

Bachelor of Science in Cell and Molecular Biology (CMOL)

2014-2015 Catalog • 5/1/14

In order to earn the Bachelor of Science in Cell and Molecular Biology degree, students must complete a minimum of 180 quarter credits with a cumulative and major/program grade point average of 2.0, including:

			prereqs	credits	quarter?
I. Core Curriculum Requirements:	UCOR 1100	Academic writing seminar	–	5	
	UCOR 1300	Creative expression and interpretation	–	5	
	UCOR 1400	Inquiry seminar in humanities	–	5	
	UCOR 1600	Inquiry seminar in social sciences	–	5	
	UCOR 2100	Theological explorations	UCOR 1100	5	
	UCOR 2500	Philosophy of the human person	UCOR 1100	5	
	UCOR 2900	Ethical reasoning	UCOR 2500	5	
	UCOR 3100	Religion in a global context	UCOR 2100	5	
	UCOR 3400	Humanities and global challenges	75 credits + UCOR 1300,1400	5	
	UCOR 3600	Social Science and global challenges	75 credits + UCOR 1300,1600	5	

Note: UCOR 1200 and UCOR 1800 are fulfilled by courses required for Biology majors.

II. Major Curriculum Requirements:	BIOL 1610+1611	General Biology I + Lab I	4+1	FW	
	BIOL 1620+1621	General Biology II + Lab II	4+1	W	
	BIOL 1630+1631	General Biology III + Lab III	4+1	S	
	BIOL 2700	Genetics	5	FW	
	BIOL 2750+2751 §	<i>Biotechnology</i> + Lab	4+2	S	
	BIOL 3750/3760/3770	(Mol Bio or <i>Protein</i>) Proj Lab or Genomics	5	W/I–/I/S	
	BIOL 4100/4150/4700	Med Micro or Immunology or Mol Genetics	5	S/I/F/W	
	BIOL 4750+4751	Cell Biology + Lab	4+2	FWS	
	CHEM 4500	Biochemistry I	3	FS	
		Biology Electives (<i>higher than BIOL 2220</i>)	10		

Senior Synthesis:	BIOL 4994	Independent Experience (<i>senior research</i>)	≥ 2		
	BIOL 4996	Senior Synthesis Seminar	1	S	
	or: BIOL 4992	Biology Senior Synthesis	3	S	

*** **Biology/Biochemistry requirements: 58**

§ Prerequisites for enrollment in BIOL2750+2751 are: BIOL 1610/1611, 1620/1621, 1630/1631; CHEM 1520/1521; & BIOL 2700 with a C+ or better; and a minimum biology major GPA of 2.8; or permission of instructor.

CHEM 1500+1501	General Chemistry I + Lab I	4+1	FW	
CHEM 1510+1511	General Chemistry II + Lab II	4+1	WS	
CHEM 1520+1521	General Chemistry III + Lab III	4+1	SSu	
CHEM 2500+2501	Foundations of Organic Chemistry I + Lab	4+2	FW	
CHEM 2510+2511	Foundations of Organic Chemistry II + Lab	4+2	WS	

*** Choose a or b from each category below:

Math/Stats a:	MATH 1334	Calculus I	5	FWS	
	MATH 1335	Calculus II	5	FWS	
Math/Stats b:	MATH 1210	Statistics for Life Sciences	5	FWS	
	MATH 1230	Calculus for Life Sciences	5	FW	

Physics a:	PHYS 1050	Mechanics and Sound	5	F	
	PHYS 1060	Electricity, Magnetism, & Thermodynamics	5	W	
	PHYS 1070	Survey of Modern Physics	5	S	
Physics b:	PHYS 1210	Mechanics and Sound	5	WS	
	PHYS 1220	Electricity and Magnetism	5	SF	
	PHYS 1230	Waves and Optics	5	FW	

*** **Other science requirements: 52**

*** **Total Major Curriculum Requirement credits required for graduation: 110**