

# North Carolina State University

## Aerospace Engineering Curriculum (Effective 07-01-2017)

### 1 + 3 Program with UNC Asheville

FALL SEMESTER

SPRING SEMESTER

#### Freshman Year (UNC Asheville)

MATH 191	Calculus I	4	MATH 192	Calculus II	4
LANG 120	Academic Writing & Crit Inquiry	4	ECON 102	Prin of Microeconomics (GEP)	3
CHEM 111	General Chemistry Lab	1	PHYS 221	Physics I	4
CHEM 132	General Chemistry	3	XXX	GEP Course	3
E 101	Intro to Engr & Prob Solv	1	XXX	GEP Course	<u>3</u>
XXX	GEP Course	<u>3</u>			<u>17</u>
		<u>16</u>			

#### Sophomore Year (NC State)

MA 242	Calculus III	4	MA 341	Appl Differential Equations I	3
MAE 206	Engineering Statics	3	MAE 208	Engineering Dynamics	3
MAE 250	Intro Aero Engineering	1	E 102	Engr in 21 <sup>st</sup> Century (GEP)	2
MAE 251	Aero Vehicle Performance	3	MAE 252	Aerodynamics I	3
PY 208	Physics for Engrs & Sci II	3	MAE 253	Experimental Aerodynamics I	1
PY 209	Physics for Engrs & Sci II Lab	1	CSC 113	Intro Computing - MATLAB	3
E 115	Intro to Computing Environ	1	GC 120	Found of Graphics	<u>3</u>
HES XXX	Health Exercise Studies	<u>1</u>			<u>18</u>
		<u>17</u>			

#### Junior Year (NC State)

MAE 201	Engr Thermodynamics I	3	MAE 351	Aerodynamics II	3
MAE 361	Dynamics & Controls	3	MAE 352	Experimental Aerodynamics II	1
MAE 371	Aerospace Structures I	3	MA XXX	Math Elective	3
MAE 372	Aerospace Vehicle Struc Lab	1	MAE 214	Solid Mechanics	3
XXX	English Elective	3	MAE XXX	Flight/Space Elective	3
XXX	GEP Course (IP: Ethics Elective)	<u>3</u>	MAE XXX	Structures Elective	<u>3</u>
		<u>16</u>			<u>16</u>

#### Senior Year (NC State)

MAE 405	Controls Lab	1	MAE 481	Aerospace Vehicle Design II	3
MAE 435	Prin of Automatic Control	3	XXX	GEP Course	3
MAE 451	Experimental Aerodynamics III	1	MAE XXX	Technical Elective	3
MAE 480	Aerospace Vehicle Design I	3	MAE XXX	Flight/Space Elective	3
MAE XXX	Propulsion Elective	3	HESF XXX	Health Exercise Studies	<u>1</u>
MAE XXX	Technical Elective	<u>3</u>			<u>13</u>
		<u>14</u>			

Total hours shown: 127

*Italics* indicates the course is received from NC State by distance education technology (none).