BS in Industrial Technology (ITEC) to BS in Engineering Technology (ETEC) Major Change Consideration Check List of Allowed Substitutions

Student Name:	Catalog: Semester Catalog 2022-2023
Student ID:	Program: Engineering Technology, BS
Adviser Name:	Minimum Credits Required: 120 units

Major Change from ITEC to ETEC criteria:

In general, students changing major from ITEC to ETEC must have no more than 24 units of extra requirements necessary to meet the new major; i.e. their new total must not exceed 144 units.

Maintain 2.0 GPA

Lower Division Core Courses (34 units)							
Course Name	Prerequisites	Allowed Substitution	Credits:	Substitutions	Term Taken	Grade	
		CHEM 1100 or CHEM 1040					
CHEM 1000		*Chem course must contain a					
Molecules Matters		lab	3				
ENGR 1500 Intro							
to Eng. and							
Technology			3				
ETEC 1000 Intro.		TECH 1000					
To Automotive							
Systems			3				
ETEC 1020		TECH 1010					
Industrial Safety			3				
ETEC 1100 Intro.		TECH 1100					
to Engineering							
Design			3				
		TECH 1200 plus PHYS					
	1560/1570	1560/1570					
ETEC 1200	both with						
Practical	minimum						
Electronics	C-		3				
EEEC 4 600 X	Со-	TECH 1600 & Tech 1010					
ETEC 1600 Intro.	Requisite						
to Metalworking	ETEC 1020	h	3				
	CHEM	ME 2070					
	1000 or CHEM						
	1040 with a						
ETEC 2070 Eng.	minimum C						
Tech. Materials	grade		3				
10011. 1/14/011410	Math 1040	Calculus equivalent to Math	1				
	or (Math	2110					
	1081						
	&1083) or						
	STEP						
MATH 2110	placement						
Calculus I	or AP Calc		4				
PHYS 1560	Corequisite:	PHYS 2100					
Physics for the 21st							
Century			2				

PHYS 1570	Pre/Co-	PHYS 2100 Or equivalent			
Physics for the 21st	requisite:				
Century Lab	1560		1		
TECH 1300 Intro.	None				
to Graphics					
Communications			3		

Upper Division Core Courses (26 units)

Upper Division Cor			Credits		Term	
Course Name				Substitutions	Taken	Grade
	PHYS	TECH 3600 + Summer Bridge				
	1560,	Course (Special Topics)				
	PHYS					
	1570,					
	MATH					
	2110 all					
	three with a					
	minimum					
	grade C-					
ETEC 3600 Lean	; and ETEC					
Manufacturing	1600.		3			
	PHYS	TECH 3700 + Summer Bridge				
	1560, 1570	Course (Special Topics)				
	and MATH	Course (Special Topics)				
ETEC 3700	2110 all					
Sustainable	with a					
Energy and	minimum					
Transportation	grade C-		3			
ETEC 4210	<u> </u>	TECH 4210 plus TECH 1200				
Internetworking	ETEC 1200	TECH 4210 plus TECH 1200				
Technology			3			
reciniology	PHYS		3			
	1560, 1570					
	and MATH					
ETEC 4880 Fluid	2110 all	TECH 4880 + Summer Bridge				
Power	with a	Course (Special Topics)				
1 0 WCI	minimum					
	grade C-		3			
ETEC 4890		TECH 4890	3			
	ETEC 3600, ETEC 3700					
Industrial Training Methods	ETEC 3700		2			
	EEEC 2600		2			
ETEC 4950	ETEC 3600,					
Engineering	ETEC 3700,	,				
Technology Senior			2			
Project I	Standing.	1	3			
ETEC 4951	ETEC 4950					
Engineering	graded C or					
Technology Senior	better.					
Project II			3			
TECH 3300	Junior					
Graphic	standing					
Communications						
Processes and						
Materials			3			

TECH 4000	BUS 3050			
Written				
Communication				
Skills for				
Technology		3		

Related Core Courses (9 units)

Course Name			Credits:	Substitutions	Term Taken	Grade
ACCT 2100						
Principles of						
Financial						
Accounting			3			
ECON 3060	GE 4 basic	ECON 2090 & ECON 3090				
Statistics for	subjects	Note: ECON 3090 does not				
Business Analysis		satisfy UD GE Block B				
and Decision						
Making			3			
ME 3000	Junior or	CE/EE 3000				
Economics for	Senior	Note: Satisfy LD GE Block D				
Engineers	Standing		3			

Electives (15 units from any category)
Category 1: Elective Courses in Manufacturing Systems & Processes

Course Name		Credits:	Substitutions	Term Taken	Grade
ETEC 3130	ETEC 1100 TECH 3130 & TECH 11	00			
Product Design					
and Development		3			
ETEC 3150	ETEC 3130 TECH 3150				
Project					
Management and					
Document Control		3			
ETEC 3820	MATH				
Metrology and	2110, ETEC				
Statistical Process	1600				
Control		3			
ETEC 4600	MATH				
Advanced	2110, ETEC				
Manufacturing	3600				
Processes		3			
ETEC 4620	ETEC 1100,				
Digital	ETEC 3600				
Manufacturing		3			
	Prerequisite:				
ETEC 4660	ETEC 1100.				
Additive	Corequisite:				
Manufacturing	ETEC 3600.	3			
	Prerequisite:				
ETEC 4670	ETEC 1100.				
Emerging	Corequisite:				
Manufacturing	ETEC 3600.	3			

Category 2: Sustair	nable Energy a	and Transportation Technol	ogies			
Course Name			Credits:	Substitutions	Term Taken	Grade
ETEC 4700	ETEC 3700		Spring			
Electric and			2024			
Hybrid Vehicles				3		
ETEC 4710	ETEC 3700					
Engine Design and Performance				3		
ETEC 4720	ETEC 3700					
Photovoltaic						
Applications				3		
ETEC 4740 Fuel	ETEC 3700					
Cell Applications						
and Hydrogen						
Infrastructure				3		
ETEC 4760	ETEC 3700					
Measurement,						
Instrumentation						
and Control				3		
ETEC 4780	ETEC 3700					
Emerging						
Sustainable						
Technologies				3		
Category 3: Manag	ement			1		
MGMT 3060						
Operations						
Management				3		1
MGMT 4505						
Project						
Management				3		