Movement Science Cognate Courses

The Movement Science Major requires a minimum of eleven credit hours of cognate elective courses outside of Movement Science, six credit hours of which must be outside of Kinesiology.

These courses may be taken from other units within the School of Kinesiology or outside the School (six credits minimum). The Movement Science department maintains a list of currently approved Movement Science Cognate Elective Courses (see below). If a course does not appear on the list, students need to get approval by completing a Program Petition Form (available online or in the Kinesiology Office of Student Services). Students are encouraged to choose cognate courses that may fulfill graduate or professional school requirements.

Credit hours are listed in parentheses. Courses fulfilling University distribution requirements are indicated by NS, SS, and HU. Students may petition for courses that do not have specific distribution designation.

PLEASE NOTE: This list is subject to change.

Anthropology, Biological
ANTHRBIO 161: Introduction to Biological Anthropology. (4) NS

Anthropology, Cultural
ANTHRRCUL 258: Culture and Medicine (3)
ANTHRRCUL 344: Medical Anthropology (4) SS
ANTHRRCUL 416: Global Health: Anthropological Perspectives(3)

Biochemistry
BIOLCHEM 451/CHEM 451: Introductory Biochemistry Lecture(3)
BIOLCHEM 451/CHEM 451: Introduction to Biochemistry I (4)

Biology
BIOLOGY 101: Biology and Human Affairs (4) NS
BIOLOGY 118: AIDS and Other Health Crises (4) NS
BIOLOGY 207: Microbiology, Combined Lecture & Lab (4) NS
BIOLOGY 208/MCDB 308: Embryology Lecture & Developmental Bio Lab (3/3) NS
BIOLOGY 222: From Message to Mind: An Introduction to Neurobiology (3)
BIOLOGY 225 (325): Principles of Animal Physiology: Lecture (3)
BIOLOGY 226 (326): Animal Physiology Laboratory (2)
BIOLOGY 252: Chordate Anatomy, Combined Lecture & Lab (4)
BIOLOGY 262: Evolutionary Biology & Human Disease, Combined Lecture & Lab (4) NS
BIOLOGY 305/MCDB 306: Genetics Lecture & Genetics Lab (4/3)
BIOLOGY 310: Introductory Biochemistry (4)
BIOLOGY 311: Introductory Biochemistry (4)
BIOLOGY 324 (224): Biology of Cancer (3) NS
BIOLOGY 411: Protein Structure and Function (3)
BIOLOGY/CHEM 415: Introductory Biochemistry Lecture (3)
BIOLOGY 418: Endocrinology (3)
Movement Science Cognate Courses

BIOLOGY 423: Introduction to Research in Cellular and Molecular Neurobiology (3)
BIOLOGY 427: Molecular Biology (4)
BIOLOGY 428: Cell Biology (4)
BIOLOGY 436 (336): Introductory Immunology (3)
BIOLOGY 541 Mammalian Reproductive Endocrinology Lecture (4)

**Biomedical Engineering**
BIOMEDE 295: Biomedical Engineering Seminar (1)
BIOMEDE 417: Electrical Biophysics (4)
BIOMEDE 420: Introduction to Biomechanics (4)
BIOMEDE 456: Biomechanics (3)

**Biophysics**
BIOPHYS 520 (510/610)/CHEM 520: Biophysical Chemistry I (3)

**Chemistry**
CHEM 120: The History and Philosophy of Chemistry (3) NS
CHEM 125/126: General and Inorganic Chemistry Lab I and II (2) NS
CHEM 210: Structure and Reactivity I (4) NS
CHEM 211: Investigations in Chemistry (1) NS
CHEM 215: Structure and Reactivity II (3) NS
CHEM 216: Synthesis and Characterization of Organic Compounds (2) NS
CHEM 230: Physical Chemical Principles and Applications (3) NS
CHEM 260: Chemical Principles (3) NS
CHEM 261: Introduction to Quantum Chemistry (1)
CHEM 302: Inorganic Chemistry: Principles of Structure, Reactivity, and Function (3) NS
CHEM 312: Synthesis and Characterization (2)
CHEM 467/AOSS 467/GEOSCI 465: Biogeochemical Cycles (3)

**Complex Systems**
BIOLOGY 481: Population Dynamics And Ecology (4)
BIOLOGY 499: Dynamic Systems In Population And Community Ecology (3)
MICRBIOL 201: Elementary Microbiology for Health Professional Students (3)
MICRBIOL 350: Introductory Laboratory in Medical Microbiology (1)
PHYSICS 413: Physics of Complexity (3)

**Ecology & Evolutionary Biology**
EEB 341: Parasitology, Combined Lecture & Lab (4) NS

**Electrical Engineering & Computer Science**
EECS 280: Programming and Introductory Data Structures (4)
EECS 284: Introduction to a Programming Language or System (1)
EECS 285: A Programming Language or Computer System (2)
EECS 370: Introduction to Computer Organization (4)
EECS 380: Data Structures and Algorithms (4)
EECS 478: Logic Circuit Synthesis and Optimization (4)
Movement Science Cognate Courses

