

Degree Plan Chart for Aerospace Engineering Program – Internship Option

FRESHMAN YEAR	17 hrs.	CHEM 101 Princ. of Chem. Science I (4)	ENGL 101 Intro. To Acad. Discourse (3)	IAS 121 Language Foundation (2)	MATH 101 Calculus I (4)	PHYS 101 General Physics I (4)			KEY Pre-Requisites Co-Requisites Credit Hours
	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 (4)	PE 101 Health & Physical Edu. I (1)		
		ENGL 101			MATH 101	PHYS 101			
SOPHOMORE YEAR	18 hrs.	AE 211 Fund. of Thermo-Fluids (3)	ENGL 214 Acad. & Prof. Comm. (3)	AE 222 Introduction to AE (3)	ISE 291 Intro. To Data Science (3)	MATH 201 Calculus III (3)	CE 201 Statics (3)		58 General Education Requirements 47 Core Requirements 17 Elective Requirements 6 Technical Training 128 - Total Credit Hours
	18 hrs.								
		MATH 102, PHYS 102	ENGL 102	PHYS 102	ICS 104, MATH 102	MATH 102	PHYS 101		
18 hrs.		IAS 212 Ethics and Governance (2)	AE 228 Intro. to AE Struct. & Mat. (3)	COE 292 Intro. to Artificial Intel. (3)	MATH 208 Diff. Eq. & Lin. Algebra (3)	ME 201 Dynamics (3)	AE 223 Fluid Mech. Lab (1)	GS xxx GS Elective (3)	
		IAS 111	PHYS 101	ISE 291	MATH 102	CE 201	AE 211		
JUNIOR YEAR	18 hrs.	ME 210 ME Drawing and Graphics (3)	AE 314 Systems and Control (3)	AE 315 Systems and Control Lab (1)	MATH 371 Intro. to Num. Comp. (3)	XXX xxx Engineering Elective (3)	IAS XXX Islamic/Arabic Elective (2)	XXX xxx Science Elective (3)	
	18 hrs.								
			ME 201, MATH 208		MATH 201				
18 hrs.		AE 321 Struc. and Mat. Lab (1)	AE 325 Gas Dynamics I (3)	AE 328 Flight Structure I (3)	AE 358 Comp. Aided Engg. Lab (1)	AE 333 Aerodynamics I (3)	BUS 200 Business & Entrep. (3)	CGS 392 Career Essentials (1)	
		AE 228	AE 222	AE 228, MATH 201		AE 222		AE xxx AE Elective I (3)	
SENIOR YEAR	6 hrs.	AE 398 Internship (6)	AE 411 Senior Design Project I (0)						
	16 hrs.								
		ENGL 214, AE 222, A.O.D.	Junior standing						
16 hrs.		AE 412 Senior Design Project II (3)	AE 422 Flight Propulsion I (3)	AE 426 Flight Dynamics I (3)	AE 427 Aerospace Vehicle Design (3)	AE 423 Aero. and Prop. Lab (1)	AE xxx AE Elective II (3)		
		AE 411	AE 211	AE 222 and AE 314	AE 328, AE 333 and Senior standing	AE 325			