## Biological Sciences BS Degree Course Check List Before Fall, 2011

### Core Courses for ALL Students

- **BIO 1 (5 units):** Biodiversity, Evolution, Ecology
- **BIO 2 (5 units):** Cells, Molecules, Genes
- **Chem 1A (5):** General Chem I (IAD Score ≥ 27 and passing score on Chem Diagnostic Test or passing Chem 4 with "C" or better)
- **Chem 1B (5):** Gen Chem II (Chem 1A)
- **Chem 20 (3):** Organic Chem (Chem 1B) or for Pre-health
- **Chem 161 (3):** Gen Biochem (Chem 10 or 20 or [1 and 2]; Chem 6B, 20, or 24)
- **BIO 160 (3):** General Ecol (Bio 10 or [1 and 2]; Stat 1)
- **BIO 184 (4):** General Genetics (Bio 1 and 2)
- **BIO 139 (4):** General Micro (Bio 10 or 20 or [1 and 2]; Chem 6B, 20, or 24)
- **Phys 1A (4):** Mechanics, Heat, Sound
- **Phys 2B (4):** Lt. Elect, Magnet, Mod Phys (Phys 5A)
- **Math 26A (3):** Calculus for Life Sci (IAD Score ≥ 27)
- **Stat 1 (3):** Intro Statistics (IAD Score > 27)
- **BIO 160 (3):** General Ecol (Bio 10 or [1 and 2]; Stat 1)
- **Bio 121 (3):** Molecular Cell Bio (Bio 1 and 2)

### Elective Courses for Specific Concentrations [Chem 161 not counted as UD Bio elective; Chem 160B and 162 counted.]

#### BS General (no concentration)
- 1 UD Plant
- 1 UD Animal
- UD Elective
- UD Elective
- UD Elective
- UD Elective
- UD Elective
- UD Elective

#### BS Molecular Biology
- Chem 31 (4): Quant (Chem 1B)
- Chem 162 (3): Bioch Lab (Chem 161 and 31)
- Bio 143 (3): Virology (Bio 139)
- Bio 149A (3): Immuno (Bio 139, 184, 121)
- Bio 180 (4): Adv Molec Bio (Bio 121 and 184)
- 9 more units UD Electives selected with advisor

#### BS Microbiology
- Chem 20L: Org Lab (Chem 20)
- Chem 31 (4): Quant (Chem 1B)
- Chem 162 (3): Bioch Lab (Chem 161 & 31)
- Bio 149A (3): Immuno (Bio 139, 184, 121)
- Bio 149B (1): Immun/Ser Lab (Bio 149A)
- 15 more units UD Electives selected with advisor

#### BS Forensics
- Chem 31 (4): Quant (Chem 1B)
- Chem 162 (3): Bioch Lab (Chem 161 & 31)
- Crj 4 (3)
- Crj 146 (3) (Crj 4, 110)
- Crj 175 (3) (proof of Forensics concentration)
- Bio 150 (3) Forensic Bio (Bio 1, 2, and 184)
- Bio 151 (3) Advanced For Bio (Bio 150 or instructor's permission)
- Bio 152 (3) Human Parasitology (Bio 1 and 2)
- Bio 180 (4) Advanced Molec Bio (Bio 121 and 184)
- 7 more units UD Electives selected with advisor

#### BS Clinical Lab Science
- Chem 31 (4): Quant (Chem 1B)
- Chem 162 (3): Bioch Lab (Chem 161 & 31)
- Bio 124 (3) Clinical Hematol (Bio 10 or 20 or [1 and 2]; Chem 161)
- Bio 144 (4) Pathogenic Bact (Bio 139)
- Bio 149A (3): Immuno and Serol Lect (Bio 139, 121, 184)
- Bio 149B (1): Immun/Ser Lab (149A)
- Bio 152 (3) Human Parasitology (Bio 1 and 2)
- 9 more units UD Electives selected with advisor

#### BS Clinical Lab Science
- Bio 117 (3) Nat Res Conserv (Bio 10 or [1 and 2]; Chem 6B, 20 or 24)
- Bio 167 (3) Quant. Methods in Bio (Stat 1)
- Bio 173 (3) Fisheries Biol (Bio 160; Stat 1)
- Bio 179 (3) Princ. Wildlife Mgt (Bio 160, 166, 168, or permission)
- 7 more units UD electives selected with advisor