

**EVOLUTION**  
**Biology-351**  
**Syllabus**  
**Spring 2011**  
**G. H. Adler**

<b>Week</b>	<b>Topics</b>
30 Jan-3 Feb	Syllabus, grading, course overview
6-10 Feb	Introduction; Adaptive evolution <i>Read Chapters 1 &amp; 2 (pp. 7-53)</i>
13-17 Feb	Neutral evolution <i>Read Chapter 3 (pp. 54-69)</i>
20-24 Feb	The genetic impact of selection on populations <i>Read Chapter 4 (pp. 70-98)</i>
27 Feb-2 Mar	The origin and maintenance of genetic variation <i>Read Chapter 5 (pp. 99-123)</i>
5-9 Mar	The expression of variation <i>Read Chapter 7 (pp. 152-173)</i>
12-16 Mar	Genomic conflict <i>Read Chapter 9 (pp. 197-213)</i>
19-23 Mar	<b>Spring Break</b>
26-30 Mar	Speciation <i>Read Chapter 12 (pp. 277-302)</i>
2-6 Apr	Phylogeny and systematics <i>Read Chapter 13 (pp. 303-330)</i>
9-13 Apr	Key events in evolution <i>Read Chapter 15 (pp. 355-374)</i>
16-20 Apr	Major events in the geological theater; The fossil record and life's history <i>Read Chapter 16 &amp; 17 (pp. 375-438)</i>
23-27 Apr	Human evolution and evolutionary medicine <i>Read Chapter 19 (pp. 480-495)</i>

30 Apr-4 May            Presentations; Papers due Wednesday 2 May  
7-11 May                Presentations; Conclusion and prospect  
                              *Read Chapter 20 (pp. 496-505)*

---

## GRADING

*Basis of grade:*

300 total points

Class participation in discussions, 100 points.

1 written report, 100 points. **10 points will be deducted for every day the report is late.**

1 in-class presentation, 100 points.

*Grading scale:*

90-100            A

80-89.9          B

70-79.9          C

60-69.9          D

<60                F

Grades of + and – also may be given.

## TEXT

Stearns, S. C., and R. F. Hoekstra. 2009. *Evolution: an introduction*. 3<sup>rd</sup> edition. Oxford University Press, London, UK. **REQUIRED.**

**OFFICE HOURS** (room HS-37, phone 424-3068, email [adler@uwosh.edu](mailto:adler@uwosh.edu))  
Monday, Tuesday, Thursday 10-11.