Introductory Astronomy and Cosmology Phys 202–003 F2024 ECE115 WF 1-2:20

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: W 11:30-12:30, 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%)	10/11 Friday (Thru week 5)
Second Examination	(25%)	11/8 Friday (Weeks 6-9)
Final Examination	(40%)	TBD 12/16-12/20 (All-inclusive)

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

90% to 100%	Α
85% to 90%	B+
70% to 85%	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 –WF	9/4	9 ,	•	
Week 2 WF	9/11	, , , , , , , , , , , , , , , , , , , ,		
Week 3WF	9/18	Radiation and Spectra (Characteristics) Astronomical Instruments Introduction to the Solar S	(Chapter Six)	
Week 4 WF	9/25	Earth and Other Cratered Venus and Mars (Chapter	·	
Week 5 – WF	10/2	Giant Planets, Rings, Moons (Chapters 11 and 12) Comets, Asteroids, Samples (Chapters 13 and 14)		
Week 6 W	10/9	The Sun (Chapters 15 and 16)		
Week 6 – F	10/11	EXAM 1 (uses Canvas, in-c	lass, covers week 1-5)	
Week 7 – WF	10/16	Starlight and Stars (Chapte Distances. Gas & Dust in S		
Week 8 – WF	10/23	Star & Planet Formation (C Stars' Adolescence to Old	• •	
Week 9 WF	10/30			
Week 10 W	11/6	The Milky Way Galaxy (Che EXAM2 F 11/8 (uses Ca	apter 25)	
Wk11 WF	11/15	QSOs, Black holes, Galaxy	Evolution (Chs. 27 & 28)	
Wk 12 WF	11/22	The Big Bang (Chapter 29) More Big Bang (Chapter 2		
Wk 13 W Wk 14 - WF		??? – Friday Schedule Review		
Last Day of Class Reading Days		W Dec 11,2023 R and F Dec. 12-13		
FINAL EXAM		Dec 16-20	Cummulative,	

Fall 204 Academic Calendar

Sept	2	Monday Labor Day. University Closed		
Sept	3	Tuesday First Day of Classes		
Sept	9	Monday Last Day to Add/Drop a Class		
Sept	9	Monday Last Day for 100% Refund, Full or Partial Withdrawal		
Sept	10	Tuesday W Grades Posted for Course Withdrawals		
Sept	16	Monday Last Day for 90% Refund, Full or Partial Withdrawal - No Refund for Partial Withdrawal after this date		
Sept	30	Monday Last Day for 50% Refu nd, Full Withdrawal		
Oct	21	Monday Last Day for 25% Refund, Full Withdrawal		
Nov	11	Monday Last Day to Withdraw from Classes		
Nov	26	Tuesday Thursday Classes Meet		
Nov	27	Wednesday Friday Classes Meet		
Nov	28	Thursday Thanksgiving Recess Begins. No Classes		
Dec	1	Sunday Thanksgiving Recess Ends		
Dec	11	Wednesday Last Day of Classes		
Dec	12	Thursday Reading Day 1		
Dec	13	Friday Reading Day 2		
Dec	14	Saturday Classes Meet		
Dec	15	SundayFinal Exams Begin		
Dec	21	Saturday Final Exams End		
Dec	23	Monday Final Grades Due		