DEGREE WORKSHEET FOR:



BS Biological Sciences: Pre-Health and Biomedical Sciences Emphasis

2018-2019 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) CHEM 111/111L Principles of Chemistry I | 4 credits | CHEM 112/112L Principles of Chemistry II (F,S) | 4/1credits |
| (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, Su) | 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 (15-16 credits) | | YEAR 3- SPRING (15-16 credits) | |
| | | BIO 351 Microbiology (F,S) or *University Wide | |
| BIO 300+ Upper Division Elective in Major ³ | 3 credits | Electives | 4 credits |
| PHYS 220 Intro Physics I ² (LAC Area 6) (F) BIO 351 Microbiology (F,S) OR | 5 credits | PHYS 221 Intro 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 350 Human Physiology OR | |
| BIO 552 ⁴ (F) | 3-4 credits | BIO 553 ⁴ (S) | 3-4 credits |
| YEAR 4- FALL (15-16 credits) | | YEAR 4- SPRING (12-13 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 |
| w., | o !!! | BIO 360 Ecology (F, S, Su) OR | 0.4 11: |
| *University Elective BIO 360 Ecology (F, S, Su) OR | 3 credits | BIO 465 Evolution (F,S, Su) | 3-4 credits |
| BIO 465 Evolution (F,S, Su) | 3-4 credits | BIO 300+ Upper Division Elective in Major ³ | 3 credits |
| • • • • | | Capstone Professional Experience ⁵ | 1 credit |
| | | School of Biological Sciences Exit Exam ⁶ | |
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(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.

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

Contact Information – School of Biological Sciences

Ross Hall Room 2480, (970) 351-2921

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

This worksheet is a <u>recommended schedule</u> 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 15 credits from BIO courses level 300 or higher.
- 4 ⁴Either BIO 341 Human Anatomy and BIO 350 Human Physiology or BIO 552 and BIO 553 are required. If BIO 552 & 553 are completed for the Anatomy & Physiology requirement, the number of Elective Major credits will be increased by 2.
- 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 6/18) 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