

Aerospace Engineering- Code 030T
B.S.A.E. 2+2 with West Virginia University (Morgantown)

First Semester (Montgomery)

ENGL 101	Composition & Rhetoric (GEF F1)	3
WVUE 191	First Year Seminar	1
MATH 155	Calculus I (GEF F3)	4
CHEM 115	Chemistry I (GEF F8)	4
DRET 120	Drafting	<u>2</u>
		14

Second Semester (Montgomery)

ENGL 102	Composition & Rhetoric (GEF F1)	3
ENGR 111	Software Tools for Engineers	3
MAE 241	Statics	3
MATH 156	Calculus II (GEF F8)	4
GEF F5	Human Inquiry & the Past	<u>3</u>
		16

Third Semester (Montgomery)

MAE 242	Dynamics	3
MAE 243	Mechanics of Materials	3
MATH 251	Multivariable Calculus	4
PHYS 111	General Physics I (GEF F2)	4
GEF F6	The Arts & Creativity	<u>3</u>
		17

Fourth Semester (Montgomery)

MAE 331	Fluid Mechanics	3
MAE 320	Thermodynamics	3
MATH 261	Elementary Differential Equations	4
PHYS 112	General Physics II (GEF F2)	4
ECON 201	Microeconomics (GEF F4)	<u>3</u>
		17

Fifth Semester (Morgantown)

MAE 215	*Intro to Aerospace Engr	3
MAE 316	Analysis of Engineering Systems	3
MAE 335	*Incompressible Aerodynamics	3
MAE 343	Intermed Mechanics of Materials	3
ECON 202	Macroeconomics (GEF F8)	<u>3</u>
		15

Sixth Semester (Morgantown)

MAE 336	*Compressible Aerodynamics	3
MAE 345	*Aerospace Structures	3
MAE 365	*Flight Dynamics	3
MAE 244	Dynamics & Strength Lab	1
EE 221	Intro to Electrical Engineering	3
EE 222	Intro to Electrical Engineering Lab	<u>1</u>
		14

Seventh Semester (Morgantown)

MAE 426	*Flight Vehicle Propulsion	3
MAE 434	*Experimental Aerodynamics	2
MAE 456	*CAD/Finite Element Analysis	3
MAE 476	*Space Flight and Systems	3
	**Technical Elective(s)	<u>3</u>
		14

Eighth Semester (Morgantown)

MAE 423	Heat Transfer	3
MAE 460	Automatic Controls	3
MAE 475	*Flight Vehicle Design	3
GEF F7	Global Studies & Diversity	3
	**Technical Elective(s)	<u>3</u>
		15

**Taught at WVU campus only in the semester indicated.*

(i) Six hours of technical electives must be selected from a list of approved Aerospace Engineering technical electives after consulting with the advisor; the courses selected should form a clear and consistent pattern according to the career objectives of the student.

(ii) GEFs F5, F6, and F7 must be selected from the approved list of courses to meet the University and the College GEF requirements. **All Electives must be approved by your advisor.**

Total Hours: 122