PHYS2502 Mathematical Physics Spring 2022

This course covers material in Mathematics that you will need in your undergraduate physics courses. Although the emphasis is on the Mathematics, we will be discussing it in a physical context whenever possible.

INSTRUCTOR: Jim Napolitano email: tuf43817@temple.edu
Office Hours: Wednesdays 1-3pm in SERC 416 or *by appointment*

GRADING: Wesley Deeg email: wesley.deeg@temple.edu

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WEB PAGE: https://phys.cst.temple.edu/~napolj/PHYS2502/

MEETINGS:	SERC 456	Tue 9:30-10:50, Thu 9:30-10:50	(Lecture)
	SERC 456	Mon 14:00-16:50	(Lab)

Please see the course web page for additional information, including links for the following:

∘ Course Notes, which will be updated continuously. I am not requiring any textbook for this class, but the web page includes links to some useful references. The Course Notes contain (in the front matter) a class syllabus, which refers to sections in the notes. I will try to stick with this syllabus, but depending on how things go, I may make some changes on the fly.

∘ Homework Assignments, due every Tuesday (except the first lecture), at the start of class.

∘ Mathematica Labs, due every Tuesday by 8:30am following the lab period. These are straightforward, and you should be able to complete them by the end of the lab period.

Most Thursday classes will begin with a 15-minute quiz, for which you can use your book or other materials, but which you must complete on your own. I will post the quizzes and solutions on the course web page some time after the quiz is given. A final exam will be given at the assigned time during finals week.

GRADING POLICY

Your course grade will be determined by the homework (15%), labs (15%), quizzes (40%), and final exam (30%). Cutoffs for course grades A, B, and C are 90%, 80%, and 70%, respectively. I expect to make some use of "grade modifiers", that is $\pm$ after the grade. I may make other adjustments to the overall grading scheme if there are special circumstances.

LEARNING OUTCOMES

I want you to become familiar with the Mathematics that is necessary for doing well in future Physics courses. I also hope to inspire you to take more courses in Mathematics.

ACADEMIC INTEGRITY STATEMENT

Put simply, don't copy someone else's homework, and don't cheat on the quizzes or final exam. If I suspect you of either, I will ask for an explanation. If your explanation is unsatisfactory, you will be given a grade of zero and reported to the College. If this happens more than once, you will be given an F for the course.