

**ARKANSAS STATE UNIVERSITY  
COLLEGE OF SCIENCES AND MATHEMATICS**

**NAME:** \_\_\_\_\_

**Student ID #:** \_\_\_\_\_

**COMMITTEE CHAIR:** \_\_\_\_\_

**DEGREE & MAJOR: M.S.: BIOLOGICAL SCIENCES**

**Checksheet updated November 2017**

**ADMISSION REQUIREMENTS:**

- \_\_\_\_\_ 1) A minimum of 18 undergraduate hours in biological sciences and undergraduate grade point of 2.75 or greater (on 4.0 scale)
- \_\_\_\_\_ 2) A minimum GRE combined verbal and quantitative score of 300.
- \_\_\_\_\_ 3) Three letters of reference.
- \_\_\_\_\_ 4) A statement of educational objectives and career goals.

**MAJOR REQUIREMENTS - 33 HOURS, which includes 6 thesis hours**

A minimum of 8 credit hours at the 6000 level, in addition to the REQUIRED COURSES.

No more than 6 credit hours of Independent Study can be applied toward the degree (of which up to 3 hours can count toward 8-credit hours at 6000-  
NOTE: Semesters listed when courses are offered are subject to change.

**REQUIRED COURSES**

|   |     |       |
|---|-----|-------|
| BIO 6003 Scientific Methods Rsch Design | F   | _____ |
| BIO 6001 Biological Seminar             | All | _____ |
| BIO 638V 1-6 Thesis hours (6 hrs total) | All | _____ |

**Choose at least one of the following**

|                                    |         |       |
|------------------------------------|---------|-------|
| BIO 504V SP T Biometry             | Sp even | _____ |
| OR                                 |         |       |
| BIO 5684 Biological Data Analyses  | Sp      | _____ |
| OR                                 |         |       |
| BIO 6601 Envr. Sys. Analysis Lab & | Sp odd  | _____ |
| BIO 6603 Envr. Systems Analysis    | Sp odd  | _____ |

**Choose at least 8-credit hours of the following**

|   |         |       |
|---|---------|-------|
| BIO 6013 Evolutionary Biology               | F even  | _____ |
| BIO 6113 Advanced Cell Biology              |         | _____ |
| BIO 6123 Specialized Biochemistry           | Sp odd  | _____ |
| BIO 6301 Aquatic Biology &                  |         | _____ |
| BIO 6302 Aquatic Biology Lab                |         | _____ |
| BIO 6311 Med./Vet. Entomology Lab &         | Sp even | _____ |
| BIO 6313 Med./Vet. Entomology               | Sp even | _____ |
| BIO 6321 Insect Taxonomy Lab &              | F even  | _____ |
| BIO 6322 Insect Taxonomy                    | F even  | _____ |
| BIO 6331 Comparative Ethology Lab &         | Su odd  | _____ |
| BIO 6332 Comparative Ethology               | Su odd  | _____ |
| BIO 6342 Natural Hist of Vertebrates &      | Sp odd  | _____ |
| BIO 6352 Natural Hist of Vertebrates Lab    | Sp odd  | _____ |
| BIO 6351 Comparative Physiology Lab &       | Su even | _____ |
| BIO 6353 Comparative Physiology             | Su even | _____ |
| BIO 6503 Mechanisms of Speciation           | F odd   | _____ |
| BIO 6513 Global Change Biology              | F even  | _____ |
| BIO 6621 Case Studies in Ecostym Mgmt Lab & | F odd   | _____ |
| BIO 6623 Case Studies in Ecostym Mgmt       | F odd   | _____ |
| BIO 6633 Population Community Ecology       |         | _____ |
| BIO 6653 Aquatic Ecotoxicology              | Sp odd  | _____ |
| BIO XXXX Environmentor Mentoring            |         | _____ |
| BIO 680V Independent Study (up to 3 hours)  | All     | _____ |

**Courses Not Listed (e.g., ESCI, MBS, POSC, GEOG, STAT):**

|       |       |
|-------|-------|
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

