

Table of Curriculum

Classification	Subject No.		Subject Name	Lecture:Lab.: Credit (Homework)	Semester	Remark	
Mandatory major courses	AE210	B8.210	Aerospace Thermodynamics	3:0:3(6)	Spring		
	AE220	B8.220	Aerodynamics I	3:0:3(6)	Fall		
	AE300	B8.230	Flight Mechanics Project	3:1:3(6)	Spring		
	AE308	B8.308	Aerospace Engineering Laboratory I	1:3:2(3)	Spring		
	AE309	B8.309	Aerospace Engineering Laboratory II	1:3:2(3)	Fall		
	AE330	B8.330	Aerospace Structures I	3:0:3(6)	Spring		
	AE400	B8.400	Aerospace System Design I	2:3:3(6)	Spring	◎	
Elective major courses	AE200	B8.200	Introductory Space Projects	2:3:3(6)	Fall		
	AE230	B8.230	Mechanics of Aerospace Materials	3:0:3(6)	Spring		
	AE250	B8.250	Aerospace Dynamics	3:0:3(6)	Fall		
	AE280	B8.280	Software Application in Aerospace Engineering	2:3:3(6)	Spring		
	AE310	B8.310	Propulsion System	3:0:3(6)	Fall		
	AE311	B8.311	Aerospace Heat Transfer	3:0:3(6)	Spring		
	AE320	B8.320	Aerodynamics II	3:0:3(6)	Spring		
	AE350	B8.350	Aerospace Control Engineering	3:1:3(6)	Fall		
	AE370	B8.370	Numerical Methods	3:0:3(6)	Spring		
	Advanced Major	AE321	B8.321	Compressible Aerodynamics	3:0:3(6)	Fall	
		AE331	B8.331	Aerospace Structures II	3:0:3(6)	Fall	
		AE401	B8.401	Aerospace System Design II	2:3:3(6)	Fall	◎
		AE405	B8.405	Satellite Systems	3:0:3(6)	Fall	◎
		AE410	B8.410	Combustion Engineering	3:0:3(6)	Spring	◎
AE420		B8.420	Viscous Aerodynamics	3:0:3(6)	Fall	◎	
AE435		B8.435	Vibration & Basic Aeroelasticity	3:0:3(6)	Spring	◎	
AE450		B8.450	Flight Dynamics and Control	3:0:3(6)	Fall	◎	
AE455		B8.455	Global Positioning System	3:0:3(6)	Fall	◎	
AE480		B8.480	Aerospace Applied Electronics	2:3:3(6)	Spring	◎	
AE492		B8.492	Special Lectures in Aerospace Engineering	3:0:3(6)	Spring.Fall	◎	
AE493	B8.493	Special Lectures in Aerospace Engineering II	2:0:2(3)	Fall	◎		
Research	AE490	B8.490	Thesis Study	0:6:3	Fall		
	AE495	B8.495	Individual Study	0:6:1	Fall		
	AE496	B8.496	Seminar	1:0:1	Spring.Fall		

