California State University
Channel Islands
Masters of Science in Biotechnology
Biotechnology Emphasis

Advising Form: Effective Fall, 2020 (Catalog year 2020 onwards)

Name: _____   ID Number: _____

Term Admitted: _____   Last Updated: _____

The MS Biotechnology degree consists of three parts: MS Biotechnology Core curriculum (19 units), Biotechnology Emphasis requirements (8 units), & Electives (6 units minimum) for a total of 33 units.

Students must obtain a grade of C or better in order for courses to be applied to the MS in Biotechnology degree. Students must receive a grade of B or better in BINF 500 to satisfy the **Graduate Writing Assessment Requirement** (GWAR) necessary for graduation

MS Biotechnology Curriculum	Units	Institute	Course	Units	Grade	Term	Comments
MS Biotechnology Common Core Courses (19 units)							
BINF 500 DNA and Protein Sequence Analysis	3						
BIOL 502 Techniques in Genomics and Proteomics	3						
BIOL 503 Biotechnology Law and Regulation	3						
BIOL 504 Molecular Cell Biology	3						
BIOL 505 Molecular Structure	4						
BIOL 510 Tissue Culture Techniques and Stem Cell Technology	3						
Biotechnology Emphasis Required Courses (8 units)							
BINF 514 Statistical Methods in Computational Biology	3						
BIOL 601 Seminar in Biotechnology	1						
BIOL 600 Team Project	4						
Electives (Minimum 6 units)							
BIOL 500 Intro to Biopharmaceutical Production Operations	3						
BIOL 507 Pharmacogenomics and Pharmacoproteomics	3						

BIOL 508 Advanced Immunology	4						
BIOL 512 Advanced Topics in Regenerative Medicine	1						
BIOL 513 Cell Culture Facility Management	3						
BIOL 516 Clinical Trials and Quality Assurance	3						
BIOL 517 Mechanisms of Development	3						
BIOL 518 Advanced Topics in Molecular Cell Biology	3						
MGT 471 Project Management	3						
BIOL 590 Special Topics	3						
BIOL 597 Directed Study	1						
BIOL 603 Biotechnology Internship	3						
BME 500 Biological Systems and Biomechanics	3						
BME 501 Fundamentals of Tissue Engineering and Biomaterials	3						
BME 502 Biomedical Instrumentation and Devices	3						
BINF501 Biological Informatics	3						