

MECHANICAL ENGINEERING TECHNOLOGY (B.S.)

Evening study available.

BS-SP MET

Engineering Technology Department Bachelor of Science (HEGIS 0925)

The Mechanical Engineering Technology program is accredited by the Engineering Technology Accreditation Commission of ABET, (<http://www.abet.org>)

Technology Building 126
(716) 878-6017

engineeringtechnology.buffalostate.edu (<https://engineeringtechnology.buffalostate.edu/>)

The bachelor's degree in the mechanical engineering technology program is designed to give the student a broad education in the areas of mechanical design, mechanics, stress analysis, thermosciences, and manufacturing. Graduates are in high demand and are employed by manufacturing companies, consulting firms, government agencies, testing laboratories, and other enterprises that require people with strong mechanically oriented backgrounds. Graduates work as mechanical designers developing new products, manufacturing supervisors solving problems of producing these products for performance or quality, as plant engineers improving or maintaining factories, and in technical sales selling these products. The duties of technologists may involve overseeing installation, operation, maintenance, and repair to ensure that machines and equipment are installed and functioning according to specifications; specifying system components; supervising drafters in developing the design of products; testing and evaluating products; and or/developing cost estimates.

¹ Technology Accreditation Commission/Accreditation Board for Engineering and Technology Inc. (TAC/ABET)
111 Market Place, Suite 1050
Baltimore, MD 21202
(410) 347-7700

Program Requirements

Code	Title	Credit Hours
Intellectual Foundations Requirements (http://ecatalog.buffalostate.edu/undergraduate/collegewide-degree-requirements-baccalaureate-degrees/#IF_Courses)		
33-39 credit hours		33-39
Mechanical Engineering Technology Major Requirements (51 credit hours)		

ENT 213	COMPUTER METHODS FOR TECHNOLOGISTS	3
ENT 301	MECHANICS I	3
ENT 302	MECHANICS II	3
ENT 303	KINEMATICS	3
ENT 311	THERMODYNAMICS	3
ENT 312	FLUID MECHANICS	3
ENT 314	SOLID MODELING	3
ENT 331	ELECTRICAL CIRCUITS AND DEVICES	3
ENT 335	INDUSTRIAL ELECTRONICS	3
ENT 371	ELECTRIC MACHINES	3
ENT 401	STRESS ANALYSIS	3
ENT 402	SHOCK AND VIBRATION ANALYSIS	3
ENT 411	HEAT TRANSFER	3
ENT 420	PROFESSIONAL EXPERIENCE IN MECHANICAL ENGINEERING TECHNOLOGY	1
ENT 421	MACHINE DESIGN I	3
ENT 422	MACHINE DESIGN II	3
TEC 101	TECHNICAL DRAWING	3
TEC 201	MATERIALS PROCESSING	3
TEC 311	MATERIALS SCIENCE AND TESTING	3

Electives (0-10 credit hours)

The following accreditation requirements can be included in the Intellectual Foundations requirements and electives: 0-10

CHE 101	GENERAL CHEMISTRY I or CHE 111 FUNDAMENTALS OF CHEMISTRY I	
CHE 102	GENERAL CHEMISTRY II or CHE 111 FUNDAMENTALS OF CHEMISTRY I	
CIS 151	COMPUTER-BASED INFORMATION PROCESSING I	

Select one of the following:

MAT 202	INTRODUCTION TO LINEAR ALGEBRA	
MAT 241	COMPUTATIONAL TOOLS FOR APPLIED MATHEMATICIANS I	
MAT 270	DISCRETE MATHEMATICS	
MAT 311	INTRODUCTORY PROBABILITY AND STATISTICS (or other math course by advisement)	
MAT 126	APPLIED CALCULUS I or MAT 161 CALCULUS I	

MAT 127	APPLIED CALCULUS II
or MAT 110	CALCULUS II
MAT 315	DIFFERENTIAL EQUATIONS
or ENT 300	MATHEMATICS APPLICATIONS IN ENGINEERING TECHNOLOGY
PHY 107	GENERAL PHYSICS I
or PHY 110	UNIVERSITY PHYSICS I
PHY 108	GENERAL PHYSICS II
or PHY 110	UNIVERSITY PHYSICS II
SPC 205	INTRODUCTION TO ORAL COMMUNICATION

All College Electives

30-36 credit hours	30-36
Total Credit Hours	120