Master of Science in Health Sciences

The intent of the one-year MS in Health Sciences program is to enhance students’ educational foundation that can be applied to any of several career paths in the health care field. The program prepares students for matriculation into health care-related professional schools.

For those students applying to health professional school, the MS in Health Sciences can be completed during the application ‘glide’ year.

To be eligible to enter directly into the one year MS in Health Sciences program students should have a substantial foundation in the basic sciences or a health professional school or a health professional school.

Coordinator:
Craig Ogilvie, Dean of the Graduate School
Email: Gradschool@montana.edu
Homepage for MSC Health Sciences (https://www.montana.edu/hpa/graduate/)

How to Apply
1. An online application (https://www.applyweb.com/msug/) for the MS in Health Sciences.
2. Applications are accepted Oct 1–March 31. Applications are reviewed throughout the cycle by the admissions committee and decisions are made and communicated to the applicant as quickly as possible.
3. Pre-requisites include a year each of general chemistry, organic/ biochemistry, biology, and physics. A year of math to include one semester of statistics is also required.

Program Specifics
- Available to students is a clinical observation course (HMED 540 Clinical Practicum) and a health-care focused, graduate-level journal club (HMED 594 Seminar).
- Students will choose an emphasis among Molecular Medical, Community Health, International, or Health and Medicine.
- Students will complete a scholarly project and present in a public forum and provide a written report (HMED 575 Professional Paper and Project).
- Students are encouraged to participate in a semester-long application preparation process (Prep2Apply) for health professional school, if appropriate.
- Students who successfully complete program will receive their degree during the spring graduation ceremony.

Recommended Courses:

**Molecular Medicine**
- BCH 441: Biochemistry of Macromolecules
- BCH 442: Metabolic Regulation
- BCH 444R: Biochemistry & Molecular Biology Methods
- BCH 524: Mass Spectrometry
- BCH 543: Proteins
- BIOB 410: Immunology
- BIOB 425: Adv Cell & Molecular Biology
- BIOB 524: Ethical Practice of Science
- BIOH 405: Hematology
- BIOH 422: Genes and Cancer
- BIOH 511: Advanced Human Anatomy
- BIOH 445: Introduction to Pharmacology
- BIOH 465R: Gene Expression Lab: From Genes to Proteins to Cells
- BIOH 565: Gene Expression Lab: From Genes to Proteins to Cells
- NEUR 425: Sensory Neurophysiology
- NEUR 435: Cognitive Neuroscience
- NEUR 455: Molecular Medicine
- BIOM 400: Medical Microbiology
- BIOM 425: Toxicology: Science of Poisons
- or MB 527: Toxicology
- BIOM 431: Medical Bacteriology
- BIOM 441: Eukaryotic Pathogens
- BIOO 412: Animal Physiology
- EMEC 424: Cellular Mechanotransduction
- HSTR 417: Early Modern Science
- HSTR 419: Modern Science
- IMID 501: Exper Immunology/Pathology
- IMID 505: Gene Regulation in Human Development, Disease, and Immunity
- MB 505: Host-Associated Microbiomes
- MB 520: Microbial Physiology
- MB 525: Advanced Immunology
- MB 528: Advanced Genetics
- MB 530: Virology
- BIOH 509: Advanced Human Torso Anatomy
- HMED 575: Professional Paper and Project
- HMED 540: Clinical Practicum
- HMED 594: Seminar
- BMGT 469: Community Entrepreneurship & Nonprofit Management
- CHTH 405: Caregiving & Aging Families
- CHTH 430: Mental Health & Social Issues in Aging
- CHTH 502: Theories and Models in Health
- EIND 506: Healthcare Delivery Systems
- or NRSG 608: Design H C Delivery Systems
- EIND 511: Advanced Human Factors
- EIND 513: Human Factors in Complex Systems
- EIND 514: Occupational Biomechanics
- HADM 445: Managing Healthcare Organizations
- HTH 455: The Ethic of Care
- NRSG 418: Hlth Policy/Hlth Care Econ Cln
- NRSG 489: Research & Statistics to Support Evidence Based Practice
- NRSG 601: Advanced Health Assessment
- NRSG 604: Evidence Based Practice I
- NRSG 612: Ethics, Law, and Policy for Advocacy in Healthcare
- NRSG 613: Finance & Budget H C Systems
- NUTR 401: Nutrition Assessment/Counsel
- NUTR 425: Medical Nutrition Therapy I
- NUTR 426: Medical Nutrition Therapy II
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<td>Government Leadership &amp; Ethics</td>
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<td>Indigenous Philosophies/Sacred Ecologies</td>
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