

Degree Plan Chart for Aerospace Engineering Program (New/Revised)

FRESHMAN YEAR	17 hrs.	CHEM 101 General Chemistry (4)	ENGL 101 Intro. To Acad. Discourse (3)	IAS 121 Language Foundation (2)	MATH 101 Calculus I (4)	PHYS 101 General Physics I (4)				
	17 hrs.	ENGL 102 Intro. to Report Writing (3)	IAS 111 Belief & its Consequences (2)	ICS 104 Intro. to Prog. In Python & C (3)	MATH 102 Calculus II (4)	PHYS 102 General Physics II (1)	PE 101 Health & Physical Edu. I (4)			
		ENGL 101			MATH 101	PHYS 101				
SOPHOMORE YEAR	17 hrs.	AE 211 Fund. of Thermo-Fluids (3)	ENGL 214 Acad. & Prof. Comm. (3)	IAS 212 Professional Ethics (2)	ISE 291 Intro. To Data Science (3)	MATH 201 Calculus III (3)	CE 201 Statics (3)			
	15 hrs.	AE 221 Introduction to AE (3)	AE 228 Intro. to AE Struct. & Mat. (3)	COE 292 Intro. to Artificial Intel. (3)	MATH 208 Intro. to Diff. Eq. & Lin. Alg. (3)	ME 201 Dynamics (3)				
		MATH 102, PHYS 102	ENGL 102	IAS 111	ICS 104, MATH 102	MATH 102	PHYS 101			
		PHYS 102	PHYS 101	ISE 291	MATH 102	CE 201				
JUNIOR YEAR	16 hrs.	ME 210 ME Drawing and Graphics (3)	AE 230 AE Vehicle Performance (3)	AE 313 AE Systems and Control (3)	MATH 371 Intro. to Num. Comp. (3)	AE 357 AE Numerical Methods Lab (1)	XXX xxx Engineering Elective (3)			
	16 hrs.	AE 312 Fundamentals of AE Design (1)	AE 325 Gas Dynamics I (3)	AE 328 Flight Structure I (3)	AE 333 Aerodynamics I (3)	BUS 200 Business & Entrep. (3)	IAS XXX Islamic/Arabic Elective (2)	CGS 392 Career Essentials (1)		
		Junior standing	AE 221	AE 228, MATH 201	AE 221					
SUMMER		AE 399 Summer Training (0)								
		ENGL 214, A.O.D.								
SENIOR YEAR	15 hrs.	AE 412 Senior Design (2)	AE 421 AE LAB (1)	AE xxx AE Elective I (3)	AE xxx AE Elective II (3)	GS xxx GS Elective (3)	XXX xxx Science Elective (3)			
	15 hrs.	AE 422 Flight Propulsion I (3)	AE 426 Flight Dynamics I (3)	AE 427 Aerospace Vehicle Design (3)	XXX xxx Elective I (3)	XXX xxx Elective II (3)				
		AE 312	Senior standing							
		AE 211	AE 221	Senior standing						

KEY

- Pre-Requisites
- Co-Requisites
- Credit Hours
- 58 General Education Requirements
- 47 Core Requirements
- 23 Elective Requirements
- 0 Technical Training

128 - Total Credit Hours