

Phys 3313 – Mechanics (MWF 11:00 am – 11:50 am)

**Instructor:** Dr. Jackie Dunn

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**Textbook:** *Analytical Mechanics* 7<sup>th</sup> ed, by Fowles & Cassidy (ISBN: 978-0534494926) – while the textbook is highly recommended, it is not required (and can be found online as it is out print).

**Office Hours:** By appointment only, to be held via Zoom.

**Grading:** Exams (3 @ 20% each) – 75%, Homework – 20%, Quizzes – 20%

**Course Description:** This course is designed to introduce the student to more advanced concepts from classical mechanics. We will cover coordinate systems, Newton's laws, oscillations, gravity and central forces, rigid body motion, and Lagrangian mechanics.

**Attendance:** Students are required to attend a weekly Zoom meeting on Mondays at 11:00 am (link will be placed on WTCClass). If you are unable to attend the weekly Zoom meeting as scheduled, you need to email Dr. Dunn explaining why so that other arrangements can be made for you to satisfy this component of the course.

**Expectations:** Students should read the chapter, watch all recorded lecture videos, and complete the homework and quizzes. Use of online solutions is considered cheating. Any work you submit should be your own. You may talk to other students in the class for homework assignments, but not for quizzes or exams.

**Late work:** Late work will not be accepted unless there are documented extenuating circumstances. Any exceptions to the late work policy will be decided on a case by case basis by Dr. Dunn.

**Note:** MSU provides students with documented disabilities academic accommodations. If you are a student needing an accommodation, please contact me directly via email.

**Note:** By enrolling in this course, the student expressly grants MSU a "limited right" in all intellectual property created by the student for the purpose of this course. The "limited right" shall include but shall not be limited to the right to reproduce the student's work product in order to verify originality and authenticity, and for educational purposes.

**Exams:** Exams will be due on the dates listed below. Exams will become available on the Monday of the week in which they are due. Late submissions will not be accepted.

Exam 1: September 23, 2022

Exam 2: October 28, 2022

Final Exam: December 2, 2022