

EPC approved curriculum for new Dept of Health Sciences

CORE CURRICULUM (required of all majors) (24 credits)

- Intro to Human Body (HSCI 200) – 3 credits
- Foundations of Epidemiology (HSCI 270) – 3 credits
- Introduction to Public Health (HSCI 280) – 3 credits
- Human Physiology (HSCI 304) – 3 credits
- Science of Nutrition (HSCI 350) – 3 credits
- Nutrition in Health and Disease (HSCI 354) – 3 credits
- Statistics and Evaluation (HSCI 394) – 3 credits
- COLL 400 – 3 credits:

Health Ethics (HSCI 393), or Neurophysiology of Aging (HSCI 401), or Public Health Research Issues (HSCI 406, PH concentrators must take this or HSCI 498), or Research in Health Sciences (HSCI 480/481[fall, spring], Honors in Health Sciences (HSCI 495/496 [fall, spring]), or Internship in Health Sciences (HSCI 498), or Ethics (PHIL 303), or Biomedical Ethics (PHIL 315)

Allied Health Concentration (39 credits)

Common Required Core Curriculum, 24 credits

Required courses, 9 credits

- Human Anatomy (HSCI 303) – 3 credits
- Dissection Human Anatomy Laboratory (HSCI 314) 1 credit *OR*
- Human Anatomy Laboratory (HSCI 315) 1 credit
- Exercise Physiology (HSCI 442) – 4 credits
- Human Physiology Laboratory (HSCI 305) – 1 credit

Elective courses, 6 credits

- Microbes in Human Disease (HSCI 310) – 3 credits
- Physiology of Aging (HSCI 360) – 3 credits
- Cardiovascular Physiology (HSCI 450) – 3 credits
- Cellular Basis of Neuromuscular Physiology (HSCI 485) – 3 credits
- Health-related Exercise Prescription (HSCI 295) – 3 credits
- Biomechanics of Human Movement (HSCI 308) – 3 credits
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Public Health Concentration (36 credits)

Common Required Core Curriculum, 24 credits

Four (4) Additional Courses in the Foundational Areas of Public Health from Lists A and B (No more than one (1) course from list B): 12-13 credits

List A (3 or 4 courses):

- Health Policy (HSCI 323) – 3 credits
- Environmental Issues in Public Health (HSCI 325) – 3 credits
- The Social and Behavioral Sciences in Health (HSCI 300) – 3 credits
- Global Health (HSCI 290) – 3 credits

List B (0 or 1 courses):

- Methods and Analysis in International Community Health and Development (HSCI 369) – 3 credits
- Maternal, Neonatal, and Child Health (HSCI 405) – 3 credits
- Public Health: Health Equity, Sustainability, and Well-Being in a Global Age (HSCI 415) – 3 credits
- Physical Activity and Public Health (HSCI 100) – 3 credits

One Public Health Capstone: 3 credits

- Public Health Research Issues (HSCI 406) – 3 credits
- Internship (HSCI 498) – 3 credits

Pre-med Concentration (39 credits)

Common Required Core Curriculum, 24 credits

Required courses, 15 credits

- Human Anatomy (HSCI 303) - 3 credits
- Human Anatomy Laboratory (HSCI 315) – 1 credit *OR*
- Dissection Human Anatomy Laboratory (HSCI 314) – 1 credit
- Human Physiology Laboratory (HSCI 305) – 1 credit
- Health Ethics (HSCI 393) – 3 credits
- Exercise Physiology (HSCI 442) – 4 credits
- Cardiovascular Physiology (HSCI 450) – 3 credits

• In addition, the following courses below are recommended for the Kinesiology & Health Sciences Premed concentration. All Chemistry courses must be taken with the laboratory courses. It is essential for all students considering health professions to consult with Dr. Bev Sher, Department of Biology (btsher@wm.edu) for academic guidance.

