ASEN 50186028 Graduate Projects Department of Aerospace Engineering Sciences Syllabus, Fall 2021

CourseCoordinato: Dr. Nicholas Rainville/AERO219/3084927814 nicholas rainville@ coloradoedu

- Cause Teaching Assistant: Kyle Johnson kyle jahrson 5@ adaaabedu
- LectureSection ASEN 5018-800/6028800 Marchy 1640-1730 AERO 120
- Lab Section ASEN 5018807/6028807, Human Spacecraft Design Section Section Advise: Col. JimVoss/AERO224L/jimvoss@coloradbedu Tuesday, Thusday 11:30-1320
- Lab Section ASEN 5018-802/6028802, Satellite Timing System Section Advise: Prof. Perima Axeliad/TBD/perima aveliad@coloradoedu Tuesday, Thusday 900–1050
- Lab Section ASEN 5018-808/6028808; Cubesats for Space Science Section Advise: Prof. Bob Mashell / AFRO 224L/10bert mashell@coloradoedu Manday, Wednesday 14:20-16:10
- Lab Section ASEN 5018-808/6028808 Maxvell and SWARMEX Cubesats Section Adviser: Prof. Scott Palo/AERON250/palo@coloarbedu Monday, Wednesday 1350–1540
- Lab Section ASEN 5018-806/6028806 ADCS for Astrophysics Applications Section Advise: Dr. Dan Kubitschek/AERO2221L/dariel.kubitschek@ laspedoacbedu Turschy, Thuschy 1500–1650

Cause Text: Curtis R. Cock, <u>List Encugh Project Management</u>, McGraw Hill. 2005

ConsePrecuisite Remission of labsedianinstructor Completion of, or current enclinent in an eof the following courses as related to the specific lab project of interest is encouraged ASEN 5158Space Habitat Design, ASEN 5148Space at Design, ASEN 4138 Aircraft Design, Completion of, or current enclinent in ASEN 5188Space Systems Engineering is also recommended Non AES student enclinent is encouraged. Comment encolment in ASEN 401828, Senior Design, is discouraged, but may be allowed with consent of the section instructor.

Course Purpose The Graduate Projects two semister course sequence is designed to expose gaduate students to engineering project work through project management, systems engineering and subsystem level design and testing Students will work on complex, hands on projects related to the focus areas in the acceptoce engineering sciences department: Acceptoce Engineering Systems, Astrodynamics and Satellite Navigation Systems, Bioastronautics, and Remote Sensing Earthand Space Sciences Students completing this course series will be better prepared for the type of project work and team dynamics they will encountering overment and industry.

ConseObjectives Students will participate in and be exposed to Project Management, Systems Engineering Formal reviews Project documentation Technical contribution to complex engineering project Build, Test, Verify Leadership (ASEN 6028) **Requirements for COVID 19**

As an atter of public health and safety due to the partenic; all members of the CU Boulder commity and all visitors to campus must follow university, department and building requirements and all public health or descriptioned rectine risk of speeding infectious disease Students who fail to achieve to these requirements will be asked to leave days, and students who don't leave days when asked or who refuse to comply with these requirements will be referred to <u>Student Conduct and Conflict Resolution</u>. Formule information, see the publicy on **HararCade**

All students enclled in a University of Coloardo Boulder course are responsible for knowing and adming to the Honr Code academic integrity policy. Violations of the Honr Code may include, but are not limited to plagiaism, cheating fabrication, lying bibery, theat, unauthorized access to academic materials, dicker fixed, submitting the same or similar work in more than one course without permission from all course instructors involved, and adding