DAYTONA STATE COLLEGE

Not offered in the semester

BSET Planner

				Year:			Year:		
Mathematics Course Requirements	**CH**	**Course**	**Done**	**Fall**	**Spring**	**Summer**	**Fall**	**Spring**	**Summer**
College Algebra	3	MAC1105							
Trigonometry	3	MAC1114							
Statistics	3	STA2023							
Technical Math Route	**CH**	**Course**	**Done**	**Fall**	**Spring**	**Summer**	**Fall**	**Spring**	**Summer**
Engineering Tech. Calculus I	4	EGN2045							
Engineering Tech. Calculus II	3	EGN3046							
***OR* Graduate Program Route**	**CH**	**Course**	**Done**	**Fall**	**Spring**	**Summer**	**Fall**	**Spring**	**Summer**
Pre-Calculus	3	MAC1140							
Calculus I	4	MAC2311C							
Calculus II	4	MAC2312C							
Calculus III	4	MAC2313C							
Differential Equations	3	MAP2302							
Physics Course Requirement (select 1)	**CH**	**Course**	**Done**	**Fall**	**Spring**	**Summer**	**Fall**	**Spring**	**Summer**
Physics with Calculus I	5	PHY2048C							
Applied Mechanics and Physics	3	ETG3541							
Programming Course Req. (select 1)	**CH**	**Course**	**Done**	**Fall**	**Spring**	**Summer**	**Fall**	**Spring**	**Summer**
C# Programming	3	COP2360							
Computer Programming C	3	COP2220							
Computer Programming Java	3	COP2800							
Programming for Engineers	3	EGN3214							
Program Requirements (37 credit hours)	**CH**	**Course**	**Done**	**Fall**	**Spring**	**Summer**	**Fall**	**Spring**	**Summer**
Business Writing	3	GEB3213							
Electricity and Electronics Lecture	3	EET3085							
Electricity and Electronics Lab	1	EET3085L							
Engineering Tech. Calculus II	3	EGN3046							
Programmable Logic Applications and Lab	3	ETS3543C							
Engineering Economics Analysis	3	EGN3613							
Statics	3	EGN3311							
Dynamics	3	EGN3321							
Metrology and Instrumentation and Lab	3	ETS4502C							
PM and Senior Design I	3	ETI4448							
PM and Senior Design II	3	ETG4950C							
Materials Course Requirement (select 1)	**CH**	**Course**	**Done**	**Fall**	**Spring**	**Summer**	**Fall**	**Spring**	**Summer**
Materials and Processes	3	ETI3421							
Construction Materials Lecture	2	ETC4241							
Construction Materials Lab	1	ETC4241L							
Strength of Materials Lecture	2	ETG3533							
Strength of Materials Lab	1	ETG3533L							
Energy Course Requirement (select 1)	**CH**	**Course**	**Done**	**Fall**	**Spring**	**Summer**	**Fall**	**Spring**	**Summer**
Thermodynamics	3	EGN3343							
Applied Fluid Mechanics	3	ETM4331							
Energy Systems	3	ETM4220							
Must select two (2) courses (6 credit hours) from one of the specializations below:									
Logistics, Quality, or Industrial Electives (select 2)	**CH**	**Course**	**Done**	**Fall**	**Spring**	**Summer**	**Fall**	**Spring**	**Summer**
Applied Logistics	3	ETI4205							
Engineering Quality Assurance	3	ETI3116							
Operations Management	3	ETI4640							
Applied Reliability	3	ETI4186							
Occupational Safety	3	ETI4704							
Construction & Design (select 2)	**CH**	**Course**	**Done**	**Fall**	**Spring**	**Summer**	**Fall**	**Spring**	**Summer**
Structural Steel Design & Lab OFFERED EVERY 2 YRS (**Even years**)	3	ETC4414C							
Structural Steel Design & Lab OFFERED EVERY 2 YRS (**Odd years**)	3	ETC4415C							
Construction Estimating	3	ETC4206							
Construction Materials Lecture	2	ETC4241							
Construction Materials Lab	1	ETC4241L							
Strength of Materials Lecture	2	ETG3533							
Strength of Materials Lab	1	ETG3533L							
Requirements Summary	**CH**	**Course Number**	**Done**						
General Education	36	Various							
Lower Level Technical Electives	44	44 Hours							
Upper Level Program Specific	48	48 Hours							
Total Hours		128 Hours							

