

Spring 2020

PHYS 202-004: Introductory Astronomy and Cosmology

George Georgiou

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**Introductory Astronomy and Cosmology, Section
Phys 202–004
Spring 2020,
MW 1-2:20 Kupfrian 104**

Instructor

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OFFICE HOURS: MW 11 -12:30 or after class or by appointment (send email)

Textbook

Primary on which class is based:
“Astronomy” by A.Fraknoi, D.Morrison, S.Wolf ...
Downloadable Open Stax text: <https://openstax.org/details/books/astronomy>

Paper textbook: (For those who do not like reading e-books; ANY EDITION will work)
Jeffrey Bennett, Megan Donahue, Nicholas Schneider, and Mark Voit. *The Cosmic Perspective Fundamentals*, Second Edition. Pearson Education, Inc., United States of America, 2015.

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 (10%), four examinations (15% each), and one Final Examination (30%). The examinations will be administered on the following dates.

First Examination	Monday, February 10, 2020	(15%)
Second Examination	Monday, March 2, 2020	(15%)
Third Examination	Monday, April 6, 2020	(15%)
Fourth Examination	Monday, April 27, 2020	(15%)
Final Examination	Finals Week (May 8-14)	(30%)

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

80% to 100%	A
75% to 79%	B+
70% to 74%	B
65% to 69%	C+
50% to 64%	C
40% to 49%	D
0% to 39%	F

The examination grades will not be curved. In-class exams (closed book) will cover material including the week before. The Final Examination will cover the entire course’s material.

Introductory Astronomy and Cosmology (Phys 202) and Introductory Astronomy and Cosmology Laboratory (Phys 202A) are two separate courses. You can be registered for either one of these courses without being registered for the other course.

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)

W, M	22, 27 - Jan	Observing the Sky (Chapters 1 & 2) Orbits and Gravity (Chapter 3)
W, M	29-Jan+3-Feb	Earth, Moon, and Sky (Chapter 4) Radiation and Spectra (Chapter 5)
W	5 - Feb	Astronomical Instruments (Chapter 6)
M	10 - Feb	First Examination (Ch 1-5)
W, M	12, 17 - Feb	Introduction to the Solar System (Chapter 7) Earth and Other Cratered Worlds (Chapters 8 & 9)
W, M	19, 24-Feb	Venus and Mars (Chapter 10) Giant Planets, Rings, Moons (Chapters 11 & 12)
W	26 - Feb	Comets, Asteroids, Samples (Chapters 13 & 14)
M	2 - March	Second Examination (Ch. 6-12)
W, M	4, 9 - March	The Sun (Chapters 15 and 16) Starlight and Stars (Chapters 17 and 18)
W, M	11,23 -March	Distances. Gas & Dust in Space (Chapters 19 & 20) Star & Planet Formation (Chapter 21)
W, M	16, 18-March	Spring Recess – NO CLASS
W, M	25, 30-March	Stars' Adolescence to Old Age (Chapter 22) Death of Stars (Chapter 23)
W	1-April	Review of Chapters 15-23
M	6-April	Third Examination (Ch. 13-21)
W, M	8, 13 – April	Black Holes, Curved Spacetime (Chapter 24) The Milky Way Galaxy (Chapter 25)
W, M	15, 20 - April	Galaxies (Chapter Twenty-six) QSOs, Black holes, Galaxy Evolution (Chs. 27 & 28)
W	22 - April	The Big Bang (Chapter Twenty-nine)
M	27 - April	Fourth Examination (Ch 22-28)
W, M	29Apr+4May	Review Chapters 1-29
W,R	6,7 May	Reading Days

Final (Cumulative)
date to be announced (week May 8-14)

Spring 2020 Academic Calendar

January	20	Monday	Martin Luther King, Jr. Day
January	21	Tuesday	First Day of Classes
January	31	Friday	Last Day for 100% Refund, Full or Partial Withdrawal
February	3	Monday	Last Day for 90% Refund, Full or Partial Withdrawal – No Refund for Partial Withdrawal after this date.
February	17	Monday	Last Day for 50% Refund, Full Withdrawal
March	9	Monday	Last Day for 25% Refund, Full Withdrawal
March	15-22	Sun.-Sun.	Spring Recess - No Classes Scheduled - University Open
April	6	Monday	Last Day to Withdraw
April	10	Friday	Good Friday - No Classes Scheduled - University Closed
May	5	Tuesday	Friday Classes Meet, Last Day of Classes
May	6-7	Wed-Thurs	Reading Days
May	8-14	Fri-Thurs	Final Exams
May	16	Saturday	Final Grades Due