

# B.S. in Systems Engineering

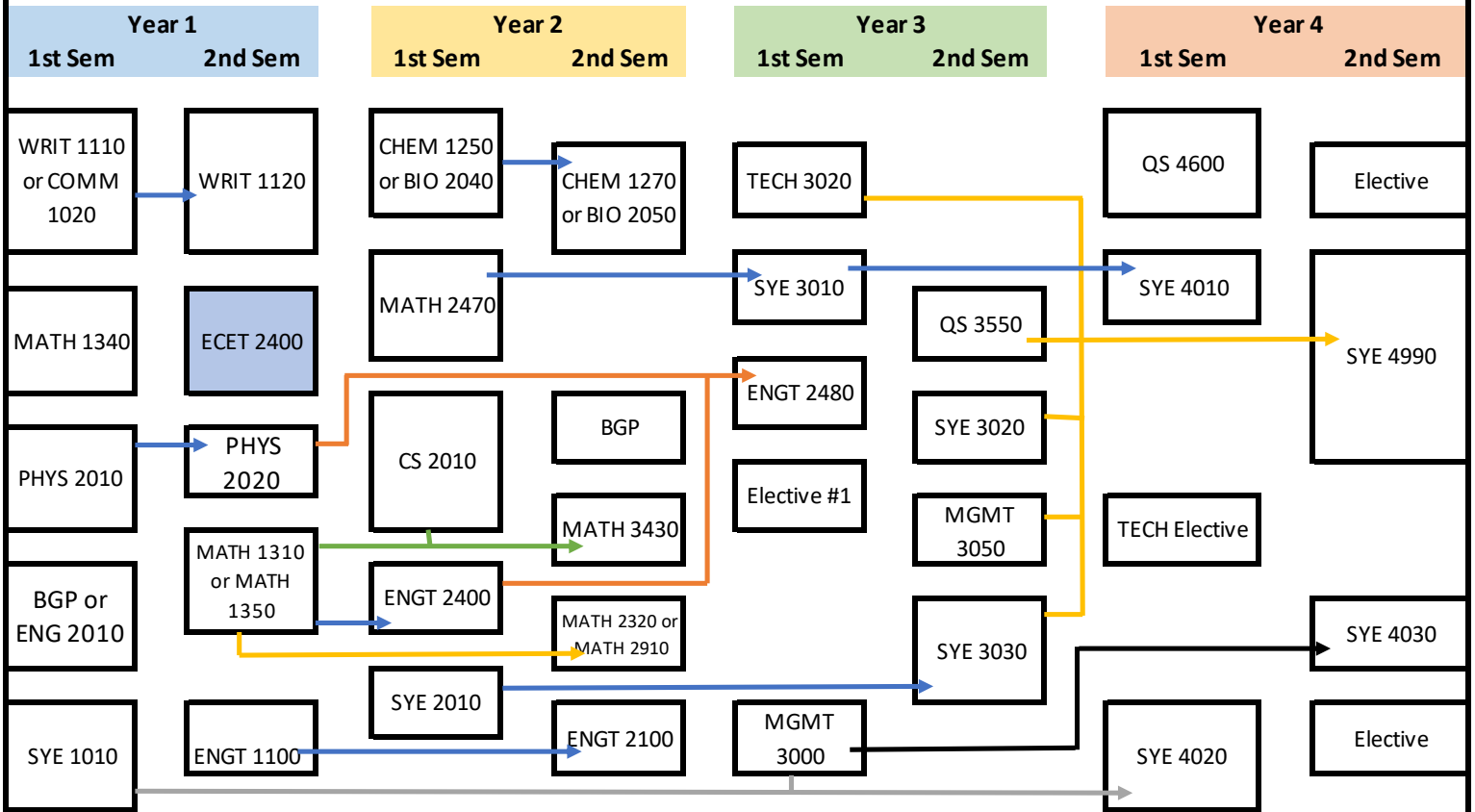
Name: \_\_\_\_\_ ID: \_\_\_\_\_ Advisor: \_\_\_\_\_ Date: Fall 2021  
 This is not an official graduation plan but a tool to use along with your audit and check-sheet  
 Assuming a math placement of 1220, a GSW placement of 1110, and 2 years of high school language

