

# MS IN BIOMEDICINE AND MA IN HEALTH CARE MANAGEMENT DUAL DEGREE

Our Master of Science in Biomedicine and Master of Arts in Health Care Management (HCM) dual degree program uniquely challenges students to take courses broadly from several disciplines. Not only will you take courses to prepare you for a fast-paced and ever-evolving health care landscape, but you will also be introduced to concepts around infectious diseases, bioethics, and health care management in a cross-cultural setting. A Master's in Health Care Management from EMU provides students with the relevant business skills for effective decision making and ethical leadership to improve the quality of health care in hospitals, insurance and managed care companies, pharmaceuticals, public health organizations, biotech firms, and a variety of health care settings.

## Admission Requirements

- Baccalaureate degree from an accredited institution with a minimal undergraduate grade point average of 2.50
- MCAT or GRE or equivalent entrance exam
- Prerequisite coursework (8 courses, 32 hours total):
  - Two general biology courses with laboratories (8 SH)
  - Two general chemistry courses with laboratories (8 SH)
  - Two organic chemistry courses with laboratories (8 SH)
  - Two physics courses with laboratories (8 SH)

## Course Requirements for the Biomedicine/HCM Dual Degree

**Semester Hours: Total of 72**

### Dual Biomedicine/HCM Core Courses (24 SH)

- BMC 598 Biomedicine Practicum (1-2 SH)
- BMC 610 Interdisciplinary Seminar I (2 SH)
- BMC 611 Interdisciplinary Seminar II (2 SH)
- BMC 613 Research Design & Statistics (2 SH)
- BMC 623 Research in Biomedicine (3 SH)
- BMC 670 Health Care Internship (3 SH)
- BMX 603 Cross Cultural Health Care (3 SH)
- BMX 611 Biomedicine Faith & Ethics (2 SH)
- one Natural Science course (3-4 SH)
- one Social Science course (3-4 SH)

### Natural Sciences (18-19 SH)

Select from the following:

- BMC 517 Developmental and Stem Cell Biology (4 SH)
- BMC 612 Advanced Human Gross and Microscopic Anatomy (4 SH)
- BMC 562 Advanced Human Physiology (4 SH)
- BMC 561 Biochemistry (3 SH)
- BMC 552 Advanced Cell Biology (3 SH)
- BMS 561 Immunology (3 SH)
- BMC 563 Molecular Genetics (3 SH)
- BMS 562 Neurobiology
- BMS 570 Medical Microbiology (3 SH)
- BMS 585 Infectious Diseases (3 SH) (summer and online)
- BMS 540 Drugs: Discovery, Design, Action (2 SH) (online)

### **Biomedicine Electives (5-6 SH)\***

Offered with adequate enrollment. Select from the following:

- BMS 530 MCAT Preparation Course (3 SH)
- BMS 525 Medical Terminology
- BMS 531 Environmental Chemistry
- BMS 551 Conservation Biology
- BMS 552 Environmental Toxicology
- BMS 556 Entomology
- BMS 557 Ecology & Field Biology
- BMS 571 Abnormal Psychology (3 SH)
- BMS 573 Theories of Personality
- BMS 574 Neuropsychology
- BMS 579 Analytical Chemistry I
- BMS 580 Analytical Chemistry II
- BMS 582 Thermodynamics
- BMS 583 Quantum Mechanics

\* An elective course can be taken in [any other master's program at EMU](#)

### **Required Health Care Management Courses (18 SH)**

- OLS 510 Leadership & Management for the Common Good OR OLS 515 Introduction to Leadership Studies (3 SH)
- OLS 530 Organizational Behavior (3 SH)
- OLS 540 Managerial Finance and Accounting I (3 SH)
- NURS 515 The Health Care Delivery System (3 SH)
- NURS 516 Application of Legal & Ethical Principles to Health Care (3 SH)
- NURS 626 Managing in a Complex Health Care Environment (3 SH)

### **Health Care Electives (6 SH)**

Select from the following:

- MBA 555 Human Resource Management (3 SH)
- MBA 625 Strategic Marketing Management
- MBA 670 Project Management and Intrapreneurship (3 SH)
- NURS 503/PAX 503 Practice Skills for Conflict Transformation (3 SH)
- NURS 702 Health Information Technology (3 SH)
- OLS 560 Leadership Seminar
- OLS 665 Project Management and Grant Writing (3 SH)