Michigan Technological University Minor in Pre-Health Professions

Program Code BLPH, Academic Year 2024-25 Department of Biological Sciences Total Credits Required: 18

Required Courses: 9 credits

- BL 1590 First-Year Experience in Health Professions (1) Permission of instructor required
- BL 2010 Anatomy & Physiology I (3) Prereas: none
- BL 2011 Anatomy & Physiology I (1) Lab Prereqs: BL2010 (C)
- BL 3006 Graduate Health Program Application Preparation (1) Permission of instructor required
- PSY 2000 Introduction to Psychology (3) Prereqs: none
 or SS 2700 Introduction to Sociology (3) Prereqs: none

Biomedical Science Elective Course: 6 credits

- BL 3020 Biochemistry I (3) Prereqs: (BL 1020 or BL 1040 or BE 2400) or (BL 1200 and BL 1210) or (BL 1400 and BL 1410) and (CH 2410 or CH 2420)
- BL 3025 Biochem for Health Professions (3) Preregs: (BL1200 or BL1400) and (CH2410 or CH2430)
- BE 4200 Cellular and Molecular Biology II (3) Prereqs: BE2400
- BE 4230 Stem Cell and Tissue Engineering (3) Preregs: BE2400 and BE3350 and BE3800
- BE 4330 Biomimetic Materials (3) Preregs: BE3350 and BE3800
- BE 4510 Cardiovascular Engineering (3) Prereqs: BL2020 and BE2400
- BL 3012 Essential Cell Biology (3) Preregs: (BL1200 and BL1210) or (BL1400 and BL1410)
- BL 3044 Advanced Human Physiology (3) Prereq: BL2020
- BL 3210 General Microbiology (3) Preregs: (BL1200 and BL1210) or (Bl1400 and BL1410)
- BL 3640 General immunology (3) Prereqs: (BL1200 and BL1210) or (BL1400 and BL1410) or BL2020 or BE2400
- BL 4020 Biochemistry II (3) Preregs: BL 3020
- BL 4044 Human Pathophysiology (3) Preregs: BL2010 and BL2020
- BL 4380 Cardiopulmonary Physiology (3) Preregs: BL2020
- CH 3540 Biophysical Chemistry (3) Prereqs: (BL1200 and BL1210) or (BL1400 and BL1410) and CH1122 or (CH1160 and CH1161) and MA2160 and PH2200
- CH 4110 Pharmaceutical Chemistry: Drug Action (3) Prereqs: BL3020 or CH4710
- CH 4710 Biomolecular Chemistry I (3) Preregs: CH2420
- KIP 3600 Motor Development (3) Preregs: (EH1500 or KIP1500) and BL2020
- KIP 4100 Exercise Physiology (3) Prereqs: BL2020 and BL2021 and KIP 4110 Exercise Physiology Lab (1) Prereqs: KIP4100 (C)
- KIP 4200 Biomechanics of Human Movement (3) *Prereqs: BL2020 and KIP 1500 and PH 1110 and PH1111*and KIP 4210 Biomechanics of Human Movement lab (1) *Prereqs: BL2020 and KIP 1500 and PH 1110 and PH1111*

Ethics, Culture, and Communication Elective: 3 credits

- BL 3970 Current Health Issues (3) Preregs: UN1015 and UN1025
- HU 3015 Advanced Composition (3) Preregs: UN1015 and UN1025
- HU 3261 Topics in Communicating Across Cultures (3) Preregs: UN1015 and UN1025
- HU 3400 Topics in Diversity Studies (3) Preregs: UN1015 and(UN1025)
- HU 3401 Gender and Culture (3) Preregs: UN1015 and UN1025
- HU 3410 Introduction to Diversity Studies in the U.S. Preregs: UN1015 and UN1025
- HU 3711 Biomedical Ethics (3) Prereqs: UN1015 and UN1025
- HU 3820 Interpersonal Communication (3) Preregs: UN1015 and UN1025
- HU 3850 Cultural Studies (3) Preregs: UN1015 and UN1025
- HU 4710 Sports Medicine and Ethics (3) Preregs: UN1015 and UN1025
- PSY 3720 Social Psychology (3) Prereqs: PSY2000 and UN1015 and UN1025
- SS 3910 Histories and Cultures (3) Preregs: UN1015 and UN1025
- SS 3961 Cross-Cultural Immersion Prep (3) Preregs: UN1015 and UN1025