

HUMAN BIOLOGY MAJOR WITH *EMPHASIS IN HEALTH SCIENCE*

(updated 4/03/20)

Supporting Courses, 41-44 credits minimum

- ☐ BIOLOGY 201 Principles of Biology I 3 cr (F,S)
☐ BIOLOGY 202 Principles of Biol Lab 1 cr (F,S)
☐ CHEM 211 Principles of Chemistry I 4 cr (F,S)
☐ CHEM 212 Principles of Chemistry II 4 cr (F,S)
☐ CHEM 213 Princ of Chemistry I Lab 1 cr (F,S)
☐ CHEM 214 Princ of Chemistry II Lab 1 cr (F,S)
☐ WF 105 Research and Rhetoric 3 cr (F,S)
 (or an ACT English score of 32 or higher)
☐ HUM BIOL 204 Anatomy & Physiology 5cr (F,S)
☐ HUM BIOL 207 Laboratory Safety 1 cr (F,S)
☐ MATH 260 Introductory Statistics 4 cr (F,S)

Select one:

- ☐ MATH 104 Elem Func: Algebra/Trig 4 cr (F,S)
☐ MATH 202 Calc & Analytical Geom I 4 cr (F,S)
☐ MATH 203 Calc & Analytical Geom II 4 cr (F,S)
 Note: Math 202/203 may be required for medical/graduate school admission

Select one:

- ☐ COMM 133 Fundamentals of Public Address
☐ COMM 166 Fundamentals of Interpers Comm
☐ Literature, e.g., ENGLISH 104 Intro to Literature
☐ Non-English language (one year at the college level)

(Supporting courses continued...)

Select one:

- ☐ PHYSICS 103 Fund of Physics I 5 cr (F)
☐ PHYSICS 104 Fund of Physics II 5 cr (S)
 or
☐ PHYSICS 201 Principles of Physics I 5 cr (F)
☐ PHYSICS 202 Principles of Physics II 5 cr (S)

Upper-Level Courses - need 32-33 credits of upper level courses.

Credits come from the combination of the required courses and elective courses. Three upper level laboratory courses* must be taken.

Required, 12 credits:

- ☐ BIOLOGY 302 Princ of Microbiology 4 cr (F,S)
☐ CHEM 302 Organic Chemistry I 3 cr (F)
☐ CHEM 303 Organic Chemistry II 3 cr (S)
☐ CHEM 304 Organic Chemistry Lab I 1 cr (F)
☐ CHEM 305 Organic Chemistry Lab II 1 cr (S)

Select three course options, 9 credits:

- ☐ BIOLOGY 303 Genetics 3 cr (F,S)
 or
☐ HUM BIOL 310 Human Genetics 3 cr (F,S) WE
☐ BIOLOGY 307 Cell Biology 3 cr (F,S)
☐ HUM BIOL 402 Human Physiology 3 cr (F,S)
☐ NUT SCI 300 Human Nutrition 3 cr (F,S)

(Required courses continued...)

Select one course, 3-4 credits:

- ☐ CHEM 311 Analytical Chemistry 4 cr (S)
☐ CHEM 330 Biochemistry 3 cr (F)

Electives: 8 credits

Recommended and/or frequently taken (but not required) electives.

- ☐ HUM BIOL 310 Human Genetics 3 cr (F,S) WE
☐ HUM BIOL 402 Human Physiology 3 cr (F,S)
☐ HUM BIOL 403 Human Phys Lab 1 cr* (S) WE
☐ HUM BIOL 413 Neurobiology 3 cr (V)
☐ HUM BIOL 422 Immunology 3 cr (S) WE
☐ HUM BIOL 423 Immunology Lab 1 cr* (V)
☐ HUM BIOL 495 Research in Human Biol 1-4 cr
☐ HUM BIOL 497 Internship 1-4 cr

- ☐ BIOLOGY 303 Genetics 3 cr (F,S)
☐ BIOLOGY 304 Genetics Laboratory 1 cr* (F) WE
☐ BIOLOGY 340 Comp Anat of Vertebrate 4 cr* (F)
☐ BIOLOGY 402 Advanced Microbio 4 cr* (F) WE

- ☐ CHEM 311 Analytical Chemistry 4 cr (S)
☐ CHEM 330 Biochemistry 3 cr (F)
☐ CHEM 331 Biochemistry Lab 1 cr *(F)

- ☐ NUT SCI 300 Human Nutrition 3 cr (F,S)

- ☐ PSYCH 435 Abnormal Psychology 3 cr (V)

Other courses to be used as electives, and notes on academic plans, can be found on the back of this page. Appropriate substitutions may be made with the approval of a faculty advisor.

