

## CEDAR CREST COLLEGE BIOLOGY MAJOR (B.S.)

Student Name: \_\_\_\_\_ ID #: \_\_\_\_\_ Grad year: \_\_\_\_\_

Required Courses <i>[Prerequisites are listed in brackets]</i>	Cred.	Offered	Semester	Grade
BIO 121 <sup>+</sup> Principles of Biology I	3+1	Fall		
BIO 122 <sup>+</sup> Principles of Biology II	3+1	Spring		
CHE 111 Chemical Principles	4	Fall*		
CHE 112 Chemical Equilibrium and Analysis <i>[CHE 111]</i>	4	Spring*		
MAT --- Math course at appropriate level, usually MAT 141	3			
MAT --- Math course at appropriate level, usually MAT 142	3			
PHY 101 Introductory College Physics I	4	Fall*		
PHY 102 Introductory College Physics II <i>[PHY 101]</i>	4	Spring*		
BIO 235 Ecology, Evolution and Genetics <i>[BIO 121, 122; CHE 111, 112 recom.]</i>	3+1	Fall		
BIO 236 Cell and Molecular Biology <i>[BIO 121, 122; CHE 111, 112 recommended]</i>	3+1	Spring		
<i>Students who have previously taken BIO 222, 231, or 234 should consult their advisors or the department website to determine the courses needed to complete the major.</i>				
CHE 205 Organic Chemistry I <i>[one year of college chemistry]</i>	4	Fall*		
CHE 206 Organic Chemistry II <i>[CHE 205]</i>	4	Spring*		
BIO 350 <sup>++</sup> Junior Colloquium <i>[BIO 121, 122; Junior standing]</i>	2	Fall		
BIO 355 <sup>++</sup> Science, Ethics, and Society <i>[BIO 350]</i>	2	Fall		
<b>Organismal course.</b> Choose one from the following options:				
BIO 207 Botany <i>[BIO 111 or 122 or permission]</i>	4	Fall 07, 09		
BIO 227 Microbiology <i>[BIO 121, 122; CHE 111, 112]</i>	3+1	Fall		
BIO 328 Marine Ecology & Conservation <i>[BIO 221 or 234]</i>	4	Fall 08/Jan 09		
Two or more Hawk Mt. courses summing to at least 4 credits Includes BIO 251, 252, 253, 256 or 259				
<b>Four additional elective courses (two must have labs).</b> Choose from: any 200- or 300- level BIO (except BIO 240) or NEU courses or CHE 307, 308 or 348. A 3 credit course plus a mini-lab may count as one 4 credit elective.				
BIO Elective 1 <sup>++</sup> , with lab	4			
BIO Elective 2 <sup>++</sup> , with lab	4			
BIO Elective 3	3-4			
BIO Elective 4	3-4			
<b>NOTES:</b> Grades of C- or higher must be attained in all required courses for the major, and in prerequisite courses before proceeding to subsequent courses. A minimum cumulative GPA of 2.000 and a minimum average in the major of 2.000 are required. <sup>+</sup> For students with AP credit, BIO 121 and 122 labs must be taken at Cedar Crest College. <sup>++</sup> For transfer students, these courses must be taken at Cedar Crest College. * May be available in summer; please consult the department offering the course.				

## BIOLOGY MAJOR (B.S.) RESEARCH AND THESIS OPTION

Student Name: \_\_\_\_\_

Faculty Research Advisor: \_\_\_\_\_

Course <i>[Prerequisites are listed in brackets]</i>	Requirement	Semester	Grade
BIO 243 Biology Independent Research <i>[permission of faculty research supervisor]</i>	Optional, taken prior to the completion of BIO 350		
BIO 350 Junior Colloquium <i>[BIO 121, 122; Junior standing]</i>	Required for the major		
Research proposal approved by faculty research supervisor	Included as part of BIO 350		
BIO 353 Biology Independent Research <i>[BIO 350, permission of faculty research supervisor]</i> OR CHE 391/392	Minimum of two semesters (4-6 credits) required for Thesis option		
BIO 354 Thesis and Presentation <i>[Declared major within the Department of Biological Sciences; permission of the faculty supervising the research; 4 credits of BIO 353, CHE 391/392; 2 credits of BIO 353 - CHE391/392 may be taken concurrently]</i> (CHE 391/392 students enroll in BIO 354 for 0 credits)	Taken in the final semester before graduation		

**NOTE:** Students who are completing a joint Biology / Honors research project should enroll in their final two semesters as follows:

- HON 350 and 351 for 3 credits per semester
- BIO 353 or CHE 391/392 for zero credits
- BIO 354 for zero credits

*Major requirements checklist revised May, 2008*

*For a complete description of major requirements and policies, refer to the Cedar Crest College Catalog and the Department of Biological Sciences website: [www2.cedarcrest.edu/academic/bio/acad\\_policies.htm](http://www2.cedarcrest.edu/academic/bio/acad_policies.htm)*

## LIBERAL ARTS CURRICULUM FOR THE BIOLOGY MAJOR (B.S.)

Effective beginning 2007-2008	Requirement		Course	Semester	Grade
	ART	Arts: six credits; one course must be a 3-credit course			
	HUM	Humanities: two courses from different disciplines			
	ML	Mathematics and Logic: two courses; one must be a college-level math course	MAT MAT		
	SCI	Natural Sciences: two courses; one must be a lab course	BIO 121 BIO 122		
	SS	Social Sciences: two courses from different disciplines			
	ETH	Ethics: one course			
	GS	Global Studies: one course			
	WRI 1	Writing 1: one course	WRI 100 or HON 122		
	WRI 2	Writing 2: one course			
<p><b>NOTES:</b> At least four different disciplines must be represented in the Humanities and Social Sciences categories; one additional discipline must be represented in the Arts category. A grade of C or better is required in courses fulfilling requirements of the Liberal Arts Curriculum.</p>					

Only for students matriculated in 2006-2007 or earlier	Requirement		Course	Semester	Grade
	ART	Arts (one classroom)			
	IHE*	Illuminating the Human Experience			
	MQR	Math and Quantitative Reasoning	MAT MAT		
	SR	Scientific Reasoning	BIO 121 BIO 122		
	ETH	Ethics			
	WV	World Views			
	WRI 1	Writing 1 <i>grade of C or better required</i>	WRI 100 or HON 122		
	WRI 2	Writing 2			
	Theme	Course	Credits	Semester	Grade
	SD	BIO 231**	4		
<b>TOTAL (21 credits in theme courses required):</b>					
<p><b>NOTES:</b> At least four different disciplines must be represented in the Liberal Arts Theme. * Only one of the two courses fulfilling the IHE requirement may be applied to the Liberal Arts Theme. ** A maximum of 4 credits from the student's primary major may be applied to the Liberal Arts Theme.</p>					