

COM Biomed Biomedical Sciences

Under Review | Fall 2024

Proposal Information

Status Active	Workflow Status In Progress Faculty Senate, Faculty Senate Waiting for Approval Faculty Senate Approval Rick Holmes Nancy Middlebrook Changes <ul style="list-style-type: none">Concentration RequirementsProposed Effective Term and YearSponsoring faculty/staff memberSponsoring faculty/staff emailConcentration Justification Show All ▼	expand ▲
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Proposal Information

Proposed	Proposed
Sponsoring faculty/staff member ⓘ	Sponsoring faculty/staff email
Karen McGillvray	karenmc@unm.edu
Existing	Existing
Sponsoring faculty/staff member ⓘ	Sponsoring faculty/staff email
Sushilla Knottenbelt	sknotten@unm.edu
College	Department
College of Arts & Sciences	Interdisciplinary: Arts Sciences
	Campus
	Main Campus

Effective Term and Year

Proposed
Proposed Effective Term and Year
Fall 2024

Existing
Proposed Effective Term and Year
Fall 2023

Justification

Proposed

Concentration Justification

The Pre-Medical Science Core edits proposed under the Health, Medicine and Human Values (HMHV) program, referenced as associated program forms, but repeating here as well to explain concentration change proposals. The PMSC changes are due to the new Biology major curriculum effective Fall 2023. In 2005, Biology 303/303L and 304/304L were pre-requisite courses to almost all upper division Biology courses. The HMHV major concentration requirements are interdisciplinary yet require additional science courses so the Program negotiated with Biology department leadership to waive Biology 303/303L and require only Biology 304/304L as pre-requisite. With the recent change in the Biology curriculum and pre-requisites, we are (1) adding Biology 2103L, (2) allowing Biology 2110C (for AP, IB and transfer credit) or Biology 301C, (3) allowing Biology 2410C or Biology 302C, and (4) replacing Biology 304/304L with Biology 404: Medical Physiology for Options I, II and III.

Option III: HMHV: Biomedical Sciences concentration requires an extended Pre-Medical Science Core. Following the above PMSC changes due to Biology curriculum changes, we also are replacing Biology 303/303L with a choice of completing one of the following courses: Biology 300C, 310C, 416L, 445, 456 or 447.

Existing

Concentration Justification

Pre-Medical Science core -to- Pre-Medical Science Core (Core capitalized "C")

Associated Forms

Select any associated course forms that exist

Proposed

Select any associated program forms that exist

BA Hlth Med Hum Val

Existing

Select any associated program forms that exist

Program Information

Degree Name

BA Hlth Med Hum Val - Bachelor of Arts in Health, Medicine and Human Values

Degree Type

Bachelor of Arts

Program Type

Undergraduate

Program Description

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Degree Hours

120-124

Minimum Major Hours

33

Degree Requirements

- Complete all of the following
 - Health, Medicine and Human Values Seminars
 - Complete the following:
 - HMMHV1110 - Social Contours of Health (3)
 - HMMHV2110 - Literature, Fine Arts, and Medicine (3)
 - HMMHV301 - Health Economics, Politics, and Policy (3)
 - HMMHV310 - Health and Cultural Diversity (3)
 - HMMHV401 - Ethics, Medicine, and Health (3)
 - Community Health Practica
 - Earn at least 2 credits from the following:
 - HMMHV398 - Community Service-Public Health Workshop (1 - 3)
 - Complete the following:
 - HMMHV350 - Community Health Practicum I (3)
 - HMMHV450 - Community Health Practicum II (3)
 - Pre-Medical Science Core
 - Complete the following:
 - MATH1350 - Introduction to Statistics (3)
 - MATH1430 - Applications of Calculus I (3)
 - BIOL2110C - Principles of Biology: Cellular and Molecular Lecture and Laboratory (4)
 - BIOL2410C - Principles of Biology: Genetics Lecture and Laboratory (4)
 - BIOL304C - Physiological Diversity and Function in Plants and Animals (4)
 - BIOL304L - Plant and Animal Form and Function Laboratory (1)
 - CHEM1215 - General Chemistry I for STEM Majors (3)
 - CHEM1215L - General Chemistry I for STEM Majors Laboratory (1)
 - CHEM1225 - General Chemistry II for STEM Majors (3)
 - CHEM1225L - General Chemistry II for STEM Majors Laboratory (1)
 - CHEM301 - Organic Chemistry (3)
 - CHEM303L - Organic Chemistry Laboratory (1)
 - CHEM302 - Organic Chemistry (3)
 - CHEM304L - Organic Chemistry Laboratory (1)
 - PHYS1230 - Algebra-Based Physics I (3)
 - PHYS1230L - Algebra-Based Physics I Laboratory (1)
 - PHYS1240 - Algebra-Based Physics II (3)
 - PHYS1240L - Algebra-Based Physics II Laboratory (1)
 - BIOC423 - Introductory Biochemistry (3)
 - Completed between 18 and 31 credits from the following types of courses:

