



College of Science

Department of Physics

Bachelor of Science in Physics

EDUCATE

ENGAGE

EXCEL

Beginning the Journey

- Review University requirements for physics majors.
- Investigate different flavors of physics majors.
- Take UNIV-SC 1131 and PHYS 1443 in first semester.
- Make first draft of your four-year plan (collaborate with a professor/advisor).

EDUCATE

Trailblazing the Path

- Meet physics advisor and map out your four-year schedule; revise as needed.
- Mix in core courses to maintain healthy schedule.
- Consider taking required science class(es) in summer to maintain schedule flexibility.

ENGAGE

- Consider working in physics clinic.
- Consider becoming an SI leader.
- Consider becoming a tutor.
- Participate in undergraduate research; get a faculty supervisor.
- Attend a Texas APS meeting.
- Consider joining UTEACH program.
- Join a club or service fraternity.

EXCEL

- Join the Honors College, if appropriate.

- Present a poster on your undergraduate research at ACES and/or Texas APS meetings.
- Apply for physics department scholarships, REUs, or other summer programs.
- Study abroad.
- Take a leadership position in a club.
- Represent the department in variety of activities.

Destination Graduation

EDUCATE

- Complete degree requirements.
- If you are planning to go to graduate school, consider taking graduate classes at UTA.
- Apply for graduation.
- Take GREs if appropriate.

ENGAGE

- Investigate career options.
- Visit the Career Development Center.

EXCEL

- Do an undergraduate or honors thesis.
- Give an oral presentation at Texas APS meeting.
- Get recommendation letters from your faculty mentor.
- Explore potential careers online.
- Apply for LSAMP or other programs.
- Write a resume and do mock interviews.
- Visit and apply for graduate schools.



MAVERICK ADVANTAGE

Be Bold. Be Ambitious. Set Yourself Apart.



CAREER DEVELOPMENT

- Internships
- Fellowships
- Assistantships
- Job Fairs
- Scholarships
- Peer Academic Leadership



GLOBAL ENGAGEMENT

- Study Abroad
- Global Mavericks Program
- International Week
- Language Exchange Program
- Global Grounds



LEADERSHIP DEVELOPMENT

- Mentorships
- Student Organizations
- Peer Education
- Volunteering
- Tutoring and Coaching
- Student Governance



COMMUNITY ENGAGEMENT

- Service Learning
- UTA Volunteers
- Camps for High School Students



UNDERGRADUATE RESEARCH

- Undergraduate Research Assistantship
- Contact your professors for other opportunities

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What career options do I have with this major?

- Accelerator Operator
- Applications Engineer
- Data Analyst
- Design Engineer
- High School Physics Teacher
- IT Consultant
- Lab Technician
- Laser Engineer
- Optical Engineer
- Research Associate
- Software Developer
- Systems Analyst
- Technical Specialist
- Web Developer

Workforce Skills

- Communication: Develop and articulate ideas clearly and effectively across all mediums, including but not limited to written, oral, and digital communication.
- Creativity/Ingenuity: Synthesize existing ideas and concepts in innovative and creative ways to develop new ways of thinking or working; engage in divergent thinking and risk-taking.
- Professionalism: Display effective work habits, high integrity, and ethical behavior. Possess the ability to demonstrate skills confidently and apply talents to achieve professional success.

Career Readiness

- Analyzing data and performing calculations
- Preparing and presenting research proposals
- Communication skills
- Organizing ideas
- Collaborating with a team
- Problem solving skills
- Computer programming
- Project development skills
- Designing specialized equipment
- Reviewing literature
- Developing computer simulations
- Developing theories and testing hypotheses
- Integrating theoretical and experimental understanding

Take Action

- Explore workforce skill development through on and off-campus activities.
- Engage with the UTA Career Development Center at uta.edu/careers.
- Meet with a career consultant
- Network with employers
- Discover internships and co-ops
- Apply for on-campus employment
- Join Handshake, our career services platform
- Participate in career development programs

Visit www.uta.edu/student-success/major_maps for the latest version of this major map.

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