

WHY STUDY PHYSICS?

Physics students develop excellent analytical, quantitative and problem solving skills. They learn to synthesize and analyze large quantities of data and present their analysis clearly. These valuable skills can be applied to a wide range of careers, including: astronomy, computer science, education, engineering, healthcare, law enforcement, nanotechnology, renewable energies, research, robotics, space exploration, sports and games, technology and telecommunications.

Physicists are involved in finding solutions to many of our most pressing challenges – as well as studying atoms or making sense of the extra-terrestrial. Physicists also diagnose diseases, model the climate, design computer games, predict markets and design high-tech goods. Studying physics opens doors.

– Institute of Physics spokesperson

WHAT OUR GRADS SAY

“The advantage of getting trained in physics is hard to overstate. My physics education has taught me to think critically through every proposition I hear in science. **Physics at OBU has taught me to trace concepts back to the largest model and extend basic principles to complex applications.**

Physics will develop your mind and make you a more mature thinker. Choosing physics was definitely the best career choice I could have made.”

–*Tim Horton, 2014 graduate*

“The benefits that the OBU physics program provides are without equal. In all of my educational experience, including higher level International Baccalaureate physics and graduate-level technical and engineering courses, I can safely say **OBU Physics truly encompasses all areas of education conducive to a positive and rewarding college experience.** From the top down – faculty, coursework, facilities – Ouachita Physics delivers.”

–*Adam Wood, 2013 graduate*

Physics at Ouachita

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PHYSICS

at Ouachita Baptist University



OUACHITA
BAPTIST UNIVERSITY

PHYSICS AT OUACHITA

Ouachita's physics program seeks to prepare its graduates to become successful researchers, teachers and applied scientists in today's competitive marketplace. Our training allows students to develop widely sought-after skills such as critical thinking, problem solving and independent learning that they will use the rest of their lives.

TRAINING IN ALL MAJOR AREAS OF PHYSICS:

- Mechanics
- Electricity & magnetism
- Thermodynamics
- Quantum mechanics
- Modern physics
- Electrical circuits



PROGRAM QUICK FACTS

- 100% graduate school acceptance rate
- Over 50% of physics majors choose to double major
- Study abroad options available
- Learn outside the classroom at conferences and through student and professional organizations (Astronomy Club, Society of Physics Students)
- Independent research opportunities to fit your interests
- Research Experiences for Undergraduates (REU) program connects students with research locally and at partner institutions
- Student lounge available with after hours access
- Departmental scholarships available for upperclassmen

DEGREE PROGRAMS

- B.S. in Physics
- B.S. in Engineering Physics*
- B.S. in Biophysics
- B.A. in Physics
- B.A. in Applied Physics (*pair with second major*)
- B.A. in Physics/Math/Education (*teaching licensure*)
- Minor in Physics

*See "Can I study physics and still be an engineer?"

CAN I STUDY PHYSICS AND STILL BE AN ENGINEER?

YES! According to the American Physical Society, 32% of physics undergraduates go on to employment in an engineering position directly after graduation. Physics students often make better engineers because their advanced mathematics training and broad critical thinking and problem solving skills meet the challenges of an ever-changing technology landscape.

For students seeking an ABET-accredited engineering degree, we have two options:

1. Graduate from Ouachita with a major in engineering physics or applied physics and then pursue graduate studies in any ABET-accredited program.
2. Participate in Ouachita's Dual Degree Program and earn a B.S. in physics from Ouachita and a B.S. in engineering from an ABET-accredited partner school in 5-6 years (3 years at Ouachita and 2-3 years at the partner institution).



WHAT DO PHYSICS GRADS EARN?

The U.S. Department of Labor* estimated (in 2016) these median long-term annual wages:

▪ Physics	\$121,770
▪ Astronomy	\$110,380
▪ Electrical Engineering	\$98,620
▪ Biophysics	\$94,340
▪ Mechanical Engineering	\$89,800
▪ Civil Engineering	\$89,730
▪ Industrial Engineering	\$88,530
▪ Chemistry	\$80,820
▪ Microbiology	\$76,850

*www.bls.gov/oes/current/oes_nat.htm

WHERE HAVE OUACHITA PHYSICS GRADS GONE?

INDUSTRY

- Engineering (*Raytheon, Cameron Value & Measurement*)
- Mechanical Design (*Standard Fab*)
- NASA
- Telecommunications (*inCode*)

ENGINEERING GRADUATE PROGRAMS

- Mechanical Engineering (*Alabama-Birmingham*)
- Electrical Engineering (*Southern Methodist University*)
- Civil Engineering (*Arkansas*)

ACADEMICS

- Graduate Schools (*Arkansas, Stanford, Louisiana Tech*)
- High Schools (*public and private*)
- Overseas Programs (*CIEE Spain*)

