

Mechanical and Manufacturing Engineering Technology

BG PERSPECTIVE (BGP) REQUIREMENTS:

Course _____ Credits _____

Must complete at least 1 course in each of the following:

English Composition and Oral Communication

Quantitative Literacy

Must complete at least 2 courses in each of the following:

Humanities and the Arts

Natural Sciences - at least one Lab Science required

Social and Behavioral Sciences

Complete total required BGP credit hours by selecting courses from any of the above categories:

UNIVERSITY REQUIREMENTS

Note: Designated courses in the Humanities and the Arts, and the Social and Behavioral Sciences domains may be used to fulfill both a BGP requirement and one of the following university requirements:

Cultural Diversity in the U.S. _____

International Perspective _____

Composition Requirement:

_____ WRIT 1120 Research Writing _____

Total BGP Credits: Must be at least 36

Matriculation courses are shown in **bold print**.

** These courses may be used to meet BG Perspective requirements, but hours are counted only once.

*** Consider taking courses from technical areas (for example, ENGT, QS, ECET, ROBO, CS, etc.) TECH 4890 can be used as an elective. Non-technical electives may be used upon advisement.

QS courses are offered online only.

See Undergraduate Catalog

Courses Required for Major

Cooperative Education

_____ TECH 2890 Co-op	1
_____ TECH 3890 Co-op	1

Engineering Technology Core

_____ ECET 1960 Electrical-Electronics Sys	3
_____ ECET 3100 Programmable Logic Controllers	3
_____ ENGT 1100 Computer Aided Design	3
_____ ENGT 2100 Solid Modeling	3
_____ ENGT 2200 Manufacturing Processes	3
_____ ENGT 2250 Machine Design	3
_____ ENGT 2300 Fluid Power Transmission	3
_____ ENGT 2400 Statics	3
_____ ENGT 2450 Strength of Materials	3
_____ ENGT 2480 Dynamics	3
_____ ENGT 3200 CAM & Rapid Prototyping	3
_____ ENGT 3400 Props & Test. of Eng. Materials	3
_____ ENGT 3480 Thermodynamics	3
_____ ENGT 3500 Metrology and GD&T	3
_____ ENGT 4000 Adv Modeling, Sim & Analysis	3
_____ ENGT 4250 Manufacturing Design & Operations	3
_____ ENGT 4500 Senior Capstone Project	3
_____ QS 3550 Foundations of Lean	3
_____ QS 3850 Core Tools of Quality Systems	3
_____ ROBO 2080 Industrial Robotics	3

Technical Electives***

_____ Electives by Advisement	10-12 Hrs
	10-12

Other Required Courses

University

_____ ENG 3880	32-33 Hrs
_____ TECH 3020**	3
_____ TECH 4400	3
_____ MATH 1280** or Equiv	5
_____ MATH 1310** or 1340**+1350	5-6
_____ PHYS 2010** or 2110**	5
_____ PHYS 2020** or 2120**	5
_____ COMM 1020**	3

Business

_____ STAT 2000** or higher	9 Hrs
_____ ECON 2000 ** or 2020**	3
_____ MGMT 3050	3

Total Minimum Program Hours 122

Important information on the back.

College of Technology, Architecture and Applied Engineering

General Information for all students in the College

In addition to completing all requirements on the checksheet, students are responsible for:

Matriculation

Full admittance to a major in a College of Technology, Architecture and Applied Engineering program will become effective when a student has:

1. Attained an overall BGSU grade point average of at least 2.25 for all courses taken prior to applying for matriculation and a 2.5 in courses in the major;
2. Completed a cooperative education experience—TECH 2890 (Aviation Studies, Architecture, LDT and QS majors are exempt from this requirement);
3. Completed with a grade of “C” or better in all bold courses , as specified on program checksheets;
4. Applied for matriculation. Applications are available from the Undergraduate Student Services Office.

The steps listed above must be completed before students will be permitted to register for 3000- and 4000-level courses in the College of Technology, Architecture and Applied Engineering.

Co-op

All students in the College are required to complete 2 or 3 co-ops, depending on your major. **THIS IS A COURSE.** It carries credit and is graded. It is full time (40 hrs/week) for the entire semester or part-time (20 hrs/week) for two consecutive semesters, paid and must be directly related to your major. All students **MUST** complete the Co-op Orientation available in Canvas.

Email

Official University email accounts are required for all BGSU students. Official BGSU email addresses are in the form: BGSUusername@bgsu.edu. At the time of admission or initial registration, all students will receive a bgsu.edu email account. Students may anticipate that official University correspondence will be sent to this email account and they should access BGSU email on a regular and timely basis. All correspondence from Undergraduate Student Services will be sent to your BGSU email.

Checksheet

The checksheet should be used in conjunction with the degree audit and advising to track progress toward degree completion.