Lecture hours:  Mon., Wed., & Fri.: 10:10 AM – 11:00 AM
Lecture room:  109 SHL
Web page:  http://www.physics.udel.edu/~szalewic/teach/419/
Instructor:  Krzysztof Szalewicz, 121 SHL, phone: 831 6579, szalewic@udel.edu
Office hours:  one hour after class or by appointment
Teaching assistant:  Han Zou, 310 SHL, phone: 831 1659, zouhan@udel.edu
Office hours:  Wed. 5-6 PM, Thur. 1:30-2:30 PM
       (Ch. 1-8 and 13 with some small omissions, fragments of Ch. 10 & 11)
Supplementary  Classical Dynamics by Stephen T. Thornton and Jerry B Marion,
Background  Mechanics by Keith R. Symon, Addison-Wesley, 3rd edition, 1971
texts:  G.B. Thomas and R.L. Finney Calculus and Analytic Geometry,
Advanced  D. Halliday, R. Resnick, and J. Walker (or K.S. Krane)
text:  Fundamentals of Physics, Wiley 1993 or later
       H. Goldstein, C. Poole, J. Safko Classical Mechanics,
Corequisite:  MATH 302 or MATH 341
Exams and quizzes:  Quizes (10-15 minutes)  every Friday, except for 8/31 and exam weeks
           Exam 0 (50 minutes)  Sep. 07
           Exam 1 (50 minutes)  Sep. 28
           Exam 2 (50 minutes)  Nov. 02
           Exam 3 (50 minutes)  Nov. 30
           Final exam (2 hours)  after Dec. 6
Homework:  About 10 problems each week. Normally assigned on Friday,
due the next Friday, returned by the following Friday.
Grading:  Homework:  15%
          Quizes:  15%
          Exam 0:  5%
          Exam 1:  15%
          Exam 2:  15%
          Exam 3:  15%
          Final exam:  20%
Grades will be assigned as follows:
A – 0.75 and above, F – below 0.40, each 0.035 is one grade increment.
All problems will be graded on the scale 0 to 10.

Homework 0 and Exam 0 are intended to advise you about the background required to do well in this course. These will consist of questions from classical mechanics at the level of PHYS207, Fundamentals of Physics I. [Chapters 1-14 and 17 from Resnick, Halliday, and Krane, “Physics”, 5th Edition, Vol. 1]. Exam 0 will be returned to you before the drop/add date.

The other exams will be from the material covered in this course. Three types of problems can be expected. (a) Problems or questions related directly to the material covered in class (note that derivations and proofs are an essential part of this course and will be required on exams). (b) Problems very similar to actual homework problems (therefore it is critical that you spend time to understand solutions deposited in the library if you have not solved the homework problems perfectly by yourself). (c) Problems related to the material covered, but not necessarily similar to any homework problem.

Exams 1–3 will deal with the course material covered in the weeks preceding a given exam (e.g., exam 2 will not repeat subjects contained in exam 1). The final exam will embrace the whole course with emphasis on subjects not covered by exams 1–3. All exams and quizzes will be closed book. Each exam will contribute to your final grade as the ratio of the number of points earned to the maximum number of points, weighted as listed above. The homework and quizzes will contribute as an analogous ratio multiplied by the weight given above.

Homework will be graded only pass or fail. The pass grade will be given even for wrong solutions showing a substantial effort, thus, a pass grade does not mean that your solution is correct. There will be a quiz on each day the homework is due with one problem very similar to the problems of the just submitted homework. There will be no quizzes on exam weeks and on the first week of classes.

Detailed solutions to homework and exam problems will be put on reserve in the physics library. Everybody is strongly advised to compare these solutions with their work.

I will communicate with you by email. Let me know if you are not getting my emails.