Physics 4175-006 Computational Dynamics

James T. Adams, Ph.D.
Professor, Dept. of Physics, Engineering and Astronomy
Office: 207O, STEM Bldg., Email: adamsjt4@sfasu.edu, Phone: 936-468-2064 Office
Student Hours: MTW 2:00-4:00, or by appointment

Purpose
Physics 4175 Special Problems involves experimental or theoretical independent study in physics. The purpose of this special problems course is to give the student experience in the physics and computer simulation involved in the simulation of orbital dynamics for a simple multibody system.

Assignments
Students will put in three hours per week for each hour registered. Students will keep a laboratory journal which includes: literature searches, data collected, procedures used, analysis and conclusions of their work. The student will provide the instructor a copy of all electronic data collected or generated for this course. The student will write a 1-2 page summary of their work by the end of the semester. The grade for the course will be based on the instructor’s observation and evaluation of the student’s laboratory work and the completion of the aforementioned assignments.

Meeting times are to be determined by the professor and the student requesting the course. The student will work in the lab three hours per week for each hour registered. The student will meet weekly with the instructor at an agreed upon time. Thus the course calendar is also set by mutual agreement between the instructor and the student.

Students with Disabilities
To obtain disability related accommodations, alternate formats and/or auxiliary aids, students with disabilities must contact the Office of Disability Services (ODS), Human Services Building, and Room 325, 468-3004 / 468-1004 (TDD) as early as possible in the semester. Once verified, ODS will notify the course instructor and outline the accommodation and/or auxiliary aids to be provided. Failure to request services in a timely manner may delay your accommodations. For additional information, go to http://www.sfasu.edu/disabilityservices.

Academic Integrity (A-9.1)
Abiding by university policy on academic integrity is a responsibility of all university faculty and students. Faculty members must promote the components of academic integrity in their instruction, and course syllabi are required to provide information about penalties for cheating and plagiarism as well as the appeal process. Definition of Academic Dishonesty Academic dishonesty includes both cheating and plagiarism.
Cheating includes, but is not limited to: (1) using or attempting to use unauthorized materials to aid in achieving a better grade on a component of a class; (2) falsification or invention of any information, including citations, on an assignment; and/or (3) helping or attempting to help another in an act of cheating or plagiarism. Plagiarism is presenting the words or ideas of another person as if they were your own. Examples of plagiarism include, but are not limited to: (1) submitting an assignment as if it were one's own work when, in fact, it is at least partly the work of another; (2) submitting a work that has been purchased or otherwise obtained from the Internet or another source; and (3) incorporating the words or ideas of an author into one's paper or presentation without giving the author due credit. Please read the complete policy at http://www.sfasu.edu/policies/academic_integrity.asp and http://www.sfasu.edu/policies/academic_appeals_students.asp Penalties may include no credit or failure in the course.

Withheld Grades - Semester Grades Policy (A-54)
At the discretion of the instructor of record and with the approval of the academic chair/director, a grade of WH will be assigned only if the student cannot complete the course work because of unavoidable circumstances. Students must complete the work within one calendar year from the end of the semester in which they receive a WH, or the grade automatically becomes an F. If students register for the same course in future semesters, the WH will automatically become an F and will be counted as a repeated course for the purpose of computing the grade point average. The circumstances precipitating the request must have occurred after the last day in which a student could withdraw from a course. Students requesting a WH must be passing the course with a minimum projected grade of C.

Acceptable Student Behavior
Classroom behavior should not interfere with the instructor’s ability to conduct the class or the ability of other students to learn from the instructional program (see the Student Conduct Code, policy D-34.1). Unacceptable or disruptive behavior will not be tolerated. Students who disrupt the learning environment may be asked to leave class and may be subject to judicial, academic or other penalties. This prohibition applies to all instructional forums, including electronic, classroom, labs, discussion groups, field trips, etc. The instructor shall have full discretion over what behavior is appropriate/inappropriate in the classroom. Students who do not attend class regularly or who perform poorly on class projects/exams may be referred to the Early Alert Program. This program provides students with recommendations for resources or other assistance that is available to help SFA students succeed. http://www.sfasu.edu/policies/student_conduct_code.asp
General Education Core Curriculum Objectives/Outcomes (EEO)
This course is not included in the general education core curriculum. Therefore, please see the learning outcomes above rather than any Exemplary Educational Objectives (EEOs).