**Course: “Biology of Aging”**

**Big Question: Why Do We Age?**

**I. NATURAL HISTORY AND DEMOGRAPHY OF AGING**

Week 1: What is aging?

Week 2: How do we measure aging?

Week 3: What are the patterns of aging across species in wild populations?

Week 4: How can aging be measured in an individual?

 [Quiz #1]

**II. WHY THEORIES OF AGING**

Week 5: How has natural selection shaped the patterns of aging?

Week 6: How do we design experiments to test the evolutionary theories?

Week 7: Does aging vary across environments? Why?

Week 8: Why do whales and humans have menopause?

 [Quiz #2]

**III. HOW THEORIES OF AGING**

Week 9: What is the relationship between cell aging and cancer?

Week 10: How do you explain the statement: ”Every breath you take hastens your death”?

Week 11: Eat less and live longer?

Week 12: A little stress is good for you.

Week 13: Homology in aging pathways, from nematodes to mice to humans.

 [Quiz #3]

Week 14: How much does genetics matter?

[Final Exam]