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**PHYSICS (2/3 unit)** Courses with prefix: PH
- 22 PH 1110/1111/2201 (Mechanics) 1/3
- 23 PH 1120/1121 (E&M) 1/3

**CHEMISTRY (1/3 unit)** Course with prefix: CH
- 24 CH 1010 (Chem 1) or 1020 (Chem 2) 1/3

**SPACE ENVIRONMENTS (1/3 unit)**
- 25 PH 2550 Atmospheric and Space Env 1/3

**ENGINEERING SCIENCE AND DESIGN (20/3 units)**

**Aerodynamics (2/3 unit)**
- 26 AE 3410 Compressible Fluid Dyn. 1/3
- 27 AE 3711 Aerodynamics 1/3

**Aerospace Materials (2/3 unit)**
- 28 ES 2001 Intro to Materials 1/3
- 29 AE 4717 Fund. of Comp. Mat. 1/3

**Structures (1 unit)**
- 30 AE 2712 Intro to Aerospace Structures 1/3
- 31 AE 3712 Aerospace Structures 1/3
- 32 AE 4712 Structural Dynamics 1/3

**Propulsion (1 unit)**
- 33 ES 3001 Intro to Thermodynamics 1/3
- 34 AE 3602 Incompressible Fluids 1/3
- 35 AE 4711 Fundamentals of Air Breathing Propulsion 1/3

**Flight Mechanics, and Stability and Control (1 unit)**
- 36 ES 2503 Intro to Dynamic Systems 1/3
- 37 AE 3713 Intro to Aerospace Control Systems 1/3
- 38 AE 4723 Aircraft Dynamics & Control 1/3

**Major Design Experience (1 unit)**
- 39 AE 4770 Aircraft Design 1/3

**ASTRONAUTICAL ENGINEERING (2/3 unit)**

**Orbital Mechanics and Space Environments (1/3 unit)**
- 40 AE 2713 Astronautics 1/3

**Telecommunications (1/3 unit)**
- 41 AE 4733 Guidance, Navig., and Comm. 1/3

**Experimentation (1/3 unit)**
- 42 ME 3901 or ME 3902 Engineering Experimentation 1/3

**Aerospace Design – Major Qualifying Project (1 unit)**
- 43
- 44
- 45

**MATHEMATICS AND BASIC SCIENCES (10/3 units)**

**MATHEMATICS (6/3 unit)** Courses with prefix: MA
- 16 MA 1021 (Calc 1) 1/3
- 17 MA 1022 (Calc 2) 1/3
- 18 MA 1023 (Calc 3) 1/3
- 19 MA 1024 (Calc 4) 1/3
- 20 MA 2051 (Diff Eqs) 1/3
- 21 MA 2071 Matrices and Linear Algebra 1/3