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

Student Name:	
Student ID:	
Adviser Name:	

Catalog: Semester Catalog 2022-2023 Program: Engineering Technology, BS 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 Co	2					
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			
0	PHYS	TECH 1200 plus PHYS				
		1560/1570				
ETEC 1200	both with					
Practical	minimum					
Electronics	C-		3			
	Co-	TECH 1600 & Tech 1010				
ETEC 1600 Intro.	Requisite					
to Metalworking	ETÉC 1020		3			
	CHEM	ME 2070				
	1000 or					
	CHEM					
	1040 with a					
ETEC 2070 Eng.	minimum C					
Tech. Materials	grade		3			
	Math 1040	Calculus equivalent to Math				
	or (Math	2110				
	1081					
	&1083) or					
	STEP					
MATH 2110	placement		1			
Calculus I	or AP Calc		4			
PHYS 1560		PHYS 2100				
Physics for the 21 st	PHYS 1570	Or equivalent				
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 Cor	e Courses (2	26 units)	-			
			Credits		Term	
Course Name			Cicuits	Substitutions	Taken	Grade
	PHYS	TECH 3600 + Summer Bridge			Tuntin	Gruut
	1560,	Course (Special Topics)				
	PHYS	Course (Special Topics)				
	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					
ETEC 3700	2110 all					
Sustainable	with a					
Energy and	minimum					
Transportation	grade C-		3			
ETEC 4210	ETEC 1200	TECH 4210 plus TECH 1200				
Internetworking		1				
Technology			3			
	PHYS					
	1560, 1570					
	and MATH					
	2110 all					
	with a					
ETEC 4880 Fluid	minimum					
Power	grade C-		3			
ETEC 4890	ETEC 3600.	TECH 4890				
Industrial Training	ETEC 3700					
Methods			2			
ETEC 4950	ETEC 3600,					
Engineering	ETEC 3700,					
Technology Senior	and Senior					
Project I	Standing.		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)

Related Core Cour	rses (9 units)		C III		Term	
Course Name			Credits:	Substitutions	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

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

Course Name		Credits:	Substitutions	Term Taken	Grade
ETEC 4700	ETEC 3700	Spring	Substitutions	I akcii	Graue
Electric and		2024			
Hybrid Vehicles		2021	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		
MGMT 4505					
Project					
Management			3		