- BIOL 204 - Introduction to Organisms, Ecology, Evolution (3)
- BIOL 204L – Introduction to Biology Laboratory (Spring) (1)
- BIOL 203 - Introduction to Molecules, Cells, Development (3)
- BIOL 203L - Introduction to Biology Laboratory (Fall) (1)
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- PHYS 101 - General Physics I (3)

- PHYS 101L - General Physics I Laboratory (1)
- PHYS 102 - General Physics II (3)
- PHYS 102L - General Physics II Laboratory (1)
- or
- PHYS 107 - Physics for the Life Sciences I (3)
- PHYS 107L - Physics for the Life Sciences I Lab (1)
- PHYS 108 - Physics for the Life Sciences II (3)
- PHYS 108L - Physics for the Life Sciences II Lab (1)
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- CHEM 103 - General Chemistry I (3)
- CHEM 103L - General Chemistry Laboratory I (1)
- CHEM 206 - Organic Chemistry I (3)
- CHEM 206L - Organic Chemistry Laboratory I (1)
- CHEM 207 - Organic Chemistry II for Life Sciences (3)
- CHEM 253 - Organic Chemistry Laboratory II (1)
- CHEM 208 – General Chemistry II (3)
- CHEM 254 - General Chemistry Laboratory II (1)
- CHEM 414 – Biochemistry (can also take as cross-listed BIOL 414)
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- PSYCH 202 – Introduction to Psychology as a Social Science (3)
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- SOCL 250 – Principles of Sociology (3)
- or
- SOCL 310 – Wealth, Power and Inequality (3)

Courses to satisfy Health Sciences major without concentration (33 credits)

Common Required Core Curriculum, 24 credits

BA degree (take 9 credits from courses below)

- Intro to Health Sciences (HSCI 204)
- Issues in Health (HSCI 320)
- Health Policy (HSCI 323)
- Health Ethics (HSCI 393)
- Nutrition Across the Lifespan (HSCI 460-02)
- Public Health & Physical Activity (COLL 100)
- Intro to Global Health (HSCI 290)
- Social & Behavioral Sciences in Health (HSCI 300)
- Environmental Issues in Health (HSCI 325)
- Maternal, Neonatal, and Child Health (HSCI 405)
- Philosophy in Kinesiology & Health Sciences (HSCI 493)

BS degree (take 9 credits from the courses listed below)

- Exercise Prescription (HSCI 295)
- Biomechanics (HSCI 308)
- Human Anatomy (HSCI 303)
- Motor Learning (HSCI 322)
- Exercise Physiology (HSCI 442)
- Cardiovascular Physiology (HSCI 450)
- Neuromuscular Physiology (HSCI 485)
- Microbes in Human Disease (HSCI 310)
- Motor Development (HSCI 340)
- Pharmacological Physiology (HSCI 460)
- Nutrition and the Brain (HSCI 352)
- Physiology of Aging (HSCI 360)
- Physiology of Obesity (HSCI 455)
- Neurophysiology of Aging (HSCI 401)
- Motor Control (HSCI 422)
- Introduction to Clinical Practice (HSCI 380)

Major Computing Requirement

- HSCI 308 - Biomechanics of Human Movement (3) or
- HSCI 352 - Nutrition and the Brain (3) or
- HSCI 394 - Statistics and Evaluation (3)

Major Writing Requirement

The major writing requirement in Kinesiology & Health Sciences may be satisfied by obtaining a C- or better in one of the following courses:

- HSCI 393 - Health Ethics (3)
- HSCI 455 - Physiology of Obesity (3)
- HSCI 470 - Independent Study in Kinesiology & Health Sciences (1-3)
- HSCI 471 - Independent Study in Kinesiology & Health Sciences (1-3)
- HSCI 480 - Kinesiology & Health Sciences Research (1-3)
- HSCI 481 - Kinesiology & Health Sciences Research (1-3)
- HSCI 493 - Philosophy in Kinesiology & Health Sciences (3)
- HSCI 495 - Honors (3)
- HSCI 496 - Honors (3)
- HSCI 499 - Internship (3)