AERSP 309
ASTRONAUTICS

Online
Summer 2015
May 18 – Aug 13
Schedule Number: 612835
Open to all campuses

Instructor: Brad Sottile bsottile@psu.edu

Prerequisites: EMch 212, CmpSc 200, 201 or 121, Math 250 or 251

Course Description: This is required course for aerospace engineering majors, but can be used as an elective in some other majors (check with your adviser). The course is focused on spaceflight mechanics, covering topics in 3D rotational kinematics and dynamics, orbital mechanics, orbit transfers, satellite attitude dynamics and control, and the space environment.

The course runs for 12 weeks (May 18-Aug 13).
Each online lesson includes practice problems for the student – these are not graded, but a quiz at the end of each lesson relies on a full understanding of the practice problems.

Grading will be based upon quizzes (13%), tests (50%), projects (12%) and a final comprehensive exam (25%).