

FAQ *frequently asked questions about* Tennessee Tech University

■ Secondary Education-Physics

What is Secondary Education - Physics?

Secondary Education - Physics is meant to encourage individuals to enter the teaching profession or educationally related agencies, prepare students for leadership, teaching, and service roles in public schools and other educational services, and to promote active participation in academic, social, civic, and cultural programs within the university and beyond.

Career Opportunities in Secondary Education - Physics

The licensure program helps prepare teachers for teaching physics in grades seven through 12.

Salary Trends

According to a September 2000 survey by the National Association of Colleges and Employers, the average beginning annual salary for teachers with a bachelor's degree in secondary education was \$26,738.

High School Preparation

All Tennessee Tech freshman applicants are considered within a competitive admission process for fall, spring and summer semesters. The primary criteria for admission are the high school performance as indicated by class rank and grade point average, and performance on the ACT. Upon admission to the university, students can declare a major in Secondary

Education - Physics within the College of Education.

How to Major in Secondary Education - Physics at Tennessee Tech

For students interested in majoring in Secondary Education - Physics, the first step is to see an advisor in the Department of Curriculum and Instruction in Bartoo Hall (Room 311). An advisor will work with the student to set up a program of study and plan out course work for the major. Full admission requires the completion of 30 semester hours of credit, exclusive of ADP courses, and including Writing I and II, General Psychology or Educational Psychology or Introduction to the Teaching Profession. A minimum quality point average of 2.50 is required, exclusive of ADP courses. In addition, students must attain the following scores on the ETS-Pre-Professional Skills Test of the PRAXIS I (173-mathematics, 174-reading, 173-writing). Students having achieved an ACT composite score of 22 or a combined score of 1020 on the recentered SAT are exempt from the PRAXIS I or PPST.

Secondary Education - Physics Requirements

Students majoring in Secondary Education - Physics complete requirements for a Bachelor of Science in Education degree in addition to all

university requirements. Students must file an application for admission to the teacher education program with the College Certification Analyst at the beginning of the first semester after the completion of 30 semester hours of credit. Students must meet the standards for full admission to the teacher education program and be approved by the University Teacher Education Committee prior to becoming eligible to enroll for upper division professional courses in education. The teacher education program includes a variety of laboratory experiences including observations in schools or other agencies, case studies, video teaching, tutorials, internships, and student teaching. Student teaching is the culminating experience in the education program for teachers. In addition to full admission to the teacher education program, admission to student teaching requires an overall quality point average of 2.50, including a 2.00 average in the major teaching field. Students must also pass the PRAXIS II prior to student teaching, as well as the satisfactory completion of the Junior English Qualifying Exam. Teacher education students may be required to meet revisions in the various curricula because of changes in the standards of the National Council for Accreditation of Teacher Education, the Tennessee Board of Regents, or the State Department of Education.

About Tennessee Tech

Tennessee Tech University offers around 40 bachelor's degree programs in the College of Arts and Sciences, the College of Agriculture and Human Ecology, the College of Business Administration, the College of Education, the College of Engineering, and the School of Nursing. Students are able to earn graduate-level degrees in some 15 programs, including the Ph.D. in engineering, environmental sciences, and education.

TTU is also proud to host two chairs of excellence in business and three multi-million dollar "Accomplished Centers for Excellence" in engineering. Each center supports the work of faculty members and researchers who have earned national and international reputations in their fields. They also benefit students by providing excellent opportunities for research and upper-level study. The university is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools, which has awarded TTU three commendations.

Beyond that, there is a commitment at TTU – commitment to see students, who are the very heart of the university, achieve their goals. As proof of that commitment, TTU consistently posts the highest student graduation rate among Tennessee Board of Regents universities. TTU also typically ranks highest in student satisfaction, alumni satisfaction, and financial aid awards.

For More Information

Contact: Larry Peach, Chairperson/ Professor, Department of Curriculum and Instruction, 311 Bartoo Hall, Box 5042, Cookeville, TN 38505; (931) 372-3181; e-mail lpeach@tntech.edu.

Sample Curriculum

Education:

Introduction to the Teaching Profession	1 hour
Introductory Field Experience in Secondary Education	1 hour
Educational Psychology	3 hours
School and Society	4 hours
Instructional Technology I and II	5 hours
Evaluation and Guidance	3 hours
Middle Level Curriculum	2 hours
Field Experiences in Education	1 hour
Materials and Methods of Teaching the Sciences	3 hours
Student Teaching I and II	12 hours
Student Teaching Seminar	3 hours

Mathematics:

Calculus I, II, III	13 hours
Differential Equations	3 hours

History:

American History I and II	3 hours
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Psychology:

General Psychology	3 hours
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Reading:

Teaching Reading in the Content Areas	2 hours
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English:

Writing I and II	6 hours
British Literature I, II, or World Literature	3 hours
American Literature	3 hours

Physical Education or Military Science	2 hours
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Select one:

Art Appreciation, Music Appreciation, or Arts and Ideas	3 hours
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Health and PE:

First Aid, Safety, and CPR	2 hours
School Health Program	2 hours

Speech:

Fundamentals of Public Speaking	3 hours
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Special Education:

Persons with Disabilities in the Regular Classroom	2 hours
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Principles of Microeconomics, Physical Geography, American Government, Introduction to Sociology, or Introduction to Anthropology	3 hours
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General Biology I, II, General Chemistry I, II, or Physical Geography, Historical Geography	8 hours
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Physics or Math option:

See catalog	20-27 hours
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Physics:

General Physics I	3 hours
General Physics II	3 hours
General Physics Laboratory	1 hour
General Physics Laboratory II	1 hour
Modern Physics	3 hours
Mathematical Physics	3 hours
Statistical Thermal Physics	3 hours
Selected Topics in Physics	2 hours