



College of Science

Department of Physics

Bachelor of Science in Physics - Engineering Emphasis

EDUCATE

ENGAGE

EXCEL

Beginning the Journey	Trailblazing the Path	Destination Graduation
- Review University requirements for physics majors. - Investigate different flavors of physics majors. - Verify that your math background is sufficient for a physics major (calculus level). - Make first draft of your four-year plan (collaborate with a professor/advisor).	- 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.	- Complete degree requirements. - Apply for graduation.
- Join SPS and/or Olympic Mons. - Explore undergraduate research possibilities. - Discover the library's resources. - Attend Planetarium shows. - Attend colloquial of interest.	- 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.	- Investigate career options. - Visit the Career Development Center.
- Join the Honors College, if appropriate. - Pursue summer internship.	- 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.	- 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.



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
- Lectures

LEADERSHIP DEVELOPMENT

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

COMMUNITY ENGAGEMENT

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

UNDERGRADUATE RESEARCH

- Undergraduate Research Assistantship
- Contact your professors for other opportunities



College of Science

Department of Physics

Bachelor of Science in Physics - Engineering Emphasis

What career options do I have with this major?

- Accelerator Operator
- Applications Engineer
- Data Analyst
- Design Engineer
- Graduate School
- Industry
- IT Consultant
- Lab Technician
- Laser Engineer
- Teacher

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
- Communication skills: Collaborating with a team/summarizing research outcomes
- Creating and developing computer simulations/designing equipment to measure relevant quantities
- Problem-solving skills: Breaking complex problems into manageable tasks
- Technical skills: Computer programming, equipment design, electronics design, and repair/imaging
- Research/Project development skills: Reviewing literature and organizing ideas; developing theories and testing hypotheses; integrating theoretical understanding; developing new approaches; preparing, writing, and presenting research proposals.

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.

College of Science

502 Yates Street Box 19059, Arlington

P: 817.272.2266

F: 817.272.3637 | uta.edu

