

Prerequisites				
Courses	Classes	FA	SP	SU
<b>Mathematics Requirement</b>				
MAC1105	College Algebra	✓	✓	✓
MAC1114	Trigonometry	✓	✓	✓
MAC1140	Pre-Calculus	✓	✓	✓
<b>Statistics Requirement (select 1)</b>				
EGN3443	Probability and Statistics for Engineers <i>Preferred</i>	✓	✓	✓
STA2023	Elementary Statistics	✓	✓	✓
<b>Technical Math Route</b>				
EGN2045	Engineering Technical Calculus I	✓	✓	
EGN 3046	Engineering Technical Calculus II		✓	✓
<b>*OR* Graduate Math Route</b>				
MAC2311C	Calculus I	✓	✓	✓
MAC2312C	Calculus II	✓	✓	✓
MAC2313C	Calculus III	✓	✓	✓
MAP2302C	Differential Equations	✓	✓	✓
<b>Physics Requirement (select 1)</b>				
ETG3541	Applied Mechanics & Physics <i>Preferred</i>			✓
PHY2048C	Physics with Calculus I and Lab	✓	✓	
<b>Digital Requirement (select 1)</b>				
CET3116	Digital Technology <i>Preferred</i>	✓	✓	✓
CET1112C	Digital Fundamentals and Lab	✓	✓	✓
<b>Programming Requirement (Select Either)</b>				
EGN3214	Programming for Engineers <i>Preferred</i>	✓		✓
<b>OR Fundamental Programming</b>				
COP1000	Principles of Computer Programming	✓	✓	✓
<b>And One of the Following Programming Options</b>				
COP2220	Computer Programming C	✓	✓	
COP2800	Computer Programming Java	✓	✓	
COP2360	C# Programming	✓	✓	✓
<b>Lower Level Technical Electives:</b> Student must complete <b>44</b> approved hours of lower-level technical coursework.				

Requirements (42 credit hours)				
Courses	Classes	FA	SP	SU
ETS 3543C	<b>Programming Logic Applications and Lab</b> PR: CET3116 or CET1112C	✓	✓	✓
GEB 3213	<b>Business Writing</b> PR: ENC1101	✓	✓	✓
EET 3085 (Lecture)	<b>Electricity and Electronics (Lecture only)</b> PR: MAC1114 or Higher	✓	✓	✓
EGN 3613	<b>Engineering Economics Analysis</b> PR: EGN2045 or MAC2311C		✓	✓
EGN 3311	<b>Statics</b> PR: (EGN2045 or MAC2311C) and (ETG3541 or PHY2048C)	✓	✓	
EGN 3321	<b>Dynamics</b> PR: EGN3311	✓	✓	
ETS 4502C	<b>Metrology and Instrumentation</b> PR: EGN3311 and EET3085	✓		
ETI3116	<b>Engineering Quality Assurance</b> PR: STA2023 or EGN3443		✓	
ETI 4448	<b>Project Management &amp; Senior Design I and Lab</b> PR: EGN3613	✓		
ETG 4950C	<b>Project Management &amp; Senior Design II and Lab</b> PR: ETI4448		✓	
<b>Energy Course (Select 2)</b>				
ETM 4220	<b>Energy Systems</b> PR: EGN2045 or MAC2311C		✓	
EGN 3343	<b>Thermodynamics</b> PR: (PHY2048C or ETG3541) and (EGN3046 or MAP2302C)			✓
ETM 4331	<b>Applied Fluid Mechanics</b> PR: (EGN2045 or MAC2311C) and (ETG3541 or PHY2048C)	✓		
<b>Materials Course (Select 2)</b>				
ETI 3421	<b>Materials &amp; Processes</b> PR: MAC1114 or Higher	✓		
ETC 4241 & ETC 4241L	<b>Construction Materials &amp; Lab</b> PR: (EGN2045 or MAC2311C) and (ETG3541 or PHY2048C) Co-R: ETC4241L		✓	
ETG 3533 & ETG 3533L	<b>Engineering Strength of Materials &amp; Lab</b> PR: EGN3311 or ETG3541 Co-R: ETG3533L		✓	
<b>General Education Requirements:</b> Student must complete State required general education courses. This requirement is considered complete with an AA from an accredited Florida State School; two (2) semesters of a foreign language completed in a Florida State School or transferred from a high school; completion of Florida Civics Literacy course and Exam are required.				

Student must select two (2) courses (6 credit hours) from either categories below

Upper-Level Technical Electives				
Courses	Classes	FA	SP	SU
ETI 4205	<b>Applied Logistics</b> PR: MAC1105 or Higher	✓		
ETI 4640	<b>Operations Management</b> PR: MAC1105 or Higher		✓	
ETI 4704	<b>Occupational Safety</b> PR: GEB3213			✓
ETI 4186	<b>Applied Reliability</b> PR: ETI3116	✓		
ETC 4414C	<b>Structural Steel Design and Lab (Offered every 2 years, Even)</b> PR: ETG3533	✓		
ETC 4415C	<b>Structural Concrete Design and Lab (Offered every 2 years, Odd)</b> PR: ETG3533		✓	
ETC 4206	<b>Construction Estimating</b> PR: (ETC4241 and MAC1114)		✓	
<b>Or Any Upper-Level Course Offered Under the BSET Concentrations (Electrical Engineering Technology and Industrial Engineering Technology) Or Approved by the Chair</b>				

Advanced Technical Certificate				
Construction and Design				
Course #	Course Name	FA	SP	SU
ETG 3533 & ETG 3533L	<b>Engineering Strength of Materials &amp; Lab</b> PR: EGN3311 or ETG3541 Co-R: ETG3533L		✓	
ETC 4241 & ETC 4241L	<b>Construction Materials &amp; Lab</b> PR: (EGN2045 or MAC2311C) and (ETG3541 or PHY2048C) Co-R: ETC4241L		✓	
ETC 4414C	<b>Structural Steel Design and Lab</b> PR: ETG3533	✓		
ETC 4415C	<b>Structural Concrete Design and Lab</b> PR: ETG3533		✓	
ETC 4206	<b>Construction Estimating</b> PR: (ETC4241 and MAC1114)		✓	
<b>Legend:</b>				
Prerequisites				
BSET Program Requirement				
Upper-Level Technical Electives - Logistics, Quality or Industrial				
✓	Course Available			
	Not Offered			