

|                  | Fall Semester                                    |                      | Spring Semester   |
|------------------|--|----------------------|---|
| <b>Freshman</b>  |  |                      |   |
|                  | ASE 1013 Intro to Aerospace Engineering          | CSE 1233<br>CSE 1284 | Computer Programming or *<br>Intro Computer Programming |
|                  | CH 1211 Invest in Chemistry                      | EG 1143              | Graphic Communication                                   |
|                  | CH 1213 Chemistry I                              | EN 1113              | English Composition II                                  |
|                  | EN 1103 English Composition I                    | MA 1723              | Calculus II   |
|                  | MA 1713 Calculus I                               | PH 2213              | Physics I   |
|                  | ___ 3 Humanities Elective                        |                      |   |
|                  | 16 hours   |                      | 15/ 16 hours  |
| <b>Sophomore</b> |  |                      |   |
|                  | ASE 2113 Aircraft & Spacecraft Performance       | ASE 2711             | Aerospace Lab I   |
|                  | EM 2413 Engineering Mechanics I                  | EM 2433              | Engineering Mechanics II                                |
|                  | MA 2733 Calculus III                             | EM 3213              | Mechanics of Materials                                  |
|                  | MA 3113 Intro to Linear Algebra                  | EM 3313              | Fluid Mechanics   |
|                  | PH 2223 Physics II                               | MA 2743              | Calculus IV   |
|                  |  | MA 3253              | Differential Equation I                                 |
|                  | 15 hours   |                      | 16 hours  |
| <b>Junior</b>    |  |                      |   |
|                  | ASE 3233 Aerospace Structural Analysis I         | ASE 3731             | Aerospace Lab III                                       |
|                  | ASE 3313 Incompressible Aerodynamics             | ASE 3823             | Spacecraft Attitude Dynamics #                          |
|                  | ASE 3333 Aerothermodynamics                      | ASE 4343             | Compressible Aerodynamics                               |
|                  | ASE 3721 Aerospace Lab II                        | ASE 4623             | Aerospace Structural Design                             |
|                  | ASE 3813 Intro to Orbital Mechanics              | ___ 3                | Humanities Elective                                     |
|                  | EM 3413 Vibrations                               | ___ 3                | Math/Science Elective !                                 |
|                  | 16 hours   |                      | 16 hours  |
| <b>Senior</b>    |  |                      |   |
|                  | ASE 4123 Aerospace Controls                      | ASE 4543             | Spacecraft Design II #                                  |
|                  | ASE 4313 Intro to Aerospace Propulsion           | ASE 4722             | ASE Capstone II   |
|                  | ASE 4533 Spacecraft Design I #                   | ___ 3                | Creative Discovery                                      |
|                  | ASE 4712 ASE Capstone I                          | ___ 3                | Social/Behavioral Science Elective                      |
|                  | GE 3513 Professional Communication for Engineers | ___ 3                | Technical Elective !                                    |
|                  | ___ 3 Social/Behavioral Science Elective         | ___ 3                | Technical Elective !                                    |
|                  | 17 hours   |                      | 17 hours  |

\* CSE has a 3 hour or 4-hour course

# Denotes concentration specific courses

! Approved courses are listed on ASE website

Courses with ASE symbol are only taught in the semester of listing  
EM 3413 only taught in the fall