202040.42663 PHYS-160-A01 (Summer 2020), University Physics I

TENTATIVE SYLLABUS

ONLINE COURSE, June 1, 2016 - July 4

Instructor:

Dr. Branislav Djordjevic
Room: Virtual, Webex, or Zoom
Email: **bdjordje@gmu.edu**
Office hours: TBD

Recitation instructors:

PHYS 160 3A1 - Dr. Branislav Djordjevic
PHYS 160 3A2 – Dr. Florin Moldoveanu
PHYS 160 3A3 – Dr. Florin Moldoveanu
PHYS 160 3A4 – Dr. Elena Ziu

Tutor: Dr. S. Fisher

Tutor Hours: Check: **https://learningservices.gmu.edu/physics-tutoring/** for tutoring hours & location

Text: ***University Physics, 14th ed.*, Young and Freedman (13th edition is equally fine)**
Blackboard: **202040.42663 PHYS-160-A01 (Summer 2020)**

Homework and Quizzes:

You have two options to purchase access to Mastering, directly from Pearson: **a)** Mastering with e-Book: $119.99, or **b)** Mastering without e-Book: $69.99. **However, you will register for Mastering and later access your homework FROM WITHIN BLACKBOARD**! Your Mastering homework is integrated with your Blackboard course. Never log directly into Mastering website! **First log in your Blackboard course, and then click on** "**Your Mastering Homework & Quizzes**" link in the content. I will post detailed instruction about how to register. All Mastering assignments should be completed by their due dates. NO EXTENSIONS WILL BE GIVEN! YOU NEED TO STAY ON TOP OF THE SCHEDULE throughout this short course. Due dates are given in Mastering.

Graded Assignments:

Midterm Exam	**30 %**
Final Exam	**40 %**
Mastering - Homework	**20 %**
Mastering – Quizzes (Pre-lecture assignments)	**10%**
Recitation is not graded. Will be held on T(4-5 pm) & F (1-2 pm)	**----**
Total	**100**

Grading Scale:	**Percentage**	**Grade**
	97	**A+**
	90	**A**
	87	**B+**
	80	**B**
	77	**C+**
	70	**C**
	60	**D**
	<60	**F**

Tentative Schedule:

WEEK	MONDAY	WEDNESDAY	THURSDAY
1	**6/1** **Chapters 1 & 2**: Introduction, Motion along the straight line; Free Fall	**6/3** **Chapter 3**: Motion in higher dimensions; Projectile Motion; Circular Motion	**6/4** **Chapter 3**: Motion in higher dimensions; Projectile Motion; Circular Motion **Chapter 4**: Newton's Laws
2	**6/8** **Chapter 4**: Newton's Laws **Chapter 5**: Applying Newton's Laws	**6/10** **Chapter 5**: Applying Newton's Laws	**6/11** **Chapter 6**: Work and Kinetic Energy **Chapter 7**: Potential Energy and Energy Conservation
3	**6/15** **Chapter 7**: Potential Energy and Energy Conservation **Review**	**6/17** **Midterm Exam (Ch:1,2,3,4,5,6,7)** **Chapter 8**: Momentum, Impulse, Collisions **Chapter 9**: Rotation of Rigid Bodies	**6/18** **Chapter 9**: Rotation of Rigid Bodies **Chapter 10**: Dynamics of Rotational Motion
4	**6/22** **Chapter 10**: Dynamics of Rotational Motion **Chapter 11**: Equilibrium	**6/24** **Chapter 13**: Gravitation	**6/25** **Chapter 13**: Gravitation (Cont.) **Chapter 14**: Periodic Motion
5	**6/29** **Chapter 14**: Periodic Motion	**7/1** **Chapter 12**: Fluid Mechanics **Review**	**7/3 FRIDAY** **FINAL EXAM (comprehensive)**

Goals and Requirements of the Course:

First semester of three-semester, calculus-based introductory physics sequence, designed primarily for science and engineering majors. The topics covered in this course are in Mechanics. This course also fulfills general education requirement in natural science.

This course is designed to assist students to comprehend the fundamental ideas of mechanics and to help them to apply the basic physical principles appropriately. Furthermore, the students will develop the ability to solve realistic physical problems. The secondary objective of the course is to improve students' symbolic reasoning skills to assist them in further enhancing their analytical skills.

Math 113 is a prerequisite of this course. Students are expected (**with no exception**) to have the knowledge of first semester calculus. It is assumed that all students have the knowledge of high school algebra. **Math 114 is a co-requisite of this course**.

Lecture Format: Lectures are given **ONLINE** in **asynchronous mode**.

Exams:

- There is one **midterm exam and the final**. **There are NO make-up exams! There is NO extra-credit in this course.**
- Students must install **Respondus Lockdown Browser & Monitor**, to use for taking exams. The instructions about how to do this are given here: **https://its.gmu.edu/knowledge-base/how-to-install-and-use-the-respondus-lockdown-browser/**
- So, you **MUST have a webcam** on your laptop or desktop.
- You **MUST have a working computer** to work in this course. Phone cannot be used – phone will not let you do the exams.
- The exams will be **timed**, you will have **one attempt**, but you will have larger time frame to start your exam at the convenient time for you, on the exam date you see in the schedule.

Honor Code:

Copying homework, use of online homework solutions or the instructor solution manual, giving or receiving assistance on exams, posting exam questions online and asking for solutions, or other improper conduct will be considered a violation of the Honor Code. Students who cheat in any way will be reported to the GMU Honor Committee.

Class Etiquette:

Our communication must be courteous, polite, respectful, and precise. Always sign your emails with your full Name. When asking about specific topic, or problem – be it from the homework, or from the book, be specific, instead of letting your instructor search to find the problem you are referring to.

University Resources

Learning Services https://learningservices.gmu.edu/
Student Support and Advocacy Center https://ssac.gmu.edu/
Counseling and Psychological Services https://caps.gmu.edu/

Important Dates

Look for **Session A: 5 week** here:
https://registrar.gmu.edu/calendars/summer-2020/