DAYTONA STATE COLLEGE

BSET Program
Catalog Year: 2024-2025

Prerequisites				
Courses	**Classes**	**FA**	**SP**	**SU**
Mathematics Requirement				
MAC1105	College Algebra	✓	✓	✓
MAC1114	Trigonometry	✓	✓	✓
STA2023	Elementary Statistics	✓	✓	✓
Technical Math Route				
EGN2045	Engineering Technical Calculus I	✓	✓	
EGN 3046	Engineering Technical Calculus II		✓	✓
***OR* Graduate Math Route**				
MAC1140	Pre-Calculus	✓	✓	✓
MAC2311C	Calculus I	✓	✓	✓
MAC2312C	Calculus II	✓	✓	✓
MAC2313C	Calculus III	✓	✓	✓
MAP2302	Differential Equations	✓	✓	✓
Physics Requirement (select 1)				
PHY2048C	Physics with Calculus I and Lab	✓	✓	
ETG3541	Applied Mechanics & Physics			✓
Programming Requirement (select 1)				
COP2220	Computer Programming C	✓	✓	
COP2800	Computer Programming Java	✓	✓	
COP2360	C# Programming	✓	✓	✓
EGN3214	Programming for Engineers	✓		✓
Lower Level Technical Electives: Student must complete **44** approved hours of lower-level technical coursework.				

Requirements *(37 credit hours)*				
Courses	**Classes**	**FA**	**SP**	**SU**
ETS 3543C	**Programming Logic Applications and Lab** PR: MAC1105	✓	✓	✓
GEB 3213	**Business Writing**	✓	✓	✓
EET 3085 & EET 3085L	**Electricity and Electronics & Lab** PR: MAC1114 Co-R: EET3085L	✓	✓	✓
EGN 3613	**Engineering Economics Analysis** PR: EGN2045 or MAC2311C		✓	✓
EGN 3311	**Statics** PR: EGN2045 or (MAC2311C **and** ETG3541) or PHY2048C	✓	✓	
EGN 3321	**Dynamics** PR: EGN3311	✓	✓	
ETS 4502C	**Metrology and Instrumentation** PR: EGN3311 or (ETG3541 **and** EET3085/L)	✓		
EGN 3046	**Engineering Technical Calculus II** PR: EGN2045 or MAC2311C		✓	✓
ETI 4448	**Project Management & Senior Design I and Lab** PR: EGN3613	✓		
ETG 4950C	**Project Management & Senior Design II and Lab** PR: ETI4448		✓	
Energy Course (Select 1)				
ETM 4220	**Energy Systems** PR: EGN2045 or MAC2311C		✓	
EGN 3343	**Thermodynamics** PR: (PHY2048C **and** EGN3046) or MAP2302C			✓
ETM 4331	**Applied Fluid Mechanics** PR: EGN2045 or (MAC2311C **and** ETG3541) or PHY2048C	✓		
Materials Course (Select 1)				
ETI 3421	**Materials & Processes** PR: MAC1114	✓		
ETC 4241 & ETC 4241L	**Construction Materials & Lab** PR: EGN2045 or (MAC2311C **and** ETG3541) or EGN3311 Co-R: ETC4241L		✓	
ETG 3533 & ETG 3533L	**Engineering Strength of Materials & Lab** PR: EGN3311 or ETG3541 Co-R: ETG3533L		✓	
General Education Requirements: 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

Advanced Technical Certificate Construction and Design				
Courses	**Classes**	**FA**	**SP**	**SU**
ETG 3533 & ETG 3533L	**Engineering Strength of Materials & Lab** PR: EGN3311 or ETG3541 Co-R: ETG3533L		✓	
ETC 4241 & ETC 4241L	**Construction Materials and Methods & Lab** PR: EGN2045 or (MAC2311C **and** ETG3541) or EGN3311 Co-R: ETC4241L		✓	
ETC 4414C	**Structural Steel Design and Lab (Offered every 2 years, Even)** PR: ETG3533	✓		
ETC 4415C	**Structural Concrete Design and Lab (Offered every 2 years, Odd)** PR: ETG3533		✓	
ETC 4206	**Construction Estimating** PR: (ETC4241 **and** MAC1114)		✓	

Logistics, Quality, or Industrial Fundamentals Electives				
Courses	**Classes**	**FA**	**SP**	**SU**
ETI 4205	**Applied Logistics** PR: MAC1105	✓		
ETI 3116	**Engineering Quality Assurance** PR: STA2023		✓	
ETI 4640	**Operations Management** PR: MAC1105		✓	
ETI 4704	**Occupational Safety** PR: GEB3213			✓
ETI 4186	**Applied Reliability** PR: EET3116	✓		

Legend:

Prerequisites	
BSET Program Requirement	
Construction and Design (Adv. Tech. Cert)	
Upper-Level Technical Electives - Logistics, Quality or Industrial	
✓	Course Available
	Not Offered