

## **AE Specialty: Space and Science**

*The following courses are suggested for AE majors who want their degree to reflect their interest in becoming modern scientists/engineers by emphasizing topics in both spacecraft engineering and space science applications.*

### **AE Options:**

- AE 4361 – Space Flight Operations
- AE 4580 – Introduction to Avionics Integration
- AE 4803 – Robotics and Autonomy
- AE 4803 – Planetary Spacecraft Development
- AE 4803 – Space Instrumentation for Life Detection

### **Math:**

- MATH 4581 – Classical Mathematical Methods in Engineering

### **Free Electives:**

- PHYS 2021 – Solar System Physics
- PHYS 3021 – Stellar Astrophysics
- EAS 4803 – Land Remote Sensing

### **Humanities Elective:**

- PHIL 3115 – Philosophy of Science
- PHIL 3109 – Engineering Ethics
- LMC 3310 – Rhetoric Sci Inquiry

### **Social Science Elective:**

- HTS 2100 – Science, Technology & The Modern World
- INTA 3043 – Space Policy