

Fall 2016- Present Aerospace Engineering **Astronautics Concentration** Curriculum Worksheet

Courses listed in the left column represent the fall semester. Courses listed in the right column are taught in the spring semester. All courses beginning with the ASE symbol are taught in the term listed. At the beginning of your Junior year you must declare a concentration.

	Name		Transfer from		Fall Semester		Spring Semester	
					Sym/Num	Course Title	Term	GRD
Freshman	ASE 1013	Intro to Aerospace Engineering <i>(credit or co-registration in MA 1713)</i>			ASE 2013	Astro, Prop & Structures <i>(ASE 1013 and a grade of C or better in MA 1713 and credit or registration in MA 1723 and PH 2213)</i>		
	CH 1211	Invest in Chemistry <i>(Prior credit or concurrent enrollment in CH 1213)</i>			EN 1113 or EN 1173	English Composition II <i>(EN 1103, EN 1163, or EN 1183)</i> Accelerated Comp II <i>(EN 1163 or an ACT sub-score in English of 28 or higher)</i>		
	CH 1213	Chemistry I <i>(ACT Math subscore 24 or grade of C or better in MA 1313)</i>			MA 1723	Calculus II <i>(Grade of C or better in MA 1713)</i>		
	EN 1103	English Composition I <i>(A score of 19 or above on the English section of the ACT or EN 0103).</i>			PH 2213	Physics I <i>(Grade of C or better in MA 1713)</i>		
	MA 1713	Calculus I <i>(ACT Math subscore 26, or grade of C or better in MA 1323 or MA 1453)</i>			___ 3	Humanities Elective <i>(Core Curriculum)</i>		
	___ 3	Humanities Elective <i>(Core Curriculum)</i>			___ 3	Social/Behavioral Science Elective <i>(Core Curriculum)</i>		
	16 Semester Hours			18 Semester Hours				
Sophomore	ASE 2113	Aircraft & Spacecraft Performance <i>(ASE 2013 and grade of C or better in MA 1723 and PH 2213)</i>			EM 2433	Engineering Mechanics II <i>(Grade of C or better in EM 2413 and MA 2733)</i>		
	EM 2413	Engineering Mechanics I <i>(Grade of C or better in MA 1723 and PH 2213)</i>			EM 3213	Mechanics of Materials <i>(Grade of C or better in EM 2413 and MA 2733)</i>		
	MA 2733	Calculus III <i>(Grade of C or better in MA 1723)</i>			MA 2743	Calculus IV <i>(Grade of C or better in MA 2733)</i>		
	PH 2223	Physics II <i>(PH 2213 and MA 1723)</i>			MA 3253	Differential Equation I <i>(MA 2743 or coregistration in MA 2743)</i>		
	MA 3113	Intro to Linear Algebra <i>(MA 1723)</i>			PH 2233	Physics III <i>(PH 2223)</i>		
	___ 3	Social/Behavioral Science Elective <i>(Core Curriculum)</i>			___ 3	Fine Arts Elective <i>(Core Curriculum)</i>		
	18 Semester Hours			18 Semester Hours				
Junior	ASE 3233	Aerospace Structural Analysis I <i>(Grade of C or better in EM 3213)</i>			ASE 3243	Aerospace Structural Analysis II <i>(Grade of C or better in ASE 3233)</i>		
	ASE 3333	Aerothermodynamics <i>(Grade of C or better in MA 2733 and PH 2213)</i>			ASE 3823	Spacecraft Attitude Dynamics <i>(EM 3413 and credit or registration in ASE 3813)</i>		
	ASE 3813	Intro to Orbital Mechanics <i>(Grade of C or better in EM 2433, MA 3253 and MA 3113)</i>			EM 3313	Fluid Mechanics <i>(Grade of C or better in EM 2413 and MA 2733)</i>		
	ECE 3413	Intro to Electronic Circuits <i>(Grade of C or better in both MA 1723 & PH 2223)</i>			GE 3513	Technical Writing <i>(Completion of English Composition requirements; junior standing)</i>		
	EM 3413	Vibrations (FALL ONLY) <i>(Grade of C or better in EM 2433, MA 3253 and MA 3113)</i>			___ 3	Math/Science Elective		
	15 Semester Hours			15 Semester Hours				
Senior	ASE 4113	ASE Engineering Lab I <i>(Credit or registration in EM 3413 and GE 3513)</i>			ASE 4443	Spacecraft Propulsion <i>(ASE 3333 and ASE 4343)</i>		
	ASE 4123	Aerospace Controls <i>(ASE 3123 or ASE 3823)</i>			ASE 4543	Spacecraft Design II <i>(ASE 4533)</i>		
	ASE 4343	Comp Aerodynamics <i>(ASE 3333 & Grade of C or better in EM 3313)</i>			ASE 4721	ASE Engineering Lab II <i>(ASE 4113)</i>		
	ASE 4533	Spacecraft Design I <i>(ASE 3243, ASE 3813, ASE 3823)</i>			___ 3	Technical Elective		
	ASE 4623	Aerospace Structural Design <i>(ASE 3243)</i>			___ 3	Technical Elective		
	15 Semester Hours			13 Semester Hours				