

## 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.

\*\*\* Any ENGT or QS courses can be used as total of 6 credit hours electives based on faculty advisement; the courses shown are examples.

TECH 4890 can be used as an elective.

## QS courses are offered online only.

# See Undergraduate Catalog

### Courses Required for Major

#### Cooperative Education

_____ <b>TECH 2890 Co-op</b>	<b>4</b>
_____ TECH 3890 Co-op	4

#### Engineering Technology Core

_____ <b>ECET 1960 Electrical-Electronics Sys</b> or	<b>3</b>
_____ ECET 1910 Energy, Power, Instrument & Cont	
_____ ECET 3100 Programmable Logic Controllers	3
_____ <b>ENGT 1020 Intro to Engineering Technology</b>	<b>3</b>
_____ <b>ENGT 1100 Computer Aided Design</b>	<b>3</b>
_____ ENGT 2100 Solid Modeling	3
_____ <b>ENGT 2200 Manufacturing Processes</b>	<b>3</b>
_____ 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	<b>4-6 Hrs</b>
	4-6

#### Other Required Courses

##### University

_____ <b>ENG 3880 (or ENG 2900)</b>	<b>27-30 Hrs</b>
_____ TECH 3020**	3
_____ <b>MATH 1280** or 1300** or Equiv</b>	<b>3-5</b>
_____ MATH 1310** or 1340**+1350	5-6
_____ <b>PHYS 2010** or 2110**</b>	<b>5</b>
_____ PHYS 2020** or 2120**	5
_____ COMM 1020**	3

##### Business

_____ <b>STAT 2000** or higher</b>	<b>9 Hrs</b>
_____ ECON 2000 ** or 2020**	<b>3</b>
_____ 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 checklist, 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 check sheets;
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 checklist should be used in conjunction with the degree audit and advising to track progress toward degree completion.