

ASTRONOMY 07
GENERAL SCHEDULE OF ACTIVITIES

WEEK	DATE	LECTURE TOPICS AND ACTIVITIES / LECTURE	READING¹	HOMEWORK²	OPINION PIECE
1	21-Aug 23-Aug	Enrollment & objectives; introduction to Astrobiology / Lecture 01a Babylonians to Einstein; the nature of Science / Lecture 01b	--- Ch1,2	--- ---	---
2	28-Aug 30-Aug	Scale of the Universe / Lecture 02a Matter, light, and the nebular model / Lecture 02b	Ch3.1-3.2 Ch3.3-3.5	HW01 ---	---
3	4-Sep 6-Sep	Tools for understanding the Earth / Lecture 03 Earth, from core to atmosphere; the Moon / Lecture 03	Ch4.1-4.3 Ch4.4-4.6	HW02 HW03	---
4	11-Sep 13-Sep	Organisms and evolution / Lecture 04a Metabolism and heredity / Lecture 04b	Ch5.1-5.2 Ch5.3-5.6	Mini-quiz HW04	---
5	18-Sep 20-Sep	Origins of life; RNA world; t=0 to Cambrian / Lecture 05a Extinction events; human evolution; playing God / Lecture 05b	Ch6.1-6.3 Ch6.4-6.6	HW05 ---	---
6	25-Sep 27-Sep	EXAM #1 (Ch1-6) Requirements of life; life in the solar system / Lecture 06	Ch1-6 Ch7.1-7.4	--- ---	---
7	2-Oct 4-Oct	Introducing Mars / Lecture 07a Prospects of life on Mars / Lecture 07b	Ch8.1-8.3 Ch8.4-8.5	HW06 ---	---
8	9-Oct 11-Oct	The Galilean satellites / Lecture 08a Other enticing outer Moons / Lecture 08b	Ch9.1-9.2 Ch9.3-9.4	HW07 ---	---
9	16-Oct 18-Oct	Habitable zones, Venus & Earth / Lecture 09a Continuously habitable zones, global climate change / Lecture 09b	Ch10.1-10.3 Ch10.4-10.5	HW08 HW09	--- ---
10	23-Oct 25-Oct	Lights in the night / Lecture 10 EXAM #2 (Ch7-10)	--- Ch7-10	--- ---	--- ---
11	30-Oct 1-Nov	Other stars / Lecture 11 Reality Walk #1	Ch11.1, 11.5 ---	--- ---	OP1 ---
12	6-Nov 8-Nov	Extrasolar planets / Lecture 12 The rare Earth hypothesis / Lecture 12	Ch11.2-11.3 Ch11.4	HW10 HW11	OP2 OP3
13	13-Nov 15-Nov	The Drake equation; SETI & CETI / Lecture 13a Extrasolar civilizations; UFOs and previous contact / Lecture 13b	Ch12.1-12.3 Ch12.4	HW12 HW13	OP4 OP5
14	20-Nov 22-Nov	Reality Walk #2 Holiday	--- ---	--- ---	--- ---
15	27-Nov 29-Nov	Interstellar exploration by humans / Lecture 15a The Fermi paradox / Lecture 15b; all extra credits due	Ch13.1-13.2 Ch13.3-13.4, epilogue	HW14 ---	OP6 ---
16	4-Dec 6-Dec	EXAM #3 (Ch11-13) FINAL EXAM (Class activities and homework sets)	Ch11-13 Ch1-13	--- ---	--- ---

¹All reading assignments should be completed by the beginning of this class session.

²Dates homework is assigned; homework is due at the beginning of the next class session.