F=fall, S=spring, O=odd years, E=even years, V=varies, WE=writing emphasis

*= upper level lab course

Links to current catalogue descriptions can be found at **HUMAN BIOLOGY – PROGRAM – DEGREE REQUIREMENTS (MAJOR)**

GENERAL EDUCATION: ☐ Biol Sci • ☐ Capstone • ☐ Ethnic Studies • ☐ Fine Arts • ☐ First Year Seminar • ☐ Global Culture • ☐ Humanities • ☐ Natural Sci
☐ Quantitative Literacy • ☐ Social Sciences • ☐ Sustainability • ☐ Writ Emph (2 up.level) • ☐ Writing Emph (2 low level) **Key:** ☐ 1-4 cr; ☐ 6 cr

Term _____

Term _____

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Term _____

Human Biology	Biology
☐ HUM BIOL 310 Human Genetics 3 cr (F,S) WE ☐ HUM BIOL 318 Reproductive Biology 3 cr (S) ☐ HUM BIOL 322 Epidemiology (S) ☐ HUM BIOL 324 Biology of Women 3 cr (S) ☐ HUM BIOL 331 Science and Religion 3 cr (V) ☐ HUM BIOL 333 Princ Sports Phys 3 cr (S) ☐ HUM BIOL 341 Human Anatomy Lab 1 cr* (F) ☐ HUM BIOL 344 Epidemiology 3 cr (S) ☐ HUM BIOL 351 Kinesiology 4 cr* (F) ☐ HUM BIOL 360 Exercise Phys 4 cr* (F) WE & HUM BIOL 361 Hum Phys Lab: Exerc-Metab ☐ HUM BIOL 401 Art and Science 1 cr (S) ☐ HUM BIOL 402 Human Physiology 3 cr (F,S) ☐ HUM BIOL 403 Human Phys Lab 1 cr* (S) WE ☐ HUM BIOL 413 Neurobiology 3 cr (F) ☐ HUM BIOL 422 Immunology 3 cr (S) WE ☐ HUM BIOL 423 Immunology Lab 1 cr* (V) ☐ HUM BIOL 426 Cancer Biology 3 cr (F) ☐ HUM BIOL 427 Cancer Biology Lab 1 cr* (V) ☐ HUM BIOL 444 Endocrinology 3 cr (V) WE ☐ HUM BIOL 478 Honors in the Major 3 cr ☐ HUM BIOL 495 Research in Human Biol 1-4 cr ☐ HUM BIOL 497 Internship 1-4 cr ☐ HUM BIOL 498 Independent Study 1-4 cr	☐ BIOLOGY 302 Microbiology 4 cr* (F,S) ☐ BIOLOGY 303 Genetics 3 cr (F,S) ☐ BIOLOGY 304 Genetics Laboratory 1 cr* (F) WE ☐ BIOLOGY 307 Cell Biology 3 cr (F,S) ☐ BIOLOGY 308 Cell Biology Lab 1 cr* (F,S) WE ☐ BIOLOGY 309 Evolutionary Biology (F,S) ☐ BIOLOGY 340 Comparative Anatomy 4 cr* (F) WE ☐ BIOLOGY 345 Animal Behavior 3 cr (SE) ☐ BIOLOGY 346 Comparative Physiology 3 cr (S) ☐ BIOLOGY 402 Advanced Microbiology 4 cr* (F) WE ☐ BIOLOGY 407 (CHEM 407) Molecular Biol 3 cr (SO) ☐ BIOLOGY 408 (CHEM 408) Molec Biol Lab 1 cr* (SO) ☐ BIOLOGY 410 Development Biology 3 cr (SO) WE ☐ BIOLOGY 411 Development Biology Lab 1 cr* (V)
	Chemistry
	☐ CHEM 300 Bio-Organic Chemistry 3 cr (S) ☐ CHEM 301 Bio-Organic Chemistry Lab 1 cr (S) ☐ CHEM 302 Organic Chemistry I 3 cr (FS) ☐ CHEM 303 Organic Chemistry II 3 cr (FS) ☐ CHEM 304 Organic Chem Lab I 1 cr (FS) ☐ CHEM 305 Organic Chem Lab II 1 cr (FS) ☐ CHEM 330 Biochemistry 3 cr (FS) ☐ CHEM 331 Biochemistry Lab 1 cr* (FS)
Nutritional Science	Psychology
☐ NUT SCI 300 Human Nutrition 3 cr (F,S) ☐ NUT SCI 327 Nutritional Biochemistry 4 cr* (F) ☐ NUT SCI 350 Life Cycle Nutrition 3 cr (S) ☐ NUT SCI 427 Adv Nutrition & Metabolism 3 cr (S) ☐ NUT SCI 486 Medical Nutrition Therapy II (S)	Maximum of ONE... ☐ PSYCH2 308 Physiological Psychology 3 cr (S) ☐ PSYCH2 435 Abnormal Psychology 3 cr (F,S) ☐ PSYCH2 450 Health Psychology 3 cr (S)
Environmental Science	Notes – <u>for academic plans filed beginning fall 2017</u> • all emphases can use <u>any</u> course on this list as an upper level elective • all emphases include an “organic chemistry” component • COMM SCI 205 (Social Science stats) is <u>no longer</u> an option as a statistics course for the Nutrition Science emphasis • Nut Sci 302 (Ethn Inf Nut, now Nut Sci 202) no longer counts as an upper level elective • academic plans filed before fall 2017 will follow the “old” curriculum per shown in student’s SIS, BUT advisors may substitute per this page
☐ ENV SCI 339 Scientific Writing F = fall, S = spring O = odd years, E = even years, V = varies, WE = writing emphasis *= upper level lab course	