B.S. in Technology - Mechatronics Engineering Technology

**BG PERSPECTIVE (BGP) REQUIREMENTS:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Must complete at least 1 course in each of the following:</td>
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<tr>
<td>English Composition and Oral Communication</td>
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</tbody>
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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

+ These must be in the management/business area.

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

### Courses Required for Major

**Cooperative Education**

- TECH 2890 Co-op 4
- TECH 3890 Co-op 4
- TECH 4890 Co-op 4

**Concentration**

- ROBO 1010 Sensors & Actuators 3
- ROBO 2080 Industrial Robotics & Automation 3
- ROBO 4500 Senior Design Project 3
- ECET 1960 Electrical-Electronic Systems 3
- ECET 2400 Electric Circuits 3
- ECET 2410 Electronic Circuits 3
- ECET 2490 Dig Elec Comp & Sys (prereq ECET 1960) 3
- ECET 3000 Electrical Machinery 3
- ECET 3100 Prog Logic Controllers 3
- ECET 3490 Digital Computer Analysis 3
- ECET 4410 Instrumentation 3
- ECET 4530 Dig Comp Proc Cnt 3
- ENGT 1100 Computer Aided Design 3
- ENGT 2100 Solid Modeling 3
- ENGT 2200 Met Mtl's & Proc 3
- ENGT 2400 Stat/Strength of Mat 3
- ENGT 2480 Dynamics 3
- ENGT 3480 Thermodynamics 3
- ENGT 4000 Adv. Modeling, Sim & Analysis 3
- QS 3550 Foundations of Lean OR 3
- QS 3710 Six Sigma Systems 3

**Other Required Courses**

- CS 2100 3
- COMM 1020** 3
- MATH 1280** 5
- MATH 1310** or MATH 1340** & 1350 6
- PHYS 2010** 5
- PHYS 2020** 5
- TECH 3020 3

**Business & Management**

- ECON 2000** 3
- MATH 2470 3
- Elective Non-Tech 3

Notes:
- Matriculation courses are shown in **BOLD PRINT** and must be completed with a grade of C or better.
- Due to the cooperative education requirement, in order to complete this program in four years, it is necessary for the student to either enroll in co-op hours or coursework during the summer as well as during the academic year. If a student is not able to do so, this program will take five years to complete.

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.

**Checksheets**

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