



California State University Channel Islands

Dual Degree: Masters of Science in Biotechnology and Masters of Business Administration

Advising Form: 2017-2018

Name: _____ ID Number: _____

Term Admitted: _____ Last Updated: _____

The MS Biotechnology and MBA dual degree consists of 4 parts: MS Biotechnology Prerequisites or MBA Foundations courses (16 units, as required), MS Biotechnology and MBA Core courses (36 units), Electives (13 units), and Team Project (6 units) for a total of 72 minimum units required.

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

MS Biotechnology/MBA Curriculum	Units	Instit.	Course	Units	Grade	Term	Comments
MS Biotechnology Prerequisites (16 units, as required)							
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
MBA Foundation Requirements (16 units, as required)							
BUS 500 Economics for Managers	3						Undergraduate equivalent = 1 semester micro economics + 1 semester macro economics
BUS 502 Quantitative Methods for Decision Making	3						Undergraduate equivalent = upper division statistics or CSUCI's BIOL 203
BUS 504 Introduction to Accounting and Finance	4						Undergraduate equivalent = Financial Acctg + Managerial Acctg + Business Finance
BUS 506 Principles of Management & Marketing	3						Undergraduate equivalent = Principles of Management + Principles of Marketing
BUS 508 Business Ethics & Law	3					Waived	Waived for Dual Degree majors based on BIOL 503
MS Biotechnology Core Requirements (16 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 510 Tissue Culture Techniques & Stem Cell Technology	3						
BIOL 601 Seminar in Biotechnology	1						
Electives (Minimum 7 units)							
BIOL 500 Intro to Biopharmaceutical Production Operations	3						
BIOL 505 Molecular Structure	4						
BIOL 506 Molecular Evolution	4						
BIOL 507 Pharmacogenomics and Pharmacoproteomics	3						
BIOL 508 Advanced Immunology	4						
BIOL 509 Plant Biotechnology	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 604: Biotechnology Across National Boundaries	2						
BIOL 605: Biotechnology Across national Boundaries Field Trip	1						
MGT 421 Human Resource Management	3						
BIOL 590 Special Topics	3						
BIOL 597 Directed Study	1						
BINF 511: Computational Genomics	3						
BINF 512 Algorithms for Bioinformatics	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						
PHYS 464 Medical Instrumentation	3						
Common Core Curriculum (9 units)							
MGT 471 Project Management	3						
BIOL/BUS 610 Team Project	6						
MBA Core Requirements (18 units)							
BUS 510 High Performance Management	3						
BUS 520 Strategy and Leadership	3						
BUS 530 Managing Business Operations	3						
BUS 540 Financial Reporting and Analysis	3						
BUS 550 The Contemporary Firm	3						
BUS 560 The Entrepreneurial Manager	3						
MBA Electives (6 units, double-counted)							
BINF 500 DNA & Protein Sequence Analysis	3						
BIOL 503 Biotechnology Law and Regulation	3						

Advising Notes:

Reviewed

Nitika Parmar, PhD
 Director, MS in Biotechnology & Bioinformatics

Priscilla Liang, PhD
 Director, Masters of Business Administration