BSAE Program Course Prerequisite List

		C- or better is required in all prerequisite classes	Co-requisites
Math 30	Calculus I	Satisfactory score on Math Placement Test ***or*** "B" or better in Math19	
Math 31	Calculus II	Math30 or Math30P	
Math 32	Calculus III	Math31	
Math 129A	Linear Algebra I	Math31	
Math 133A	Ordinary Differential Eqs.	Math32	
Chem 1A	General Chemistry	HS Chemistry ***or*** "C" or better in Chem10	Eligible for Engl.1A
Phys 50	Gen. Physics / Mechanics	Math30 or Math30P	
Phys 51	Gen. Physics / Elec. & Magnet.	Phys50	
Phys 52	Gen. Physics / Heat & Light	Phys51	
Engr10	Intro to Engineering	HS Algebra, Geometry & Trigonometry	
AE 15	AE: Past, Present & Future	None	
AE 20	CAD for AEs	None	
AE 30	Comp. Programming for AEs	None	
MatE 25	Intro to Materials	Chem1A, Phys50, Math31	
EE 98	Intro to Circuit Analysis	Engr10, Phys51	Math133A
Engr100W	Engineering Reports	Completion of Core GE, Pass WST, Upper Division Standing	
AE 110	Space Systems Engineering	AE165	
AE 112	Aero Structural Analysis I	Math133A, Phys050	MatE25, Engr100W
AE 114	Aero Structural Analysis II	MatE25, AE112	
AE 138	Dynamics	Math32, Phys050	AE112
AE 140	Rigid Body Dynamics	AE138	
AE 157	Aero Auto. Syst. Con. Design	Math129A, Math133A, AE138	
AE 160	Aerodynamics I	Math32, Phys50	E100W
AE 162	Aerodynamics II	Math133A, AE160, E100W	
AE 164	Compressible Flow	Phys052, AE160	
AE 165	Aerospace Flight Mechanics	AE138	AE162
AE 167	Aerospace Propulsion	AE160, AE164	
AE 168	Aero Vehicle Dyn. & Control	Math129A, AE140, AE157, AE165,	
AE 169	Comp. Fluid Dynamics	Math129A, AE160	
AE 171A	Aircraft Design I	AE20, AE114, AE162, AE165, E100W, Senior in good standing!	AE164, AE168, Engr195A
AE 171B	Aircraft Design II	AE164, AE168, AE171A, Engr195A, Senior in good standing!	AE167, AE169, Engr195B
AE 172A	Spacecraft Design I	AE20, AE114, AE162, AE165, E100W, Senior in good standing!	AE164, AE167, AE168
AE 172B	Spacecraft Design II	AE164, AE168, AE171A, Engr195A, Senior in good standing!	AE167, AE169, Engr195B
AE 180	Individual Studies	Upper Div. Standing & Instructor Consent	
Engr195A	Global & Soc. Issues in Engr. I	Engr100W	AE171A or AE172A
Engr195B	Global & Soc. Issues in Engr. II	Engr195A	AE171B or AE172B

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