2010 Curriculum Biology BS Degree Checklist (updated 3/20/17)

Please print your name: _____

Email address: _____

Please attach the following:

1. An unofficial transcript following registration for your last semester.
2. Copies of transcripts from other schools for science transfer credits.
3. For graduation, please bring this completed checklist & BS petition form to the Bio Department Office

I. Introductory and Core Courses = 16 credits

Introductory Course	Semester & Year Completed	Grade
Bio 121	Fall	
Core Courses		
Bio 326	Spring	
Bio 327	Fall	
Bio 345	Fall	
Bio 305	Spring	

II. Upper Division Requirement = 22 credits

Students should select additional upper-division courses (numbered 300 or above) to complete at least 22 credits. These credits should include six credits of laboratory courses and a communications skills course. Some lab courses also fulfill the communications skills requirement. Finally, the 22 credits of upper division coursework must satisfy a distribution requirement such that a minimum of 3 credit hours is taken from each area (Cell & Molecular Biology-CM **and** Ecology & Evolutionary Biology-EE) of the upper division biology course lists (see reverse). Courses may satisfy more than one requirement, but credits count only once.

Laboratory Requirements	Semester & Year Completed	Grade	# Credits*
3 credit Lab: Bio			
3 credit Lab: Bio			
Elective Courses			
a) Communication skills Bio			
b) Distribution requirement (CM) Bio (EE) Bio			
c) Other elective courses Bio			
Bio			
Bio			
Bio			
Bio			

Sum of Credits:

III. GPA Requirement

A 2.0 GPA requirement is required for all upper-division (300 level and higher) courses in the major.

IV. Chemistry and Math Requirements = 19-21 Credits

Courses	Semester & Year Completed	Grade
Chem 106/107	/	/
Chem 116/117	/	/
Chem 275/276	/	/
Either Math 285/286	/	/
Or Math 295/296	/	/
Or Math 295/APM 391 (ESF)	/	/

Upper Division Biology Courses – Distribution Requirement for the B.S. degree

At least 3 of the 22 Upper Division Credits must be from each list). L- denotes a laboratory course (# of credits counted as lab in parentheses). Underlined courses fulfill the Communication Skills Requirement

Cell and Molecular Biology

300 – Dance, Exercise and Brain Function
300 – Research Methods for Life Scientists
316/317 L (3) - Anatomy and Phys. I&II*
355 - General Physiology
396/REL 359 – Stem Cells & Society
400 – Brain and Behavioral Plasticity
400 - Experimental Designs & Interpretations in Biol
400 – Food for Thought: Brain Bioenergetics
400 - Neurochemistry of Memory
400 – Nervous System Insult
400 – Seminar in Neurodegenerative Disease
400 – Principles of Toxicology
400 – Quantitative Methods for Life Scientists
400 – Rhythms of the Brain
400 – Sem: Epigenetics of Human Health & Disease
400 – Seminar in Cell Biology & the Cytoskeleton
407 – Advanced Neuroscience
409 L (1) – General Microbiology**
414 – Biology of Adaptive Behaviors (Bio 400)
416 – Biology of Aging (Bio 400)
421 – Capstone Seminar in Biotechnology
422 L – (3) Bioinformatics for Life Scientists
425 L – (3) Cell and Developmental Biol. Lab
435 L – (3) Genetics lab
437 – Seminar in Develop. Neuro. (Bio 400)
441 – Seminar in Infectious Diseases (Bio 300)
442– Seminar in Model Organism Genetics (Bio 400)
443 – Seminar in Epigenetics (Bio 400)
444 – Seminar in Neurotoxicology (Bio 400)
447 – Basic Immunology
457 – Principles of Human Toxicology (Bio 400)
459 – Plants & People (Bio 300)
462 – Molecular Genetics
463 L – (3) Molecular Biotechnology*
464 L – (3) Applied Biotechnology*
465 L – (3) Molecular Biology Lab
469 – Countering Weapons Mass of Destruction
472 L – (3) Advanced Light Microscopy (Bio 400)
475 L – (4) Biochemistry lab
476 – Cold Cases
496 – Neuroscience and Society (Bio 400)
501 – Biology of Cancer
503 – Developmental Biology
565 – Cell Physiology
BCM 475 – Biochem I
BCM 476 – Biochem II
BIO 575/576- Biochem I & II (previous numbers)

Ecology and Evolutionary Biology

310 – Evolution, Religion and Society
312/313 – Marine Ecology of Spain
400 – Biology of Marine Mammals
400 – Biomimicry
400 – Comparing Sperm and Pollen Evolution
400 - Evolutionary Genetics of Complex Traits
400 – Global Change Biology
400 L – (3) Global Change Ecology Laboratory
400 – Isotopic Approaches in Global Change Eco
400 – Quantitative Methods for Life Scientists
400 – Seminar in Molecular Ecology
400 – Seminar in Disturbance Ecology
400 – Seminar in Ecosystem Science
400 – Sexual Selection
400 – Sexual Selection and Mating Strategies
400 – Species Interactions and Biodiversity
400 – Topics in Evolution
405 L – (4) Introduction to Field Biology (lab)
411 – Evolutionary Mechanisms (Bio 400)
415 – Conservation Biology
417 L- (3) Animal Behavior & Evolutionary Bio Lab
428 – Capstone Seminar - Environmental Science
439 – Seminar in Ecosystem Ecology (Bio 400)
448 – Evolutionary Medicine
450 – Seminar in Evolutionary Genetics (Bio 400)
451 – Ecology
453 L – (2) Ecology lab***
456 – Seminar in Human Disease Genomics (Bio 400)
458 – Seminar in Animal Communication (Bio 400)

*The combinations of Bio 316/317 or Bio 463/464 alone cannot be used to fulfill the 6-credit lab requirement for the BS degree. Students may take these labs, but must complete one additional 2-4 credit lab course to satisfy the laboratory requirement.
** Because Bio 409 is a 1-credit lab experience, it cannot be used to satisfy the lab requirement for the BS degree in Biology.
***By petition this course can count as one of the two labs needed for the laboratory requirement for the BS degree.
****Bio 419 (Jr/Sr Thesis Seminar) plus Bio 495 (Distinction Thesis) or Bio 499 (Honors Thesis) can fulfill the comm skills req.

When using this as your final degree checklist for graduation, please attach the following:

1. An unofficial transcript following registration for your last semester.
2. Copies of transcripts from other schools for science transfer credits.
3. The BS petition itself, signed by your academic advisor.
4. For graduation, please return this completed checklist along with the unofficial transcript(s) & BS petition form to Deborah in the Biology Undergraduate Office, Room 114, Life Sciences Complex