APPROVED CURRICULUM FOR B.S. DEGREE IN AEROSPACE ENGINEERING SCIENCES (128 total credit hrs)

AY 2018-2019 – TRACK 1

ASEN courses are offered and must be taken in this specific sequence

		Credit Hours	Prerequisite ("C" or better)/ Co-req. (CR)
FRESHMAN YEAR	**Fall Semester**	**15**	
	APPM 1350* Calculus 1 for Engineers	4	2 years high school algebra, 1 year geometry, 1/2 year trigonometry
	GEEN 1400 Engineering Projects/ASEN 1400 Gateway to Space	3	Freshman standing in Engineering
	CSCI 1320** MATLAB and C++ Programming	4	CR or Pre-Requisite of Calculus 1
	Lower-division Humanities/Social Science Elective	3	

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SENIOR YEAR

Fall Semester **16**

ASEN	4013	Foundations of Propulsion	3	"C" or better in APPM 2360, ASEN 3113
ASEN	4018	Senior Projects 1: Design Synthesis **(Note 1)**	4	"C" or better in **all** 3000-level ASEN courses (1022, 3111, 3112, 3113, 3128, 3200, 3300)
Professional Area Electives			6	Variable
Upper-division Writing			3	pre-reqs variable

Spring Semester **16**

ASEN	4028	Senior Projects 2: Design Practicum	4	"C" or better in ASEN 4018
Professional Area Electives			6	Variable
Upper-division Humanities/Social Science Elective			3	Variable
Free Electives			3	Variable

* APPM OR MATH courses accepted

APPM1350=MATH 1300 APPM 2350=MATH 2400

APPM 1360=MATH 2300 APPM 2360=MATH 3430 AND MATH 2130

** Programming is a prerequisite for all ASEN courses =>2000 level. Recommend CSCI 1320 Computer Science 1. All AES students must be proficient in MATLAB

MATLAB Student Version: https://oit.colorado.edu/software-hardware/software-downloads-and-licensing/matlab

Note 1: Senior Projects 1 & 2 must be completed in the same Academic Year. Senior Standing in Aerospace Engineering = satisfactory completion of all junior-level Aerospace course requirements.

Professional Area Electives (PAE): 3000, 4000, or 5000-level Math, Science or Engineering Courses. Total number of PAE credits = 16. Use the Degree Audit to get a full list of approved PAEs.

- Free Electives: Total = 7 credit hrs. Free Electives are courses outside of major/minor coursework.
- Humanities & Social Sciences (HSS): 9 credit hours of lower division (LDHSS), 6 credit hours of upper division (UDHSS), & 3 credit hours of upper division writing (UDWRTG) (students can only take HUEN 1010 in their freshmen year to be used toward the UDWRTG requirement). Total HSS=18 credit hours – all courses must be on the approved list found online.