

CERTIFICATE REQUIREMENTS - BIOMEDICINE GRADUATE STUDIES

The majority of credits toward all certificates must be earned through courses offered by EMU.

BIOMEDICINE CERTIFICATE

Semester Hours: 24

Some students want to become more competitive applicants for professional health school, and only need a one-year program to enhance their application. Our Biomedicine Certificate allows you to pick and choose which graduate-level natural science courses suit your academic goals the best. Our curriculum will set your application apart with our built-in cross-cultural experience, practicum shadowing, and interdisciplinary course offerings.

Biomedicine Courses (22-25 SH)

- BMC 598 Biomedicine Practicum - 1
- BMC 610 Interdisciplinary Seminar I - 2
- BMX 603 Cross Cultural Health Care - 3
- Select 16-19 SH from the following:
 - BMC 552 Cell Biology - 3 (Fall 2022)
 - BMC 561 Biochemistry Foundations - 3
 - BMC 562 Human Physiology - 4
 - BMC 612 Human Gross & Microscopic Anatomy - 4
 - BMS 501 Biomedical Organic Chemistry I - 4
 - BMS 502 Biomedical Organic Chemistry II - 4
 - BMS 517 Developmental and Stem Cell Biology - 4
 - BMS 540 Drugs: Discovery, Design & Action - 2
 - BMS 561 Immunology - 3
 - BMS 562 Neurobiology - 3 (Spring 2021)
 - BMS 563 Molecular Genetics - 3 (Spring 2022)
 - BMS 570 Medical Microbiology - 3 (Spring 2021)
 - BMS 572 Cognitive Psychology - 3
 - BMS 585 Infectious Diseases - 3
 - BMS 595 Bioinformatics - 2 (Spring 2023)

Additional [natural science course options](#) are available.

Electives (0-3 SH)

Select from the following courses:

- BMS 530 MCAT Preparation OR BMS 531 DAT Preparation Course - 3
- One course from any other master's program at EMU

GAP YEAR CERTIFICATE

Semester Hours: 21-28

Gap Year Certificate students take courses at EMU's Harrisonburg campus in the fall and EMU's Washington Community Scholars Center in Washington D.C. in the spring and complete cross-cultural travel in the summer.

Fall Courses, Harrisonburg campus (9-14 SH)

Select from the following:

- BMC 552 Cell Biology (Fall 2022) - 3
- BMC 561 Biochemistry Foundations - 3
- BMC 612 Human Gross and Microscopic Anatomy - 4
- BMS 517 Developmental and Stem Cell Biology - 4
- BMS 561 Immunology - 3
- BMS 571 Abnormal Psychology - 3
- One course from any other master's program at EMU

Additional [natural science course options](#) are available.

Spring Courses, Washington, D.C. campus (9-11 SH)

- BMS 599 Internship - 6-9
- BMS 654 Internship Theory and Practice - 1
- BMS 655 Servant Leadership - 2

Summer Course, off campus (3 SH)

- BMX 603 Cross Cultural Health Care - 3