

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

Name: \_\_\_\_\_ ID Number: \_\_\_\_\_

Term Admitted: \_\_\_\_\_ Last Updated: \_\_\_\_\_

The MS Biotechnology degree with Stem Cell Technology & Laboratory Management (SCTLM) Emphasis consists of three parts: MS Biotechnology Core curriculum (19 units), SCTLM requirements (10 units), & Electives (6 units minimum) for a total of 35 minimum units required.

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
<b>MS Biotechnology Common Core Courses (19 Units)</b>							
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						
<b>Stem Cell Technology &amp; Laboratory Management Emphasis Required Courses (10 units)</b>							
BIOL 512 Advanced Topics in Regenerative Medicine	1						
BIOL 513 Cell Culture Facility Management	3						
BIOL 602 Stem Cell Technology Internship (@ 2units per term)	6						
<b>Electives (Minimum 6 units)</b>							
BIOL 500 Intro to Biopharmaceutical Production Operations	3						
BIOL 507 Pharmacogenomics and Pharmacoproteomics	3						

BIOL 508 Advanced Immunology	4						
BIOL 516 Clinical Trials and Quality Assurance	3						<b>Required Elective for SCLTM</b>
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						
BINF501 Biological Informatics	3						
BINF 514 Statistical Methods in Computational Biology	3						
BME 500 Biological Systems and Biomechanics	3						
BME 501 Fundamentals of Tissue Engineering and Biomaterials	3						
BME 502 Biomedical Instrumentation and Devices	3						