

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 with Lab Component

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 - Academic 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

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.

3) 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 may take more than four years to complete.

Courses Required for Major

Cooperative Education **1 Hr**
_____ TECH 3890 -Co-op 1

Program Core Courses **48 Hrs**

_____ **SYE 1010 -Intro 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 Planning 3

Business & Management Courses **6 Hrs**

_____ MGMT 3000-Integrated Operations & Supply Chain Management 3

_____ MGMT 3050- Principles of Organization and 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* or MATH 1340* & 1350*- Calculus & Analytic Geometry** **5-6**

_____ MATH 2320- Calculus & Analytic Geometry II or MATH 2910- Applied 3-5

_____ Engineering Mathematics with Applications 3-5

_____ PHYS 2010 -College Physics I* or PHYS 2110 -University Physics I* 5

_____ PHYS 2020-College Physics II* or PHYS 2120 -University Physics II* 5

_____ TECH 3020 -Technology Systems in Societies* 3

_____ ENG 3880 -Introductory Technical Writing 3

_____ CHEM 1230* & 1240* or BIOL 2040* 4-5

_____ CHEM 1270 & 1280 or BIOL 2050* 4-5

Electives **8-10 Hrs**

Consider taking SYE 4700-Study Abroad Experience, QS, TECH, MGMT, ECET, ENGT, ROBO, or other courses by advisement.

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 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 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 3890 or 4890 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 the 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.