Introductory Astronomy and Cosmology

Phys 202–005 F2023

MW 11:30-12:50

Slides and reinforcing videos, are posted before class on canvas.njit.edu.

Instructor

Dr. George E. Georgiou TIER 423E georgiou@njit.edu (preferred contact method)

OFFICE HOURS: M 1:30-2:30, after class or by appointment (send email)

Textbook

Primary on which class is based:

"Astronony" by A.Fraknoi, D.Morrison, S.Wolf ...

Downloadable Open Stax text: https://openstax.org/details/books/astronomy

Optional paper textbook: (if do not like reading e-books)

Jeffrey Bennett, Megan Donahue, Nicholas Schneider, and Mark Voit. *The Cosmic Perspective Fundamentals*, 2nd Ed. Pearson Education, Inc., United States of America, 2015. – but ANY EDITION will work for reading material

Additional Reading (optional but may be interesting):

Neil deGrasse Tyson, J. Richard Gott and Michael A. Strauss, Welcome to the Universe, an Astrophysical Tour, Princeton University Press (2016)

Grade

Your final grade will be based upon class participation / attendance (10%), two in-class exams (25% each), and one Final Examination (40%). The number grade is .25*(exam 1+2) + .4*Final + .1*participation.

The exam schedule is as follows:

First Examination	(25%)	10/16 (Monday)(Thru week 5)	
Second Examination	(25%)	11/13 (Monday)(Thru week 9)	
Final Examination	(40%)	TBD 12/17-12/23(All-inclusive)	

There are no make-up examinations without a valid reason. The following table will determine your final letter grade.

85% to 100%	A
80% to 85%	B+
70% to 80%	В
60% to 69%	C+
50% to 59%	C
40% to 49%	D
0% to 39%	F

Introductory Astronomy and Cosmology (Phys 202) and Introductory Astronomy and Cosmology Laboratory (Phys 202A) are two separate courses. You can be registered for 202 now and take 202A later.

Academic Integrity

Any student who is disruptive in the classroom or cheats during an examination, will be in violation of the Academic Honor Code and will be reported to the Dean of Student Services.

Syllabus (Chapters for reading refer to OpenStax Download text)

Week 1 WM	9/6	0 / 1	·	
Week 2 WM	9/13			
Week 3 WM	9/20	Radiation and Spectra (Chapter Five) Astronomical Instruments (Chapter Six) Introduction to the Solar System (Chapter Seven)		
Week 4 WM	9/27	Earth and Other Cratered Venus and Mars (Chapter	, , , , , , , , , , , , , , , , , , ,	
Week 5 – WM	10/4	Giant Planets, Rings, Moo Comets, Asteroids, Sampl	, ,	
Week 6 W	10/11	The Sun (Chapters 15 and 16)		
Week 6 – M	10/16	EXAM 1 (uses Canvas, in-c	<mark>class)</mark>	
Week 7 – WM	10/18	Starlight and Stars (Chapt Distances. Gas & Dust in S	•	
Week 8 – WM	10/25	Star & Planet Formation (Stars' Adolescence to Old	•	
Week 9 WM	11/1	Death of Stars (Chapter 23)		
Week 10 W	11/8	Black Holes, Curved Space-Time (Chapter 24) The Milky Way Galaxy (Chapter 25)		
		Week 10 M 11/13	EXAM2 (uses Canvas)	
Wk11 WM	11/15	QSOs, Black holes, Galaxy	Evolution (Chs. 27 & 28)	
Wk 12 M	11/20	The Big Bang (Chapter 29))	
W	11/22	NO CLASS (F schedule)		
Wk 13 M		More Big Bank (Chapter	r 29)	
W	11/29			
Wk 14 – M	12/4	Review		
Last Day of Class Reading Days		W Dec 13,2023 R and F Dec. 14-15		
<i>C</i> ,				
FINAL EXAM		Dec 17-23	Cummulative,	

Fall 2023 Academic Calendar

Sept	4	Labor Day. University Closed		
Sept	5	First Day of Classes		
Sept	11	Last Day to Add/Drop a Class		
Sept	11	Last Day for 100% Refund, Full or Partial Withdrawal		
Sept	12	W Grades Posted for Course Withdrawals		
Sept	18	Last Day for 90% Refund, Full or Partial Withdrawal - No Refund for Partial Withdrawal after this date		
Oct	2	Last Day for 50% Refund, Full Withdrawal		
Oct	23	Last Day for 25% Refund, Full Withdrawal		
Nov	13	Last Day to Withdraw from Classes		
Nov	21	Thursday Classes Meet		
Nov	22	Friday Classes Meet		
Nov	23	Thanksgiving Recess Begins. No Classes		
Nov	26	Thanksgiving Recess Ends		
Dec	13	Last Day of Classes		
Dec	14	Reading Day 1		
Dec	15	Reading Day 2		
Dec	16	Saturday Classes Meet		
Dec	17	Final Exams Begin		
Dec	23	Final Exams End		
Dec	25	Final Grades Due		
		,		