

**BIOLOGY**
**Bachelor of Arts**

CONCORDIA UNIVERSITY IRVINE		MARYMOUNT CALIFORNIA UNIVERSITY
<b>Must take in Enduring Questions &amp; Ideas (GE)</b>		
CHE 221	Chemistry I	SCI 220 – General Chemistry I (5)
<b>CORE</b>		
BIO 111	General Biology I	SCI 240 – General Biology I (4)
BIO 112	General Biology II	SCI 241 – General Biology II (4)
BIO 350	Molecular and Cellular Biology	SCI 340 – Cell Biology (4) <b>and</b> SCI 341 – Techniques in Biology Laboratory (2)
BIO 499	Senior Thesis	no equivalent - *see note below
CHE 222	Chemistry II	SCI 221 – General Chemistry II (5)
SCI 455	History and Philosophy of Science	no equivalent - **see note below
<b>Choose 1 of the following options:</b>		
SCI 495	Research Methods	no equivalent - *see note below
BIO 496	Research in Biology	SCI 395 - Independent Study (1-4) <b>or</b> SCI 495 - Independent Study (1-4) *see note below
OR		
BIO 490	Internship: Biology	no equivalent
<b>Choose 1 of the following courses:</b>		
BIO 308	Molecular Genetics	SCI 380 – Molecular Biology (5)
BIO 309	Popular Genetics	no equivalent
<p><i>*CUI's SCI 495 &amp; BIO 496 is a 2-3 semester thesis research series whereas Bio 490 is a 3-unit internship option. Both are followed by Bio 499, where students present their research/internship. If you have already completed hands-on research or an internship, we may be able to give credit for these courses and have you complete Bio 499 before graduating. If you are too close to graduation to complete either series, we will work with you to find a solution (e.g. smaller-scope research project, short internship, waive the requirement, etc.)</i></p> <p><i>**CUI's SCI 455 is a senior-level course that captures a critical element of the Concordia Biology Department experience and is the only course we intend to have every transfer student take before graduation. It is offered each semester.</i></p>		
<b>ELECTIVES:</b>		
<b>Choose a minimum of 23 units from the following courses. *If not taken above.</b>		
BIO 246 <b>and</b> BIO 247	Human Anatomy & Physiology I <b>and</b> Human Anatomy & Physiology II	SCI 132 – Human Anatomy (4) <b>and</b> SCI 133 – Human Physiology (4)
BIO 308	Molecular Genetics *	SCI 380 – Molecular Biology (5)
BIO 309	Population Genetics *	no equivalent
BIO 317	Ecology	no equivalent
BIO 331	Marine Biology	SCI 160 – Marine Biology (4)
BIO 341	Plant Biology	no equivalent
BIO 345	Evolutionary Zoology	SCI 130 – Biology of Animals (4 units)
BIO 351	General Microbiology	SCI 330 – Biology of Microorganisms (4)
BIO 355	Biostatistics	no equivalent
BIO 361	Field Biology Techniques	no equivalent
BIO 371	Neuroscience	no equivalent
BIO 390	Practicum: Biology	no equivalent

BIO 401	Biology Seminar	SCI 443 – Biology Seminar (4)
CHE 321	Organic Chemistry I	SCI 315 – Organic Chemistry I (5)
CHE 322	Organic Chemistry II	SCI 316 – Organic Chemistry II (5)
CHE 421	Biochemistry I	SCI 320 – Biochemistry (4) <b>and</b> SCI 321 – Biochemistry Lab (2)
KIN 317 or KIN 406	Kinesiology Exercise Physiology	no equivalent SCI 333 – Exercise Physiology (4)
PHI 467	Bioethics and Healthcare Professions	no equivalent
SCI 118	Physical Oceanography	no equivalent
SCI 301	Earth Science	no equivalent
SCI 318	Ocean Science	no equivalent
Additional approved major electives – LD (lower division); UD (upper division)		
		SCI 135 – Anatomy and Physiology (4) - LD
		SCI 136 – Medical Terminology (1) - LD
		SCI 140 – Plants and Civilization (4) - LD
		SCI 150 – Microbiology (4) <i>Not eligible if SCI 330 taken</i> - LD
		SCI 170 - Ecology of Humans (4) - LD
		SCI 233 – Science of Human Performance (4) - LD
		SCI 242 – General Biology III (4) - LD
		SCI 246 – Nutrition (4) - LD
		SCI 334 – Ergogenic Aids in Sports (4) - UD
		SCI 340 – Cell Biology (4) - UD
		SCI 341 – Technique in Biology Laboratory (3) - UD
		SCI 342 – Science Career Seminar (4) - UD
		SCI 350 – Genomics (4) - UD
		SCI 440 – Immunology (4) - UD
		SCI 442 – Developmental Biology (4) - UD

The Biology Department approaches these articulations with the desire to facilitate the timely graduation of any MCU transfer student. Therefore, our philosophy is to accept as many courses as possible and provide flexible options to accommodate students. The articulations below are a baseline of our standards, but we are willing to work with each student's unique circumstances and are *especially willing* to accommodate students who are already close to completing their degree.