



Direct Transfer Track: Associate of Applied Science in Engineering Fundamentals concentration in Aerospace Engineering to Bachelor of Science in Engineering in Aerospace Engineering Bulletin Year: 2023-2024

This course plan is a recommended sequence for this major. Please see the University of South Carolina Bulletin for detailed degree requirements and contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.

Course Subject and Title	Credit	Min. Grade	USC Equivalent Course	USC Degree
Semester One (15 Credit Hours)	Tiouro	orado		rippirousinty
EGR 270 Introduction to Engineering	3	С	ENCP 101 Intro to Engineering	PR/ Supporting Course
ENG 101 English Composition I	3	C	ENGL 101 Critical Reading & Composition	CC-CMW
CHM 110 College Chemistry	4	C	CHEM 111 General Chemistry I &	CC-SCI
MAT 440 Callere Algebre (Zweek severe)*	2	0	CHEMITTIL General Chemistry I Lab	Dra Dar
MAT 110 College Algebra (7 week course)"	3		MATH TTT Basic College Mathematics	Pre-Req
MAT TTT College Trigonometry (7 week course)"	3	C	MATH T12 Trigonometry	Pre-Req
COL 101 College Orientation	1		Non-Transferable	
Semester Two (14 Credit Hours)	4			
MAT 140 Analytical Geometry & Calculus I	4	C	MATH 141 Calculus I	
ENG 102 English Composition II	3	C	ENGL 102 Rhetoric & Composition	CC-CMW/INF
CHEM 111 College Chemistry II	4	С	CHEM 112 General Chemistry II & CHEM 112 General Chemistry II Lab	PR
EGR 275 Intro to Engineering/Computer Graphics	3	С	ENCP 102 Intro to Engineering II	PR-Supporting Course
Summer (14 Credit Hours)				
PSC 201 American Government	3	С	POLI 201 American National Government	CC-GSS/VSR Founding Documents
	4	С	MATH 142 Calculus II	CC ARP
MAT 141 Analytical Geometry and Calculus II		-		
PHY 221 University Physics I	4	С	PHYS 211 Essential of Physics I and PHYS 211 Essential of Physics II ab	CC-SCI
HIS 101 Western Civilization to 1689	3	С	HIST 101 European Civilization from Ancient Times to	CC-GHS
Semester Three (17 Credit Hours)				
EGR 274 Engineering App of Numerical Methods	3	C	ENCP 201 Intro to Applied Numerical Methods	PR-Supporting Course
EGR 260 Engineering Statistics	3	C C	ENCP 200 Statistics	PR-Supporting Course
MAT 240 Analytical Geometry and Calculus III	3	C	MATH 2/1 Vector Calculus	PR-Supporting Course
PHV 222 University Physics II	1	C	PHVS 212 Essentials of Physics II &	Not Required/Not
	-	C	PHVS 212 Essentials of Physics II Lab	Degree Applicable
MUS 105 Music Appreciation or	3	C	MUSC 110 Introduction to Music or	
ART 101 Art History & Appreciation or	5	C	ARTE 101 Introduction to Art or	00-710
THE 101 Introduction to Theatre			THEA 200 Understanding & Appreciation Theatre	
Semester Four (15 Credit Hours)			There are an	
MAT 242 Differential Equations	4	С	MATH 242 Elem Differential Equations	PR-Supporting Course
FGR 264 Intro to Engineering Mechanics of Solids	3	C C	ENCP 260 Intro to Mechanics of Solids	PR
EGR 266 Eng. Thermodynamics Eundamentals	3	C	ENCP 200 Thermodynamics Eundamentals	PR
EGR 262 Dynamics	3	C C	ENCE 210 Dynamics	MR
EGR 200 Statistics for Engineers	3	C C	STAT 500 Statistics for Engineers	MR
Semester Five (15 Credit Hours)	ausuus ior Engineers jo C STAT 509 Statistics for Engineers MR			
AESP 265 Acrodynamics Lincomprossible Eleve	3			MP
(fall only)	5			MIX
Carolina Core CMS	3			CC CMS
EMCH 371 Materials	3			
EMCH 308 Intro to Einito Element Stress Analysis	3			MD
MATH 344 Applied Linear Algebra	3			
Semester Six (15 Credit Hours)	5			FIX
AESP 361 Acrospace Laboratory L (spring only)	3	1		MP
AESP 365 Acrodynamics II Compressible Flow	3			MP
AESP 303 Aerodynamics if Compressible Flow	2			MD
EMCH 330 Machanical Vibrations (or ENCD 330)	<u> </u>	<u> </u>		
ENCH 577 Acrospace Structures L	3			
ENIGH STT ACTOSpace Structures I	3			IVIK
AESD 214 Energy Dewor & Dramulator (fall such)	0			MD
AESP 314 Energy Power & Propulsion (fall only)	3			
AESE 302 Aerospace Laboratory II (Iall Only)	3			
AESP 415 AIrcrait Design	3			
AEST 420 Flight & Orbital Mechanics	3			
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Semester Eight (15 Credit Hours)			
AESP 428 Design I (spring only)	3		MR
AESP 466 Flight Dynamics & Control (spring only)	3		MR
Aerospace Engineering Elective	3		PR
Aerospace Engineering Elective	3		PR
ELCT 220 Electrical Engineering for Non-Majors or	3		PR
ELCT 221 Circuits			
Take During any Semester			
Foreign Language	0-6		CC-GFL

*Students may place into and begin with MAT 140.

University Requirements: Bachelor's degree-seeking students must meet Carolina Core (general education) requirements. For more information regarding these requirements, please visit the <u>Carolina Core</u> page on the University website.

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CC	Carolina Core	CC-INF	Carolina Core – Information Literacy
CC-AIU	Carolina Core-Aesthetic and Interpretive Understanding	CC-INT	Carolina Core – Integrative Course
CC-ARP	Carolina Core-Analytical Reasoning and Problem-Solving	CC-SCI	Carolina Core – Scientific Literacy
CC-CMS	Carolina Core-Effective, Engaged, and Persuasive Communication: Spoken Component	CC-VSR	Carolina Core – Values, Ethics, and Social Responsibility
CC-CMW	Effective, Engaged, and Persuasive Communication: Written Component	CR	College Requirement
CC-GFL	Carolina Core-Global Citizenship and Multicultural Understanding: Foreign Language	MR	Major Requirement
CC-GHS	Carolina Core – Historical Thinking	PR	Program Requirement
CC-GSS	Carolina Core – Social Sciences		