

# Physics 105, “Ideas in Astronomy”

## General Information

Instructor: Mark Henriksen  
Office: Online  
Location: Online  
Time: MWF 11:00-11:50 AM

email: henrikse@umbc.edu  
office hours: By appointment

## For Online Delivery

The lectures will be given synchronously via Webex at the scheduled class meeting times. You will need to have access to Webex. You will have received an email invitation to the meetings before the first day of classes. Students are expected to attend class. There will be a discussion component during the class meetings to enhance understanding of the lecture material.

## Course description

The purpose of this course is to provide undergraduate students with a general background in astronomy. This will include astronomical facts as well as basic mathematical and physics concepts used in astronomy.

## Grading procedures

Grades will be calculated using the following template: (1) two midterms – 25%, (2) homework – 10%, (3) final exam – 40%. Please note that exams will be based on lecture material and homework problems.

## Scope of this Course

The lecture material is based on the textbook. All chapters (1 – 14), excluding chapter 13, will be covered.

**Required Textbook:** “The Cosmic Perspective”, Bennett et al., 3rd Edition, Pearson

## **Schedule of Exams**

Midterm I: October 7

Midterm 2: November 11

Final Exam: December 11, 10:30 AM – 12:30 PM

## **Homework Assignments**

Homework will be due on the Monday following the completion of the lectures for that chapter. Homework consists of problems in Quick Quiz (QQ). Once in a while they can be tricky and it is best to look up each question's relevant material in the textbook to confirm your answers before handing in.

1. Chapter 1: QQ
2. Chapter 2: QQ
3. Chapter 3: QQ
4. Chapter 4: QQ
5. Chapter 5: QQ
6. Chapter 6: QQ
7. Chapter 7: QQ
8. Chapter 8: QQ
9. Chapter 9: QQ
10. Chapter 10: QQ
11. Chapter 11: QQ

12. Chapter 12: QQ

13. Chapter 14: QQ

### **Policy on late homework, missed Exams, and Exams**

*Late homework will not be accepted. Make up exams will not be possible. Any exam that is turned in late will have percentage points deducted. Up to 10 minutes late, 10% is deducted and up to 20 minutes late, 20% is deducted.*

### **Achieving Course Goals and Meeting Academic Expectations**

Successful students in this course attend lectures and take notes, are attentive, complete all homework assignments on time, and review for exams.

### **Policy on Academic Integrity**

“Academic integrity is an important value at UMBC. By enrolling in this course, each student assumes the responsibilities of an active participant in UMBC’s scholarly community in which everyone’s academic work and behavior are held to the highest standards of honesty. Cheating, fabrication, plagiarism, and helping others to commit these acts are all forms of academic dishonesty, and they are wrong. Academic misconduct could result in disciplinary action that may include, but is not limited to, suspension or dismissal.”

### **Student Support /Disability Services**

“UMBC is committed to eliminating discriminatory obstacles that may disadvantage students based on disability. Services for students with disabilities are provided for all students qualified under the Americans with Disabilities Act (ADA) of 1990, the ADAAA of 2009, and Section 504 of the Rehabilitation Act who request and are eligible for accommodations. The Office of Student Disability Services (SDS) is the UMBC department designated to coordinate accommodations that would allow for students to have equal access and inclusion in all courses, programs, and activities at the University.”