

**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

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

# See the Undergraduate Catalog, [www.bgsu.edu/catalog](http://www.bgsu.edu/catalog)

**Notes:**

1. Matriculation courses are shown in **BOLD PRINT** and must be completed with a grade of C or better.

2. Students must take at least 30 hours of natural science and math/stat courses to meet ABET requirements.

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 the student is not able to do so, this program may take more than four years to complete.

**Courses Required for Major**

**Cooperative Education** **4 Hrs**  
\_\_\_\_ TECH 2890 Co-op 4

**Program Core Courses** **48 Hrs**

\_\_\_\_ **SYE 1010 Introduction to Systems Engineering** **3**  
\_\_\_\_ **SYE 2010 Engineering Economics** **3**  
\_\_\_\_ SYE 3010 Systems Simulation and Modeling 3  
\_\_\_\_ SYE 3020 Workplace Design 3  
\_\_\_\_ SYE 3030 Production and Material Handling Systems 3  
\_\_\_\_ SYE 4010 Facility Design and Plant Layout 3  
\_\_\_\_ SYE 4020 Logistics Transportation Systems 3  
\_\_\_\_ SYE 4030 Logistics Distribution Systems 3  
\_\_\_\_ SYE 4990 Senior Capstone Project 3  
\_\_\_\_ ECET 2400 Electric Circuits 3  
\_\_\_\_ ENGT 1100 Computer Aided Design 3  
\_\_\_\_ ENGT 2100 Solid Modeling 3  
\_\_\_\_ ENGT 2400 Statics 3  
\_\_\_\_ ENGT 2480 Dynamics 3  
\_\_\_\_ QS 3550 Foundations of Lean 3  
\_\_\_\_ QS 4600 Synchronous Quality Printing 3

**Business & Management Courses** **6 Hrs**

\_\_\_\_ MGMT 3000 Integrated Operations & Supply Chain Mgmt 3  
\_\_\_\_ MGMT 3050 Principles of Organization & Management 3

**Other Required Courses** **41-46 Hrs**

\_\_\_\_ CS 2010 Programming Fundamentals 3  
\_\_\_\_ MATH 2470 Fundamentals of Statistics 3  
\_\_\_\_ MATH 3430 Computing with Data 3  
\_\_\_\_ **MATH 1310 Calculus and Analytic Geometry\*** **OR** **5-6**  
\_\_\_\_ **MATH 1340 Calculus and Analytic Geometry IA\* AND**  
\_\_\_\_ **MATH 1350 Calculus and Analytic Geometry IB\***  
\_\_\_\_ MATH 2320 Calculus & Analytic Geometry II **OR** 3-5  
\_\_\_\_ MATH 2910 Applied Engineering Mathematics with Applications  
\_\_\_\_ PHYS 2010 College Physics I\* **OR** 5  
\_\_\_\_ PHYS 2110 University Physics I\*  
\_\_\_\_ PHYS 2020 College Physics II\* **OR** 5  
\_\_\_\_ PHYS 2120 University Physics II\*  
\_\_\_\_ TECH 3020 Technology Systems in Societies\* 3  
\_\_\_\_ ENG 3880 Introductory Technical Writing 3  
\_\_\_\_ CHEM 1230 General Chemistry I\* **AND** 4-5  
\_\_\_\_ CHEM 1240 General Chemistry I Laboratory\* **OR**  
\_\_\_\_ BIOL 2040 Concepts in Biology I\*  
\_\_\_\_ CHEM 1270 General Chemistry II **AND** 4-5  
\_\_\_\_ CHEM 1280 General Chemistry II Laboratory **OR**  
\_\_\_\_ BIOL 2050 Concepts in Biology II\*

**Electives (by advisement)** **5-7 Hrs**

\_\_\_\_ Elective 1 (Any 3000 or higher SYE/TECH or MGMT Courses) 3  
\_\_\_\_ Elective 2 (Any 3000 or higher SYE/TECH or MGMT Courses) 3  
\_\_\_\_ TECH 3890 Co-op 4  
\_\_\_\_ SYE 4700 Study Abroad Experience 3  
\_\_\_\_ TECH 4900 Problems in Technology 1-3

**Total Minimum Program Hours** **122 Hrs**

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 with a grade of "C" or better in all bold courses, as specified on program check sheets;
3. 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.

#### **Program Core Courses**

1. Must meet prerequisite requirements before taking SYE core courses.
2. At least one cooperative education experience - TECH 2890 or TECH 3890 must be taken.
3. Grade of "C" or better in all SYE core courses are required.

#### **Co-op**

All students in the College are required to complete 1-3 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.