	Course Number	Credit Hours	Semester Taken	Grade Earned	Course Name	Prerequisites/Advisor Notes	Course Offering		
							Fall	Spring	Summer
First Year	Fall	WRIT 1110 or COMM 1020	3	_____	Into to Acad Writing or Public Speaking		✓	✓	✓
		PHYS 2010	5	_____	College Physics I		✓	✓	✓
		BGP or ENG 2010	3	_____	Humanities or Intro to Literature		✓	✓	✓
		SYE 1010	3	_____	Introduction to Systems Engineering		✓	✓	✓
		MATH 1340	3	_____	Calculus & Analytic Geometry		✓	✓	✓
		<b>Semester Total</b>	<b>17</b>						
	Spring	WRIT 1120	3	_____	Academic Writing	WRIT 1110	✓	✓	✓
		ENGT 1110	3	_____	Auto Cad		✓	✓	✓
		MATH 1310	5	_____	Calculus & Analytic Geometry		✓	✓	✓
		ECET 2400	3	_____	Electroni Circuits	MATH 1280	✓	✓	✓
	PHYS 2020	5	_____	College Physics II	PHYS 2010	✓	✓	✓	
	<b>Semester Total</b>	<b>19</b>							
Summer		0	_____			✓	✓	✓	
	<b>First Year Total</b>	<b>36</b>							
Second Year	Fall	CHEM 1250 or BIOL 2040	4-5	_____	General Chem or Concepts in Biology	MATH 1250(CHEM 1250)	✓		
		MATH 2470	3	_____	Fundamentals of Statistics		✓		
		CS 2010	5	_____	Programmable Fundamentals		✓	✓	✓
		SYE 2010	3	_____	Engineering Economics		✓	✓	✓
		ENGT 2400	3	_____	Statics	MATH 1280 or MATH 1300 or MATH 1310 or both MATH 1340 & MATH 1350	✓		
		<b>Semester Total</b>	<b>18-19</b>						
	Spring	ENGT 2100	3	_____	Solid Modeling	ENGT 1100		✓	
		MATH 3430	3	_____	Computing with Data	CS 2010 and C or better in MATH 1310		✓	
		CHEM 1270/1280 or BIOL 2050	4-5	_____	Gen Chem II or Concepts in Biology	CHEM-CHEM 1230 & 1240 or CHEM 1250 & MATH between 1200 & 1300	✓	✓	✓
		MATH 2320 or Math 2910	3-4	_____	Intro to Economics		✓	✓	✓
	BGP	3	_____	Humanities and the Art/Cultural Diversity		✓	✓	✓	
	<b>Semester Total</b>	<b>16-17</b>							
Summer		0	_____						
	<b>Second Year Total</b>	<b>34-36</b>							
Third Year	Fall	SYE 3010	3	_____	System Simulation and Modeling	MATH 2470	✓		
		TECH 3020	3	_____	Technology Systems in Societies		✓	✓	✓
		ENGT 2480	3	_____	Dynamics	ENGT 2400 & PHYS 2010 or PHYS 2110	✓	✓	✓
		ELECTIVE	3	_____			✓	✓	✓
		MGMT 3000	3	_____	Integrated Operations & Supply Chain		✓	✓	✓
		<b>Semester Total</b>	<b>15</b>						
	Spring	QS 3550	3	_____	Foundations of Lean			✓	✓
		SYE 3020	3	_____	Workplace Design			✓	✓
		SYE 3030	3	_____	Production & Material Handling System	SYE 2010		✓	✓
		MGMT 3050	3	_____	Principles of Organization & Mgmt		✓	✓	✓
	<b>Semester Total</b>	<b>12</b>							
Summer	TECH 4890	4	_____	Co-op		✓	✓	✓	
	<b>Third Year Total</b>	<b>31</b>							
Fourth Year	Fall	QS 4600	3	_____	Synchronous Quality Planning		✓	✓	✓
		SYE 4600	3	_____	Logistics Transportation Systems	SYE 1010 & MGMT 3000	✓	✓	✓
		TECH Elective	3	_____	Any ENGT or QS course		✓	✓	✓
		SYE 4010	3	_____	Facility Design & Plant Layout	SYE 3010	✓		
		<b>Semester Total</b>	<b>12</b>						
	Spring	SYE 4030	3	_____	Logistics Distribution Systems			✓	✓
		SYE 4990	3	_____	Capstone Project	SYE 3030, MGMT 3050, TECH 3020, SYE 3020 & QS 3550		✓	✓
		ELECTIVE	3	_____			✓	✓	✓
		ELECTIVE	3	_____			✓	✓	✓
		<b>Semester Total</b>	<b>12</b>						
	<b>Fourth Year Total</b>	<b>24</b>							

**DEGREE TOTAL 125-127**

# B.S. in Systems Engineering

Course Sequence Flowchart with Prerequisites (Excluding Co-ops)



**Program Planning** - The student, in cooperation with an advisor, should use a Program Guide and the corresponding undergraduate catalog to plan a complete program. Any problem which arises in connection with a particular Program Guide should be referred to the student's advisor.

**Matriculation**

Full admittance to major in a College of TECHNOlogy, Architecture and Applied ENGINEering program becomes effective when a student has:

1. Attained an overall BGSU GPA of at least 2.25 for all courses taken prior to applying for matriculation and a 2.5 in courses in the major;
2. Complete a cooperative educ. experience-TECH 2890(Aviation, 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 Offices website.

The steps listed above must be completed before students will be permitted to register for 3000 and 4000 level coursesENGINEering in the College of TECHnology, Architecture and Applied

**Co-op**

All students in the College are required to complete 2-3 co-ops, depending on your major. THIS IS A COURSE. It carries credit and is graded. or part-time(20hrs/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.