**Engineering**
ENGR 371: Numerical Methods for Engineers and Scientists (3)

**English Language and Literature**
ENGLISH 415: Interdisciplinary Approaches to Literature: Research and Technology in the Humanities (3)

**History**
HISTORY 284: History of Health and Sickness (3-4) SS
HISTORY 300: Epidemics Throughout History (3)
HISTORY 302: Science, Technology and Defining the Human (3)
HISTORY 346/NRE 356: Environmental History and the Tropical World (3)
HISTORY 355: Health and Illness in African Worlds (4)
HISTORY 397: Human Nature and its Sciences (4)
HISTORY 427(508): Magic, Religion, and Science in Early Modern England (3)

**Industrial & Operations Engineering**
IOE 333: Ergonomics (3)
IOE 334: Ergonomics Lab (1)
IOE 433: Occupational Ergonomics (3)
IOE 474: Simulation (3)

**LS&A Honors**
HONORS 493: Complexity and Emergence

**Mathematics**
MATH 116: Calculus II (4) NS
MATH 214: Linear Algebra and Differential Equations (4) NS
MATH 215: Calculus III (4) NS
MATH 216: Introduction to Differential Equations (4) NS

**Mechanical Engineering**
MECHENG 211: Introduction to Solid Mechanics (4)
MECHENG 240: Introduction to Dynamics and Vibrations (4)
MECHENG 456: Tissue Mechanics (3)

**Medical School**
BIOLCHEM 212: Descriptive Biochemistry (3)
BIOLCHEM 451: Introductory Biochemistry (4)
BIOLCHEM 491: Biochemical Basis of Human Diseases and Pathologies (1)
CHEM 398: Undergraduate Research in Chemistry, Biological Chemistry, Biology, and Biophysics (1-8)
MEDADM 599: Special Topics Dissection Elective Lab (1) NS
Movement Science Cognate Courses

**Molecular, Cellular, and Developmental Biology (MCDB)**
- MCDB 427: Molecular Biology Lecture (4)
- MCDB 428: Cell Biology Lecture (4)
- MCDB 429: Laboratory in Cell and Molecular Biology (3)

**Philosophy**
- PHIL 232: Problems of Philosophy (4; 2 in half-term) HU
- PHIL 340: Mind, Matter, and Machines (4; 2 in the half-term) HU
- PHIL 344: Ethics and Health Care (2-3) HU
- PHIL 356: Issues in Bioethics (4; 3 in the half-term) HU
- PHIL 383: Knowledge and Reality (3; 2 in the half-term) HU
- PHIL 420: Philosophy of Science (3)

**Physical Education**
- PHYSED 373: Issues in Health and Wellness (3)
- PHYSED 475: HIV/AIDS, Other Communicable Diseases, and the Immune System (3)

**Physics**
- PHYSICS 126: General Physics: Electricity and Light (4) NS
- PHYSICS 127: Physics I Lab (1) NS
- PHYSICS 128: Electricity and Light Lab (1) NS
- PHYSICS 140/141: Physics I Lecture & Lab (4/1) NS
- PHYSICS 201: Physics, Truth and Consequences (3)
- PHYSICS 204: Great Books in Physics (4) NS
- PHYSICS 240/241 Physics II Lecture & Lab (4/1) NS
- PHYSICS 401: Intermediate Mechanics (3)

**Physiology**
- PHYSIOL 502: Human Physiology Lecture (4)

**Psychology**
- PSYCH 230: Introduction to Biopsychology (4) NS
- PSYCH 240: Introduction to Cognitive Psychology (4) NS
- PSYCH 250: Introduction to Developmental Psychology (4) SS
- PSYCH 270: Introduction to Psychopathology (4) SS
- PSYCH 280: Introduction to Social Psychology (4) SS
- PSYCH 290: Introduction to the Psychology of Personality (4) SS
- PSYCH 335: Introduction to Animal Behavior (4) NS
- PSYCH 345: Human Neuropsychology (4) NS
- PSYCH 347: Perception (3)
- PSYCH 351: Advanced Laboratory in Developmental Psychology (3)
- PSYCH 355: Cognitive Development (3)
- PSYCH 359: Psychology of Aging (3) SS
- PSYCH 401: Special Problems in Psychology as a Social Science (1-4)
- PSYCH 442: Perception, Science, and Reality (3)
Movement Science Cognate Courses

Residential College
RCNSCI 263/ENVRNSTD 263: Energy and Environment (4) NS
RCNSCI 270: New Biotechnology: Scientific, Social, and Historical Perspectives (4) NS
RCNSCI 415: Science and Politics (4)

Sport Management
SM 434: Sport Ethics (3)
SM 437: Psychological Aspects of Sport & Exercise (3)

Sociology
SOC 475: Introduction to Medical Sociology (3)

University Courses
UC 210: Perspectives on Careers in Medicine and Health Care (4)

Women's Studies
WOMENSTD 220: Perspectives in Women's Health (3) SS
WOMENSTD 400: Women's Reproductive Health (3)
WOMENSTD 485: Gender, Mentoring, and Technology (3)