**5000-level courses**

|  |            | grade |
|--|------------|-------|
| BIO 5001 Lab Tech in Elec. Microscopy &      | F even     | _____ |
| BIO 5003 Lab Tech in Elec. Microscopy L      | F even     | _____ |
| BIO 5013 Population Genetics                 | Sp even    | _____ |
| BIO 5033 Bioinformatics and Applications     |            | _____ |
| BIO 5063 Biosafety and Ethics in Research    | F even     | _____ |
| BIO 5103 Virology                            | F even     | _____ |
| BIO 5104 Microbiology                        | FS Su even | _____ |
| BIO 5113 Immunology                          | F          | _____ |
| BIO 5123 Cell Signaling                      | Sp odd     | _____ |
| BIO 5131 Cell Biology Lab &                  | Sp         | _____ |
| BIO 5133 Cell Biology                        | Sp         | _____ |
| BIO 5143 Pharmacology                        | Sp         | _____ |
| BIO 5201 Issues in Human Ecology Lab &       | Sp odd     | _____ |
| BIO 5202 Issues in Human Ecology             | Sp odd     | _____ |
| BIO 5213 Human Genetics                      | F odd      | _____ |
| BIO 5301 Aquatic Entomology &                | Sp odd     | _____ |
| BIO 5302 Aquatic Entomology Lab              | Sp odd     | _____ |
| BIO 5303 Forensic Entomology                 |            | _____ |
| BIO 5311 Fishery Biology &                   | Su even    | _____ |
| BIO 5312 Fishery Biology Lab                 | Su even    | _____ |
| BIO 5322 Marine Mammals Lab &                | Sp odd     | _____ |
| BIO 5323 Biology of Marine Mammals           | Sp odd     | _____ |
| BIO 5332 Animal Histology                    |            | _____ |
| BIO 5342 Animal Histology Lab                |            | _____ |
| BIO 5333 Marine Biology                      |            | _____ |
| BIO 5341 Animal Embryology Lab               |            | _____ |
| BIO 5343 Animal Embryology                   |            | _____ |
| BIO 5351 Mammalogy Lab &                     | F even     | _____ |
| BIO 5352 Mammalogy                           | F even     | _____ |
| BIO 5361 Mammalian Neurobiology Lab &        | F even     | _____ |
| BIO 5363 Mammalian Neurobiology              | F even     | _____ |
| BIO 5362 Applied Aquaculture                 | Su         | _____ |
| BIO 5371 Animal Ecology Lab &                | F odd      | _____ |
| BIO 5373 Animal Ecology                      | F odd      | _____ |
| BIO 5372 Applied Fisheries                   | Su         | _____ |
| BIO 5382 Parasitology &                      | Sp         | _____ |
| BIO 5392 Parasitology Lab                    | Sp         | _____ |
| BIO 5401 Ichthyology Lab &                   | Sp even    | _____ |
| BIO 5402 Ichthyology                         | Sp even    | _____ |
| BIO 5403 Comparative Vertebrate Reprod.      | F even     | _____ |
| BIO 5411 Herpetology Lab &                   | Sp even    | _____ |
| BIO 5412 Herpetology                         | Sp even    | _____ |
| BIO 5421 Ornithology Lab &                   | Sp even    | _____ |
| BIO 5423 Ornithology                         | Sp even    | _____ |
| BIO 5433 Field Experience in Marine Environ. |            | _____ |
| BIO 5444 Wildlife Population Modeling        |            | _____ |
| BIO 544V Special Topics _____                |            | _____ |
| BIO 5513 Plant Physiology                    | F odd      | _____ |
| BIO 5521 Wetlands Plant Ecology Lab &        | Sp even    | _____ |
| BIO 5522 Wetlands Plant Ecology              | Sp even    | _____ |
| BIO 5541 Mycology Lab &                      | F odd      | _____ |
| BIO 5542 Mycology                            | F odd      | _____ |
| BIO 5551 Medical Mycology Lab &              | F even     | _____ |
| BIO 5552 Medical Mycology                    | F even     | _____ |
| BIO 5601 Limnology Lab &                     | F odd      | _____ |
| BIO 5603 Limnology                           | F odd      | _____ |
| BIO 5613 Conservation Biology                | Sp odd     | _____ |
| BIO 5263 Environmental Microbiology          | Sp odd     | _____ |
| BIO 5611 Radiation Safety                    | All        | _____ |
| BIO 5633 Environ Toxicology:Mech & Imp.      | F even     | _____ |
| BIO 5704 Plant Systematics                   | Sp         | _____ |
| BIO 5714 Dendrology                          | F even     | _____ |