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Mandatory	Mandatory	CC010	11.010	Special Lecture on Leadership	1:0:0	Fall		
		CC020	11.020	Ethics and Safety I	1AU	Spring,Fall		
	General Courses	Choose 1	CC510	11.510	Introduction to Computer Application	2:3:3	Spring,Fall	
			CC511	11.511	Probability and Statistics	2:3:3	Spring,Fall	
			CC512	11.512	Introduction to Materials Science and Engineering	3:0:3	Spring,Fall	
			CC513	11.513	Engineering Economy and Cost Analysis	3:0:3	Fall	
			CC522	11.522	Introduction to Instruments	2:3:3	Fall	
			CC530	11.530	Entrepreneurship and Business Strategies	3:0:3	Spring,Fall	
		CC532	11.532	Collaborative System Design and Engineering	4:0:4	Spring		
Selective Major Course		AE500	B8.500	Synthetic Design of Aerospace Systems	3:1:3(6)	Fall	⊙	
		AE501	B8.501	Multidisciplinary Design Optimization for Aerospace Systems	3:0:3(6)	Spring	⊙	
		AE505	B8.505	Appraisal of Engineering Projects under Uncertainty	3:0:3(6)	Spring	⊙	
		AE510	B8.510	Aerothermochemistry and Combustion	3:0:3(6)	Fall	⊙	
		AE511	B8.511	Radiation and Combustion Phenomena	3:0:3(6)	Fall	⊙	
		AE515	B8.515	Advanced Space Propulsion Systems	3:0:3(6)	Spring	⊙	
		AE516	B8.516	Rocket System Engineering	3:0:3(6)	Fall	⊙	
		AE520	B8.520	Advanced Aerodynamics	3:0:3(6)	Spring	⊙	
		AE521	B8.521	Helicopter Aeromechanics	3:0:3(6)	Spring	⊙	
		AE522	B8.522	Computational Fluid Dynamics	3:0:3(6)	Fall	⊙	
		AE523	B8.523	Aeroacoustics	3:0:3(6)	Fall	⊙	
		AE525	B8.525	Experimental Aerodynamics	1:6:3(6)	Spring	⊙	
		AE530	B8.530	Flight Vehicle Structures	3:0:3(6)	Spring	⊙	
		AE531	B8.531	Structural Dynamics	3:0:3(6)	Spring	⊙	
		AE532	B8.532	Mechanics of Composite Materials	3:0:3(6)	Fall	⊙	
		AE535	B8.535	Smart Composite Lab	2:3:3(6)	Fall	⊙	
		AE550	B8.550	Spacecraft Attitude Dynamics and Control	3:0:3(6)	Spring	⊙	
		AE551	B8.551	Introduction to Optimal Control	3:0:3(6)	Spring	⊙	
		AE552	B8.552	Advanced Linear Stability and Control	3:0:3(6)	Fall	⊙	
		AE555	B8.555	Spacecraft Trajectory Guidance and Control	3:0:3(6)	Spring	⊙	
		AE580	B8.580	GNSS Remote Sensing	3:0:3(6)	Spring	⊙	
		AE620	B8.620	Advanced Gas Dynamics	3:0:3(6)	Spring		
		AE621	B8.621	Hypersonics Aerodynamics	3:0:3(6)	Spring		
		AE623	B8.623	Unsteady Fluid Flows	3:0:3(6)	Fall		
		AE630	B8.630	Theory of Plates and Shells	3:0:3(6)	Fall		
		AE631	B8.631	Aeroelasticity	3:0:3(6)	Fall		
		AE650	B8.650	Navigation and Guidance	3:0:3(6)	Spring		
		AE651	B8.651	Advanced Navigation Systems and Applications	3:1:3(6)	Fall		
		AE655	B8.655	Experiments in Flight Control	2:3:3(6)	Spring		
		AE810	B8.810	Special Topics in Propulsion and Combustion	3:0:3(6)	Fall		
	AE820	B8.820	Special Topics in Aerodynamics	3:0:3(6)	Fall			
	AE830	B8.830	Special Topics in Flight Vehicle Structures	3:0:3(6)	Fall			
	AE850	B8.850	Special Topics in Flight Mechanics and Control	3:0:3(6)	Fall			

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	AE890	B8.890	Special Topics in Aerospace Engineering	3:0:3(6)	Spring,Fall	
Research	AE960	B8.960	Thesis(M.S. Program)		Spring,Fall	
	AE980	B8.966	Seminar(M.S. Program)		Spring,Fall	
	AE966	B8.980	Thesis(Ph.D Program)	1:0:1	Spring,Fall	
	AE986	B8.986	Seminar(Ph.D Program)	1:0:1	Spring,Fall	

©: Course mutually recognized by undergraduate and graduate programs

※Course classification, course title, and mutual recognition of credits may differ according to the effective year of the requirements.