



**DEGREE WORKSHEET FOR:
BS Biological Sciences, Pre-Health and Biomedical
Sciences Emphasis (NSF-BIOTA Program)
2011-2012 Catalog
Degree Requirements – 120 credits**

YEAR 1- FALL (14 credits)		YEAR 1- SPRING (14 credits)	
BIO 102 Success in Biology I ⁴	1 credit	BIO 103 Success in Biology II ⁴	1 credit
BIO 110 Principles of Biology (LAC Area 6) (F,S)	4 credits	BIO 111 Survey of Organismal Biology (F,S)	4 credits
BIO 112 Principles of Biology Applications ⁴	1 credit	BIO 114 Applications of Organismal Biology	1 credit
CHEM 111 Principles of Chemistry I (LAC Area 6) (F,S)	5 credits	CHEM 112 Principles of Chemistry II ⁴ (F,S)	5 credits
ENG 122 College Composition (LAC Area 1a) (F,S)	3 credits	SCI 291 Scientific Writing (LAC Area 1b) (F,S)	3 credits
YEAR 2- FALL (16 credits)		YEAR 2-SPRING (17 credits)	
BIO 210 Cell Biology (F,S)	3 credits	BIO 220 Genetics (F,S)	4 credits
BIO 211 Cell Biology Applications ⁴	1 credit	BIO 221 Genetics Applications ⁴	1 credits
MATH 171 Calc I for Life Sciences (LAC Area 2) (F,S)	4 credits	BIO 351 Microbiology (S)	4 credits
CHEM 331 Organic Chemistry I (F)	5 credits	CHEM 332 Organic Chemistry II (S)	5 credits
Liberal Arts Core ¹ (Areas 3, 4, 5, 7, or 8)	3 credits	Liberal Arts Core ¹ (Areas 3, 4, 5, 7, or 8)	3 credits
YEAR 3- FALL (14 credits)		YEAR 3- SPRING (15-16 credits)	
STAT 150 Intro. to Stat Analysis (LAC Area 2) (F,S)	3 credits	PHYS 221 General Physics II ² (S)	5 credits
PHYS 220 General Physics I ² (LAC Area 6) (F)	5 credits	University Wide Electives	4 credits
BIO>300 Upper Division Elective in Major ³	3 credits	Liberal Arts Core ¹ (Areas 3, 4, 5, 7, or 8)	3 credits
BIO 341 Human Anatomy OR BIO 552 Mammalian Physiology I ⁴ (F)	3 credits	BIO 350 Human Physiology OR BIO 553 Mammalian Physiology II ⁴ (S)	3-4 credits
YEAR 4- FALL (15 credits)		YEAR 4- SPRING (14 credits)	
BIO 360 Ecology (F, Su)	4 credits	BIO 450 Cell Physiology (S)	3 credits
BIO>300 Upper Division Elective in Major ³	4 credits	BIO 442 Molecular and Cellular Laboratory	2 credits
Liberal Arts Core ¹ (Areas 3, 4, 5, 7, or 8)	4 credits	BIO 465 Evolution (S, Su)	3 credits
University Elective	3 credits	BIO>300 Upper Division Elective in Major ³	3 credits
		University Elective	2 credit
		Capstone Professional Experience ⁶	1 credit
		School of Biological Sciences Exit Exam ⁷	

(F) = offered in Fall (S) = offered in Spring (SU) = offered in summer

Admission Requirement – No separate admission requirement.

Minor Required – No Minor required.

Notes – see page 2.

Contact Information – School of Biological Sciences

Ross Hall Room 2480, (970) 351-2921

Biology-pre-health and biomedical sciences (NSF-BIOTA) 11-12
4-12-11

School Web Page: <http://www.unco.edu/nhs/biology>

BS Biological Sciences-Pre-Health and Biomedical Sciences (NSF-BIOTA) (cont.)

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This worksheet is a recommended schedule to complete your bachelor's degree in 4 years. Every UNC student must meet the following requirements in order to graduate with a bachelor's degree: earn a minimum of 120 semester credit hours; possess a minimum of a 2.00 cumulative grade point average; have at least 40 credit hours in courses designated as Liberal Arts Core and meet all degree requirements in the student's major field of study. Each major and/or emphasis may have additional requirements necessary for graduation. **Students must consult with their major advisor to receive information on any additional graduation requirements.**

Notes

- ¹ Liberal Arts Core courses can be taken any semester. It is strongly suggested that they be evenly distributed over the entire 4 years of study rather than concentrated in the first 2 years. **NOTE: Be certain to select courses from Areas 7 and 8 that also count for Areas 3, 4 or 5.**
- ² Either PHYS 220/221 or PHYS 240/241 can be taken. PHYS 240/241 can be substituted but both MATH 131 and MATH 132 are required.
- ³ Elective Major Courses- Must take at least 17 credits from BIO courses level 300 or higher. Course credit ranges from 1-4.
- ⁴ BIO 102, 103, 112, 114, 211 and 221 will count as Biological Science Advanced Study category.
- ⁵ Either BIO 341 Human Anatomy and BIO 350 Human Physiology or BIO 552 Mammalian Physiology I and BIO 553 Mammalian Physiology II are required. If BIO 552 & 553 are completed for the Anatomy & Physiology requirement, the number of advanced study credits will be increased by 1.
- ⁶ Capstone Professional Experience requirement can be met by completing a minimum of 1 credit hour from the following course options: BIO 422, BIO 492, or BIO 494.
- ⁷ All Biology Majors must take the School of Biological Sciences Exit Exam during the last semester of Senior Year. (Excluding summer). **Make an appointment at Testing Center.**
- All Biology Majors are required to have a minimum of a 2.0 GPA in all BIO prefix courses taken to meet their major requirements.
- Students receiving "D" or "F" in BIO courses taken to meet their major requirements must repeat the courses.
- Some Upper Division Biology courses are offered every other year. Check with your advisor to find out when they are offered.
- Remember to get a graduation check in Carter Hall (Room 3002) after 90 semester hours.
- A maximum of 6 credits total of BIO 422, 492, 494, 495, 585, and 592 can count toward the Biological Advanced study category.

Minimum entrance requirements for University of Colorado Medical School (as of 5/10)

Check other schools in which you are interested for their current requirements.

- One year of biology with lab (8 semester hours)
- One year of general chemistry with lab (8 semester hours)
- One year of organic chemistry with lab (8 semester hours)
- One year of physics with lab (8 semester hours)
- Six credits of math (Algebra and above)
- Six credits of English (Composition and English Literature)

