

# TECHNOLOGY EDUCATION (B.S.)

## Bachelor of Science Program

Program Code: BS-ED

Major Code: TED

## Career, Technical, and Science Education Department

Bacon Hall 112

(716) 878-4717

[ctse.buffalostate.edu/](https://ctse.buffalostate.edu/) (<https://ctse.buffalostate.edu/>)

Accredited: Council for the Accreditation of Educator Preparation (CAEP) (formerly NCATE)

**Enrollment in all teacher education programs follows the guidelines for "Admission to Teacher Education Programs" found in this catalog. Applicants who do not yet meet all admissions criteria should consult with the department.**

**Professional Licensure:** This program leads to a recommendation for NYS certification; please check for certification requirements in all other states (<https://academicaffairs.buffalostate.edu/professional-licensure-disclosures/>)

The technology education program prepares students to teach technology and the technological systems utilized in problem solving. The four systems emphasized are construction, manufacturing, communication, and transportation. The program is laboratory oriented, teaching the important role of engineering a product or service through selecting and systemizing knowledge for the solution of a problem. Graduates are recommended for an initial certificate to teach technology education in grades K–12.

Candidates should consult the Teacher Certification website for current seminars and workshops. <https://teachercertification.buffalostate.edu/seminars-and-workshops> (<https://teachercertification.buffalostate.edu/seminars-and-workshops/>)

## Program Requirements

Code	Title	Credit Hours
General Education 23 Requirements ( <a href="http://ecatalog.buffalostate.edu/undergraduate/collegewide-degree-requirements-baccalaureate-degrees/#IF_Courses">http://ecatalog.buffalostate.edu/undergraduate/collegewide-degree-requirements-baccalaureate-degrees/#IF_Courses</a> )		
33 credit hours		33
<b>Technology Major Requirements (30 credit hours)</b>		
TEC 101	TECHNICAL DRAWING	3

TED 123	PRINCIPLES OF MANUFACTURING	3
TEC 201	MATERIALS PROCESSING	3
TED 300	CONSTRUCTION SYSTEMS	3
TEC 302	CAD/CAM (COMPUTER AIDED DRAFTING/COMPUTER AIDED MANUFACTURING)	3
TEC 311	MATERIALS SCIENCE AND TESTING	3
TEC 314	ELECTROMECHANICS	3
TEC 319	TECHNOLOGY AND VALUES	3
TED 349	COMMUNICATIONS SYSTEMS	3
TED 361	TRANSPORTATION SYSTEMS	3
<b>Professional Sequence Requirements (36 credit hours)</b>		
CTE 301	FOUNDATIONS OF CAREER AND TECHNICAL EDUCATION	3
CTE 302	CURRICULUM AND EVALUATION IN CAREER AND TECHNICAL EDUCATION	3
CTE 303	INSTRUCTIONAL STRATEGIES IN CAREER AND TECHNICAL EDUCATION	3
CTE 306	CLASSROOM/LABORATORY MANAGEMENT	3
CTE 311	CAREER MENTORING	3
CTE 402	ASSESSMENT IN CAREER AND TECHNICAL EDUCATION	3
CTE 404	METHODS OF TEACHING CAREER AND TECHNICAL SUBJECTS	3
CTE 421	CAREER AND TECHNICAL EDUCATION FOR STUDENTS WITH SPECIAL NEEDS	3
TED 450	STUDENT TEACHING IN TECHNOLOGY EDUCATION	6
TED 451	STUDENT TEACHING IN TECHNOLOGY EDUCATION II	6
<b>Required in Other Fields (13 credit hours)</b>		
EDU 416	TEACHING LITERACY IN MIDDLE AND SECONDARY SCHOOLS	3
MAT 124	FUNCTIONS AND MODELING II	3
PHY 107	GENERAL PHYSICS I	4
SPF 303	EDUCATIONAL PSYCHOLOGY: MIDDLE AND SECONDARY EDUCATION	3

<b>All College Electives</b>	
8-15 credit hours	8-15
<b>Total Credit Hours</b>	<b>120</b>