In addition to the program-specific requirements outlined here, all undergraduate students are required to fulfill UNM's General Education Program requirements. In some instances, courses included in an undergraduate degree program's requirement may also fulfill a General Education requirement. Please review the General Education Program in this Catalog for General Education information.
 - Earn at least 33 credits from the following types of courses:

Students within the College of Arts and Sciences must also complete 1) a major and a minor; or 2) two majors; or 3) one of the special curricula of the College that requires no minor. Students elect one concentration (Option II or III) from the list below or an Arts and Sciences major (Option I).

Grand Total Credits: 120 - 133

Concentration Information

Concentration Title

Biomedical Sciences

Program Level

Undergraduate

Concentration Requirements

- Complete all of the following
 - Complete the following:
 - ~~MATH1440 - Applications of Calculus II (3)~~
 - ~~BIOL303 - Ecology and Evolution (3)~~
 - ~~BIOL303L - Ecology and Evolution Laboratory (1)~~
 - ~~BIOL2210 - Human Anatomy and Physiology I (3)~~
 - ~~BIOL2210L - Human Anatomy and Physiology I Laboratory (1)~~
 - ~~BIOL2225 - Human Anatomy and Physiology II (3)~~
 - ~~BIOL2225L - Human Anatomy and Physiology II Laboratory (1)~~
 - ~~BIOL2305 - Microbiology for Health Sciences (4)~~
 - **The Biomedical Sciences Concentration extends Supportive coursework designated as Pre-Medical Science Core to include the following:**
 - Complete all of the following
 - Complete the following:
 - **MATH1440 - Applications of Calculus II (3)**
 - **BIOL2210 - Human Anatomy and Physiology I (3)**
 - **BIOL2210L - Human Anatomy and Physiology I Laboratory (1)**
 - **BIOL2225 - Human Anatomy and Physiology II (3)**
 - **BIOL2225L - Human Anatomy and Physiology II Laboratory (1)**
 - Earn at least 4 credits from the following:
 - **BIOL2305 - Microbiology for Health Sciences (4)**
 - **BIOL351 - General Microbiology (3)**
 - **BIOL352L - General Microbiology Laboratory (1)**
 - Earn at least 3 credits from the following:
 - **BIOL300C - Evolution (4)**
 - **BIOL310C - Principles of Ecology (4)**
 - **BIOL416L - Histology (4)**
 - **BIOL445 - Biology of Toxins (3)**
 - **BIOL456 - Immunology (3)**
 - **BIOL447 - Pharmacology: Mechanisms of Drug Action (3)**
 - Earn at least 18 credits from the following types of courses:

The Biomedical Sciences concentration requires an additional 18 credit hours of coursework in 300- to 400-level upper-division courses distributed across College of Arts and Sciences courses.

Grand Total Credits: 36

Concentration Description

Option III: Health, Medicine and Human Values Major: Biomedical Sciences Concentration (B.A.)

This option emphasizes intensive study in mathematics and in the physical and natural sciences. Students in Option III must complete the Health, Medicine and Human Values seminars, the Community Health Practica, a 45 credit hour Pre-Medical Science Core, 19 credit hours of distributed coursework, and 18 additional credit hours of upper-division electives.