

Biology

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

Stem Cell Technology & Laboratory Management Emphasis

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

Name:				_ ID	Number:		
Term Admitted:				_ Last	Updated:		
The MS Biotechnology and M consists of seven parts: MS E Biotechnology Core (12 units Biotechnology Electives (6 un Electives (6 units double-cour	Biotechno), Stem (nits), MB	ology Prere Cell Techno	quisites or M logy & Labor	BA Foundation	dations cou nagement l	rses (12 un Emphasis co	its, as required), MS ourses (13 units), MS
Students must obtain a grade Master of Business Administr BUS 520 to satisfy the Writing	ation du	al degree. S	Students mus	t receive	a grade of	"B" or bette	
MS Biotechnology/MBA Curriculum	Units	Instit.	Course	Units	Grade	Term	Comments
MS Biotechnology Prerequis	sites (16	units, as i	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 Requireme	ents (12	units)					
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		,	WAIVED			Waived for Dual Degree majors based on BIOL 503
MS Biotechnology Core Req	uireme	nts (12 Uni	ts)				
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	2						

Stem Cell Technology & Laboratory Management Emphasis Required Courses (13 units)							
BIOL510 Tissue Culture Techniques and Stem Cell Technology	3						
BIOL 512 Advanced Topics in Regenerative Medicine	1						
BIOL 513 Cell Culture Facility Management	3						
BIOL 602 Stem Cell Technology Internship	6						
MS Biotechnology Electives	(Minim	um 6 units)				
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 509 Plant Biotechnology	4						
BIOL 516 Clinical Trials and Quality Assurance	3						Required for SCTLM Emphasis
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						
BIOL 590 Special Topics	3						
BIOL 597 Directed Study	1						
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						
Common Core Curriculum (9 units)							

MGT 471 Project Management	3				
BIOL/BUS 610 Team Project	6				
MBA Core Requirements (1	8 units)		•		
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				
MBA Electives (6 units, dou	ble-count	ed)			
BINF 500 DNA & Protein Sequence Analysis	3				
BIOL 503 Biotechnology Law and Regulation	3				

Advising Notes:		