OCCC Engineering - Transfer to OU Aerospace Engineering
Associate in Science 3/21/2016

Year	FIRST SEMESTER	HRS	SECOND SEMESTER	HRS
FRESHMAN	**OCCC**		**OCCC**	
	MATH **2104**, Calculus and Analytic Geometry I	4	MATH **2214**, Calculus and Analytic Geometry II	4
	CHEM **1115**, General Chemistry I	5	PHYS **2014**, Engineering Physics I	4
	ENGL **1113**, English Composition I	3	ENGL **1213**, English Composition II	3
	SCL **1001**, Success in College Life	1	HIST U.S. History Elective	3
	ENGR **1113**, Introduction to Engineering	3	CS **1143**, Beginning Programming	3
	TOTAL CREDIT HOURS	16	**TOTAL CREDIT HOURS**	17
SUMMER	**OCCC SUMMER/INTERSESSION/ONLINE**			
	ENGR **2243**, *Statics*	3	*Apply to OU Professional School before Enrolling in 1st Semester Junior Year (3.0 GPA beginning with incoming freshmen Summer 2015)*	
	PSY **1113**, *Intro to Psychology* **(OR)**	3		
	SOC **1113**, *Intro to Sociology*			
	Applies to Social Sciences at OU			
	TOTAL CREDIT HOURS	6		
SOPHOMORE	**OCCC**			
	MATH **2314**, Calculus and Analytic Geometry III	4	**OU**	
	PHYS **2114**, Engineering Physics II	4		
	ENGR **2333**, *Thermodynamics*	3	•AME **2223**, Intro to Aerospace Engineering	3
	ENGR **2523**, *Dynamics*	3	ENGR **3511**, Transfer Students	1
	HUM **1113**, *Music Appreciation* **(OR)**	3	+MATH **3413**, Physical Mathematics I	3
	ART **1053**, *Art Appreciation* **(OR)**		MATH **3401**, Numerical Methods with MATLAB	1
	HUM **2243**, *Film Studies*		•AME **2303**, Materials, Design & Mfg Processes	3
	Applies to Artistic Forms Humanity at OU		•AME **2623**, Circuits and Sensors	3
	TOTAL CREDIT HOURS	17	**TOTAL CREDIT HOURS**	14
SUMMER	**OCCC SUMMER/INTERSESSION/ONLINE**			
	GEOG **2603**, *World Regional Geography*	3	*Students starting college in Summer 2015 or later need 3.0 GPA and minimum of "C" in: Calc I & II, Chem I, and Engr. Phys. I*	
	Applies to Western Civilization Humanity at OU			
	POLSC **1113**, American Federal Government	3		
	TOTAL CREDIT HOURS	6		
JUNIOR	**OU (Admitted to Professional Program)**		**OU**	
	AME **3112**, Solid Mechanics Lab	2	AME **3103**, Interactive Engr Design Graphics	3
	AME **3143**, Solid Mechanics	3	AME **3333**, Flight Mechanics	3
	AME **3253**, Aerodynamics	3	AME **3523**, Aerospace Structural Analysis	3
	AME **3272**, Wind Tunnel Lab	2	AME **3623**, Embedded Real-Time Systems	3
	AME **4383**, Control Systems	3	ENGL **3153**, Technical Writing	3
	ENGR **2002**, Professional Development	3	§Approved Experimental Elective	2
	TOTAL CREDIT HOURS	16	**TOTAL CREDIT HOURS**	17
SENIOR	**OU**		**OU**	
	AME **4243**, Aerospace Propulsion Systems	3	AME **4373**, Aerospace Systems Design II (Capstone)	3
	AME **4273**, Aerospace Systems Design I	3	#AME **Approved Technical Elective**	3
	AME **4493**, Space Sciences and Astrodynamics	3	ANTH **4623**, Approaches to Cross-Cultural Human	3
	AME **4513**, Flight Controls	3	Problems (or advisor approved sub.)	
	#AME **Approved Technical Elective**	3	*Non-Western Culture (Core IV)*	
			COMM **3513**, Intercultural Communication	3
	TOTAL CREDIT HOURS	15	**TOTAL CREDIT HOURS**	12

Required Courses for Admittance to Professional Program with 2.8 GPA	
•AME Courses are Sequential & offered only in the semester shown.	**OCCC Total Hours:** 62
+Students who take ODE instead of MATH 3413 will need an additional 1-hr self-study	**OU Total Hours:** 74
CS 1143 Handled on a Case-by-Case Basis.	

§ Recommend taking either AME 4802 "Robotics Laboratory" or 4812 "Dynamics & Controls Laboratory" for the Experimental Elective.

 # Recommend taking AME 4623 "Systems Engineering" and/or AME 4593 "Space Systems & Mission Design" as approved Technical Electives.