Astronomy 183 — Course outline (may be subject to change)

Welcome, introduction to astrobiology and science
Lectures 1, 2
The definition of life and the origin of life
Lectures 3, 4
Chemistry and life
Lectures 5, 6
Assignment out: Homework #1 (January 26)
Biology and life
Lectures 7, 8
Assignment in: Homework #1 (February 4)
Physics and life
Lectures 9, 10, 11
Assignment out: Homework #2 (February 9)
Astronomy and life
Lectures 12, 13, 14
Assignment in: Homework #2 (February 18) Assignment out: Homework #3 (February 23) Assignment out: Final paper assignment (February 23)
Geology, Earth evolution, and life
Lectures 15, 16
Assignment in: Homework #3 (March 4)

Midterm exam Comparative planetology Reading: Sections 4.3, 4.5, 8.3; Chapter 10, and especially Section 10.5 Case studies Lecture 18: Mars March 25 Reading: Sections 7.2, 7.3; Chapters 8 and 9 **Assignment in:** Term paper proposal (March 25) Assignment out: Homework #4 (March 30) Life on Earth Reading: Sections 5.1, 5.2, 5.4, 6.1, 6.3, 6.4, 6.5 Assignment in: Homework #4 (April 8) Assignment out: Homework #5 (April 13) Life elsewhere Lecture 26: Drake equation, SETIApril 22 Reading: Section 8.4; Chapter 11 and 12 Assignment in: Homework #5 (April 22) Putting it all together Reading: Section 7.4; Chapter 13

Final exam

Assignment in: Term paper (April 29)