

## SYLLABUS – Marshall University

Course Title/Number: **PRINCIPLES OF ORGANIC EVOLUTION BSC 413/513**  
Semester/Year: **Fall 2015**

TEXT: **D. Futuyma. 2011. Evolution. 3<sup>d</sup> Ed.**

Days/Time: **Monday & Wednesday 1:00-2:15 pm**

Location: **Science Building 276**

INSTRUCTOR: Dr. **Victor FET** Office: **Science Building 206**, phone: (304) 696-3116;  
email: [fet@marshall.edu](mailto:fet@marshall.edu) Office Hours: Mon, Wed 2:30-4:30, Thurs 2-4.

*University Policies:* By enrolling in this course, you agree to the *University Policies* listed below. Please read the full text of each policy by going to [www.marshall.edu/academic-affairs](http://www.marshall.edu/academic-affairs) and clicking on "Marshall University Policies." Or, you can access the policies directly by going to [http://www.marshall.edu/academic-affairs/?page\\_id=802](http://www.marshall.edu/academic-affairs/?page_id=802). *Academic Dishonesty/ Excused Absence Policy for Undergraduates/ Computing Services Acceptable Use/ Inclement Weather/ Dead Week/ Students with Disabilities/ Academic Forgiveness/ Academic Probation and Suspension/ Academic Rights and Responsibilities of Students/ Affirmative Action/ Sexual Harassment.*

**Course Description:** Facts and possible mechanisms underlying the unity and diversity of life with emphasis on neo-Darwinian concepts of the role of species in evolutionary phenomena. 3 credit hours.

**Pre-requisite(s):** BSC 302 or BSC 320 or BSC 322 or BSC 324

<b>Course Student Learning Outcomes</b>	<b>How students will practice each outcome in this Course</b>	<b>How student achievement of each outcome will be assessed in this Course</b>
Students will be able to describe and explain basic fundamental mechanisms of biological evolution as known to modern science.	In-lecture discussion, homework reading assignments	Graded assessments: in-class quizzes, exam questions, genetic problem solving, graded lab exercises

**Assessment & Grading:** 4 tests (including final) @ 100 pts= 400 pts; 15 quizzes @ 10 pts=150 pts; 5 homework assignments @ 30 pts=150 pts; term paper = 100 pts; total 800 pts (undergraduates).

GRADUATE students will write an additional paper (50 points).

SCALE (%) 90-100, A; 81-89, B; 71-80, C; 60-70, D; below 60, F.

If you miss a quiz or a test you can make it up only if you have university excuse.

**NO EXTRA CREDIT WILL BE GIVEN. Plagiarism Policy/Academic Honesty:** plagiarism or cheating will not be tolerated, and will result in immediate dismissal (F grade). **Attendance** is not mandatory, but you are **absolutely and solely responsible** for any material covered or announcements made in class. Please feel free to discuss with me any problems you might be having (**email preferred**).

<b>Lecture Schedule (Science Room 374)</b>		
Aug 24, 26	Introduction & Short History	Ch 1
Aug 31, Sept 2	Systematics & Phylogeny	Ch 2
<b>Monday Sept 7 Labor Day</b>		
Sept 9, 14	Patterns of Evolution	Ch 3

Sept 16, 21	Fossil Record	Ch 4
<b>Wednesday Sept 23 Test 1</b>		
Sept 28, 30	History of Life 1	Ch 5
Oct 5, 7, 12	History of Life 2	Ch 5
Oct 14, 19	Geography of Evolution	Ch 6
<b>Wednesday Oct 21 Test 2</b>		
Oct 26, 28	Mutations	Ch 8 (part)
<b>Friday Oct 30 – last day to withdraw.</b>		
Nov 2, 4, 9	Population Genetics	Ch 9-10 (part)
Nov 11, 16	Natural Selection	Ch 11-12 (part)
<b>Wednesday Nov 18 Test 3</b>		
<b>Thanksgiving Break</b>		
Dec 1, 3	Species & Speciation	Ch 17-18 (part)
<b>Final Test (comprehensive!): Friday, December 11, 12:45-2:45 pm</b>		

