



**California State University Channel Islands**  
**Dual Degree: Master of Science in Biotechnology**  
**and Master of Business Administration**

**Biotechnology Emphasis**

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

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

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

The MS Biotechnology and MBA dual degree with Stem Cell Technology & Laboratory Management Emphasis consists of seven parts: MS Biotechnology Prerequisites or MBA Foundations courses (12 units, as required), MS Biotechnology Core (16 units), MS Biotechnology Electives (7 units), MBA Core courses (18 units), Common Core Courses (9 units) and MBA Electives (6 units double-counted).

Students must obtain a grade of “C” or better in order for courses to be applied to the MS in Biotechnology and Master of Business Administration dual degree. Students must receive a grade of “B” or better in BINF 500 and BUS 520 to satisfy the Writing Assessment requirement (GWAR) necessary for graduation.

MS Biotechnology/MBA Curriculum	Units	Instit.	Course	Units	Grade	Term	Comments
<b>MS Biotechnology Prerequisites (16 units, as required)</b>							
CHEM 110 Chemistry of Life	4						Or equivalent course
BIOL 201 Principles of Cell & Molecular Biology	4						Or equivalent course
BIOL 300 Cell Biology	4						Or equivalent upper-division course
BIOL 400 Molecular Biology	4						Or equivalent upper-division course
<b>MBA Foundation Requirements (12 units)</b>							
BUS 500 Economics for Managers	3						
BUS 502 Quantitative Methods for Decision Making	3						
BUS 504 Introduction to Accounting and Finance	3						
BUS 506 Principles of Management & Marketing	3						
BUS 508 Business Ethics & Law	3		<b>Waived</b>				Waived for Dual Degree majors based on BIOL 503
<b>MS Biotechnology Core Requirements (16 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						

BIOL510 Tissue Culture Techniques and Stem Cell Technology	3						
BIOL601 Seminar in Biotechnology	1						
<b>MS Biotechnology Electives (Minimum 7 units)</b>							
BIOL 500 Intro to Biopharmaceutical Production Operations	3						
BIOL 505 Molecular Structure	4						
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						
BIOL 603 Biotechnology Internship	3						
BIOL 590 Special Topics	3						
BIOL 597 Directed Study	1						
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						
<b>Common Core Curriculum (9 units)</b>							
MGT 471 Project Management	3						
BIOL/BUS 610 Team Project	6						
<b>MBA Core Requirements (18 units)</b>							
BUS 510 Managerial and Organizational Behavior	3						

BUS 520 Strategy and Leadership	3						
BUS 530 Managing Business Operations	3						
BUS 540 Accounting for Managerial Decision Making	3						
BUS 550 The Contemporary Firm in the Digital Age	3						
BUS 560 The Entrepreneurial Manager	3						
<b>MBA Electives (6 units, double-counted)</b>							
BINF 500 DNA & Protein Sequence Analysis	3						
BIOL 503 Biotechnology Law and Regulation	3						

**Advising Notes:**