

Course of Study: MS in Biology with Concentration in Physiology

**I. Required Courses:**

BIOL540 Mammalian Physiology	3 credits
BIOL520 Plant Physiology	4 credits
BIOL544 Comparative Animal Physiology	4 credits
BIOL592 Graduate Colloquium	1 credit
TOTAL	12 credits

**II. Electives (no more than 6 credits at 400 level):**

BIOL429 Herpetology	4 credits
BIOL430 Ornithology	4 credits
BIOL533 Advanced Cell Biology	3 credits
BIOL542 Advanced Endocrinology	3 credits
BIOL543 Advances in Immunology	3 credits
BIOL546 Topics in Physiology	3 credits
BIOL547 Molecular Biology I	3 credits
BIOL549 Topics in Developmental Biology	3 credits
BIOL551 Intermediary Metabolism I	3 credits
BIOL552 Biology of Lipids	3 credits
BIOL554 Microbial Physiology	3 credits
BIOL570 Ecology	3 credits
BIOL571 Physiological Plant Ecology	4 credits
BIOL576 Biology of Extreme Habitats	3 credits
BIOL579 Physiological Ecology of Animals	3 credits
BIOL586 Selected Advanced Topics in Biology	3-4 credits
CHEM470 Biochemistry I	3 credits
STAT401 Applied Stats for the Sciences	3 credits
STAT440 Fundamentals of Modern Statistics I	3 credits
STAT541 Applied Statistics	3 credits
STAT546 Non-parametric Statistics	3 credits
STAT547 Design and Analysis of Experiments	3 credits
STAT548 Applied Regression Analysis	3 credits
TOTAL ELECTIVES	13-15 credits

### III. Comprehensive Exam/Thesis (5 or 7 credits)

#### Thesis Option:

BIOL597 Research in Biological Literature	1 credit		
BIOL698 Master's Thesis	6 credits	TOTAL	7
credits			

#### Non-Thesis Option:

BIOL597 Research in Biological Literature	1 credit		
BIOL599 Introduction to Biological Research	4 credits		
Comprehensive exam	0 credits	TOTAL	5
credits			

TOTAL REQUIRED CREDITS 32