



DEGREE WORKSHEET FOR:
BS Biological Sciences: Pre-Health and Biomedical
Sciences Emphasis
2017-2018 Catalog
Degree Requirements – 120 credits

YEAR 1- FALL (15 credits)		YEAR 1- SPRING (15-16 credits)	
ENG 122 College Composition (LAC Area 1a) (F,S)	3 credits	BIO 111 Survey of Organismal Biology (F,S)	4 credits
BIO 110 Principles of Biology (LAC Area 6) (F,S)	4 credits	CHEM 112/112L Principles of Chemistry II (F,S)	4/1credits
CHEM 111/111L Principles of Chemistry I (LAC Area 6) (F,S)	4/1 credits	SCI 291 Scientific Writing (LAC Area 1b) (F,S)	3 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) OR	3 credits
		MATH 171 Calc I for Life Sciences (LAC Area 2) (F,S)	4 credits
YEAR 2- FALL (14 credits)		YEAR 2-SPRING (15-16 credits)	
BIO 210 Cell Biology (F, S)	3 credits	BIO 220 Genetics (F,S)	4 credits
CHEM 331/331L Organic Chemistry I (F)	4/1 credits	CHEM 332/332L Organic Chemistry II (S)	4/1credits
STAT 150 Intro to Stat Analysis (LAC Area 2) (F,S)	3 credits	BIO 300+ Upper Division Elective in Major ³	3 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) OR	3 credits
		MATH 171 Calc I for Life Sciences (LAC Area 2) (F,S)	4 credits
YEAR 3- FALL (16 credits)		YEAR 3- SPRING (15-16 credits)	
BIO 300+ Upper Division Elective in Major ³	4 credits	BIO 351 Microbiology (S)	4 credits
PHYS 220 General Physics I ² (LAC Area 6) (F)	5 credits	PHYS 221 General Physics II ² (S)	5 credits
*University Wide Electives	4 credits	BIO 300+ Upper Division Elective in Major ³	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 (16 credits)		YEAR 4- SPRING (12 credits)	
BIO 300+ Upper Division Elective in Major ³	3 credits	BIO 450 Cell Physiology (F,S)	3 credits
Liberal Arts Core ¹ (Areas 3, 4, 5, 7, or 8)	6 credits	BIO 442 Molecular and Cellular Laboratory (F,S)	2 credits
*University Elective	3 credits	BIO 465 Evolution (S, Su)	3 credits
BIO 360 Ecology (F, Su)	4 credits	BIO 300+ Upper Division Elective in Major ³	3 credits
		Capstone Professional Experience ⁵	1 credit
		School of Biological Sciences Exit Exam ⁶	

(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

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

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

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 ¹Liberal 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 ²Either 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 ³Elective Major Courses- Must take 16 credits from BIO courses level 300 or higher.
 - 4 ⁴Either 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.
 - 5 ⁵Capstone Professional Experience requirement can be met by completing a minimum of 1 credit hour from the following course options: BIO 422, BIO 492, 493 or BIO 494.
 - 6 ⁶All 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.**
 - 7 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.
 - 8 Students receiving "D" or "F" in BIO courses taken to meet their major requirements must repeat the courses.
 - 9 Some Upper Division Biology courses are offered every other year. Check with your advisor to find out when they are offered.
 - 10 Remember to get a graduation check in Carter Hall (Room 3002) after 90 semester hours.
 - 11 A maximum of 3 credits total of BIO 422, 492, 493, 494, 495, 585, and 592 can count toward the Biological Advanced study category.
- * **Students who will be taking the MCAT should take both PSY 120 Principles of Psychology and SOC 100 Principles of Sociology. One of these courses can be used to fulfill the LAC 5c requirement, but the other will be considered a university elective.**
- * **It is recommended that students who are planning to apply to medical school take CHEM 381 Principles of Biochemistry as this is now becoming a required course for many medical schools.**

Minimum entrance requirements for University of Colorado Medical School (as of 6/17)

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

- 8 semester hours – human biology (with lab)
- 8 semester hours – general chemistry (with lab)
- 8 semester hours – organic chemistry (with lab)
- 8 semester hours – general physics (with lab)
- 6 semester hours – College level mathematics (algebra and above)
- 6 semester hours – English literature/composition