## BIOLOGY MAJORS WORKSHEET 2009-2010

		2009-2	010		
BIOL 115N	Biology Core Courses:           General Biology I         4           General Biology II         4	- - -			
BIOL 115N-116N must be passed with a C (2.0) or better to continue. Upon completion of Biology 116N, students must complete the following core of biology courses, some of which are pre-requisites or co-requisites for upper level biology courses (see catalog descriptions for individual courses). Biology 293 (Cell Biology) and 303 (Genetics) have Math 162 (Pre-calculus) and Chemistry 211 (Organic Chemistry) as pre- or co-requisites; STAT 130M (Elementary Statistics) is a pre-requisite for Biology 303. Biology 290 should be taken within two semesters of completing Biology 116N and Biology 405W should be taken during the junior or senior year. All core courses must be passed with a C (2.0) or better.					
Evolution (292) 3 Ecology (291) 3 Ecology (293) 3 Cell Biology (293) 3 Genetics (303) 3 Senior Seminar (405W) 2 Prerequisites for 405W; you must finish the required core courses listed above AND one Biology elective listed below (300-400 level)					
Required Biology Elective Courses:  Students must choose 16 elective hours from 300- and 400-level Biology course offerings. A minimum of three of the courses must have a laboratory/field component. A maximum of 4 credits of 200-level coursework may be counted toward the 16-hour total (e.g., students completing BIOL 250/251 will receive 4 elective credits and 1 lab credit). A maximum of 6 credits of unstructured coursework (internships, practica, undergraduate research, and independent study – see catalog for details) may be counted toward the 16-hour total. Students must pass all Biology electives with a C (2.0) or better (P = Passing for courses graded Pass/Fail).  Asterisks (*) indicate laboratory courses.					
A student who seeks a bachelor's degree from Old Dominion University must, in addition to meeting other requirements of the University, earn a <b>minimum of 25</b> % of the total number of credits required for the degree (for example, 30 credits in a 120-credit degree program) through on- or off-campus instruction. This must include a minimum of <b>12 hours</b> of upper-level courses in the department of the declared major. The responsibility for meeting the requirements for a degree rests with the student.					
Cellular/Molecular Biology					
BIOL 315* BIOL 407* BIOL 409 BIOL 410* BIOL 416	General Microbiology Molecular Immunological Tech. Immunology Immunology Laboratory Clinical Immunology	5 6 3 2 2	BIOL 423 BIOL 426* BIOL 430 BIOL 457 BIOL 459 BIOL 460	Cellular and Molecular Biology Histology Microbial Physiology General Virology Geonomics Frontiers Nanoscience & Nanotechnology	3 5 3 3
Organismal Biology (Human Emphasis)					
BIOL 250 * BIOL 251* BIOL 314* BIOL 427	Human Anatomy & Physiology Human Anatomy & Physiology Developmental Biology Neurobiology	4 4 5 3	BIOL 461* BIOL 480* BIOL 490*	Human Cadaver Dissection Advanced Human Physiology Lab Advanced Human Physiology	4 4
Organismal Biology (Non-Human Emphasis)					
BIOL 221* BIOL 307* BIOL 308* BIOL 322 BIOL 320 BIOL 400* BIOL 410* BIOL 414 BIOL 414 BIOL 419 BIOL 420* BIOL 422* BIOL 422* BIOL 424* BIOL 4248	Field Botany Invertebrate Zoology General Botany Ethnobotany Vertebrate Zoology Flowering Plant Families Entomology Plant Physiology Plants of the Bible and The Koran Wetland Plants Ichthyology Ornithology Field Studies in Ornithology Comparative Animal Physiology Physiological Ecology of Animals	4	BIOL 431* BIOL 438* BIOL 441 BIOL 446 BIOL 454* BIOL 473* BIOL 473* BIOL 430 BIOL 437 BIOL 437	Mammalogy Dendrology Animal Behavior Comparative Biomechanics Parasitology Comparative Anatomy of the Chordates Herpetology Mushrooms Microbial Pathogenesis Cave Biology Origins of Biological Principles	5

Revised 06/25/2009