MS BIOLOGICAL SCIENCES

Program Learning Objectives
1. Demonstrate a thorough understanding and competency in a subdiscipline of specialization within the biological sciences.
2. Communicate scientific ideas effectively in both oral and written formats.
3. Demonstrate an ability to think critically and evaluate, design, conduct, and quantitatively analyze or assess research in a biological discipline.
4. Demonstrate the skills and knowledge needed for employment or advanced graduate or professional study in discipline related areas.

Required Courses
Select from the following: 8
- BIO 501 Molecular & Cellular Biology
- BIO 502 Biology of Organisms
- BIO 503 Population Biology
- BIO 560 Graduate Professional Seminar 2
- BIO 561 Proposal Writing for Biological Research 3
- BIO 590 Seminar in Biology 3
- BIO 591 Biology Colloquium 2
- BIO 599 Thesis 9

Select from the following: 4
- STAT 419 Applied Multivariate Statistics
- STAT 513 Applied Experimental Design and Regression Models
- STAT 523 Design and Analysis of Experiments I
- STAT 524 Applied Regression Analysis

Electives
Additional units at the 400 or 500 level. 1 14

Total units 45

1 Electives must include 5 units taken within the Biological Sciences Department at Cal Poly in order to meet the program requirement of 32 units.

All 45 units must be acceptable for graduate credit and in accordance with Graduate Guidelines of the Biological Sciences Department. Coursework must include 32 units taken within the Biological Sciences Department at Cal Poly. For further information, students should communicate with the Chair of the Biological Sciences Department or with the Director of the Graduate and Research Committee.