: Our Alumni At Work



"The TLU Physics Department showed me how diverse this degree could be. I was constantly challenged to think critically about different topics and problems—a skill I've found very important in graduate school where I work in a condensed matter physics lab. Every day, we're required to consider our research from new perspectives and answer questions to move our experiments forward. I plan to pursue a career in academics at a primarily undergraduate university. My time at TLU was so significant and substantial to my development as a scientist. I want to expose other students to the sciences and similar experiences."

Vanessa Espinoza '17

Ph.D. Program in Chemistry
Rice University

Where Will You Find TLU Physics Majors?

Hewlett Packard LOCKHEED MARTIN
Duke University **SRC, Inc.**
TEXAS **PURDUE**
A & M **Rice UNIVERSITY** **Caterpillar** **UT Austin**
UNIVERSITY
SOUTHWEST RESEARCH INSTITUTE

For more information, visit tlu.edu/physics or contact Department Chair, Dr. Toni Sauncy, at tsauncy@tlu.edu or 830-372-6904.

Schedule a customized campus tour at tlu.edu/visit.



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