

# AERONAUTICAL ENGINEERING CURRICULUM

Class of 2018 and Above Updated 6/9/16\*

Student Name:

Student No:

Advisor:

Class:

FALL		GR	FRESHMAN	SPRING		GR	FRESHMAN	
UNIV190 Clarkson Seminar			(F)***	ES110 Engineering and Society(STS)(3cr) <u>or</u> KA Elective (3cr)			(F/S)	
MA131 Calculus I			(F/S)	MA132 Calculus II			(F/S)	
CM131 General Chemistry I (4cr)			(F)	CM132 General Chemistry II <u>or</u> (4cr) BY160 Biology II (3cr)			(S)	
PH131 Fund of Physics I <u>or</u> (4cr) ES110 Engineering and Society(STS) (3cr)			(F/S)	PH131 Fund of Physics I <u>or</u> PH132 Fund of Physics II			(F/S) (F/S)	
FYS (1cr)			(F)	ES100 Intro to Engr Use of Compu (2cr)			(S)	
GPA=		CUM GPA =		STATUS =		GPA=		
CUM GPA =		STATUS =		GPA=		CUM GPA=		
STATUS =		GPA=		CUM GPA=		STATUS=		
FALL		GR	SOPHOMORE	SPRING		GR	SOPHOMORE	
ES220 Statics			(F/S)	ES222 Strength of Materials			(F/S)	
ES260 Materials Science (TECH)			(F/S)	ES223 Rigid Body Dynamics			(S)	
MA232 Elem Differential Equations			(F/S)	AE212 Intro to Engineer Design			(S)	
PH132 Fund of Physics II <u>or</u> ES250 Electrical Science			(F/S) (F/S)	MA231 Calculus III			(F/S)	
KA/UC Elective			(F/S)	KA/UC Elective <u>or</u> ES250 Electrical Science			(F/S)	
				AE201 Intro Exp Meth in AE (C2) (1cr)			(S)	
GPA=		CUM GPA=		STATUS=		GPA=		
CUM GPA=		STATUS=		GPA=		CUM GPA=		
STATUS=		GPA=		CUM GPA=		STATUS=		
FALL		GR	JUNIOR	SPRING		GR	JUNIOR	
ES330 Fluid Mechanics			(F/S)	AE/ME425 Aerodynamics			(S)	
ES340 Thermodynamics			(F/S)	AE429 Aircraft Perf & Flight Mech			(S)	
AE350 Aircraft Structures			(F)	AE458 Design of Aircraft Structures			(S)	
Professional I Elective•				MA330** Advanced Eng Math			(F/S)	
AE/ME455 Mech Vibrations & Control			(F)	AE401 Aero Eng. Lab III (1cr)			(S)	
AE301 Exp Meth in AE (C2) (1cr)			(F)	Undesignated Elective				
				ES499 Professional Experience (0cr)				
GPA=		CUM GPA=		STATUS=		GPA=		
CUM GPA=		STATUS=		GPA=		CUM GPA=		
STATUS=		GPA=		CUM GPA=		Status=		
FALL		GR	SENIOR	SPRING		GR	SENIOR	
AE450 Aircraft Design I (C1)			(F)	AE451 Aircraft Design II (TECH)			(S)	
AE430 Stab Control of Aerospace Vehicles			(F)	AE427 Design of Propulsion Sys (C2)			(S)	
AE/ME 431 Gas Dynamics			(F)	Professional Elective••				
Professional Elective••				KA/UC Elective				
Economics Elective								
GPA=		CUM GPA=		STATUS=		GPA=		
CUM GPA=		STATUS=		GPA=		CUM GPA=		
STATUS=		GPA=		CUM GPA=		STATUS=		
<b>Knowledge Areas**** and Comm. Pts. If any</b> <b>(Four Knowledge Areas Required)</b> CGI <input type="checkbox"/> IA <input type="checkbox"/> CSO <input type="checkbox"/> IG <input type="checkbox"/> EC <input type="checkbox"/> STS <input type="checkbox"/>			<b>University Course</b> <b>(One UC Course Required)</b>  UC <input type="checkbox"/> (Not to be taken by Freshman)			<b>Professional Experience Paperwork:</b> <input type="checkbox"/> Pre-Approval Form  <input type="checkbox"/> Completion Form		

\*Superscripts refer to outcomes as per ABET and Clarkson Experience Requirements

\*\* or MA331 and STAT383. \*\*\*Courses offered as follows: F-Fall, S-Spring, F/S – Fall and Spring

\*\*\*\* Students are required to take five courses to fulfill the Knowledge Area (KA) requirements. Of the five, one is a University Course (UC) which covers two KA's.

Note: Many KA's have communications Points (CP)=0. One of the knowledge area electives must be an economics course, EC350 is recommended.

•Professional I Elective – any 200 level or above Math, Science, Engineering or Business Course.

••Professional Elective – any 300 level technical course in Math, Science, Engineering or Business.