

HUMAN BIOLOGY MAJOR WITH EMPHASIS IN CYTOTECHNOLOGY

(updated 4/03/20)

Supporting Courses, 41-44 credits

- ☐ 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)
- ☐ BIOL 207 Laboratory Safety 1 cr (F,S)
- ☐ MATH 104 Elem Func: Algebra/Trig 4 cr (F,S)
- ☐ MATH 260 Introductory Statistics 4 cr (F,S)

Select one:

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

Upper-Level Courses - need 47 credits of **upper level courses**. The 47 credits come from the combination of the required courses, the elective courses, and the (32) internship credits.

Required: Select one course from three of the following four areas, 9-10 credits:

Genetics:

- ☐ BIOLOGY 303 Genetics 3 cr (F,S)
- ☐ HUM BIOL 310 Human Genetics 3 cr (F,S) WE

Physiology:

- ☐ HUM BIOL 402 Human Physiology 3 cr (F,S)
- ☐ HUM BIOL 360 Exercise Phys 4 cr (F) WE
& Hum bio 361 Hum Phys Lab: Exerc-Metab

Nutrition:

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

Cell Biology:

- ☐ BIOLOGY 302 Princ of Microbiology 4 cr (F,S)
- ☐ BIOLOGY 307 Cell Biology 3 cr (S)

Upper level Electives, 6 credits

Additional upper-level courses in human biology, biology and chemistry will depend upon the student's choice of clinical facility. Other courses to be used as electives can be found on the back of this page.

These courses should be selected with the help of a faculty advisor.

Recommended electives are below.

- ☐ BIOLOGY 302 Princ of 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 402 Advanced Microbiol 4 cr (SE) WE
- ☐ BIOLOGY 407 Molecular Biology 3 cr (SO)
- ☐ BIOLOGY 408 Molecular Biology Lab 1 cr (SO)
- ☐ BIOLOGY 410 Developmental Biol 3 cr (SO) WE
- ☐ BIOLOGY 411 Developmental Biol Lab 1 cr (V)
- ☐ HUM BIOL 422 Immunology 3 cr (SO) WE
- ☐ HUM BIOL 423 Immunology Lab 1 cr (V)
- ☐ HUM BIOL 426 Cancer Biology 3 cr (V)
- ☐ HUM BIOL 427 Cancer Biology Lab 1 cr (V)
- ☐ NUT SCI 300 Human Nutrition 3 cr (F,S)

Cytotechnology Internship, 32 credits:

Upon completion of the cytotechnology program, the student transfers the coursework (from there) to internship credit at UW-Green Bay.

- ☐ HUM BIOL 497 Internship, 32 credits

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

**The Capstone requirement is automatically met via the courses taken as part of the 32 credit internship.

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 Semin • ☐ Global Culture • ☐ Humanities • ☐ Natural Sci
☐ Quantitative Literacy • ☐ Social Sciences • ☐ Sustainability • ☐ Writ Emph (2 up.level) • ☐ Writ Emph (2 low level) **Key:** ☐ 1-4 cr ☐ 6 cr

Term _____

Term _____

Term _____

Term _____

Term _____

Term _____

Term _____

Term _____

Human Biology	Biology
<input type="checkbox"/> HUM BIOL 310 Human Genetics 3 cr (F,S) WE <input type="checkbox"/> HUM BIOL 318 Reproductive Biology 3 cr (S) <input type="checkbox"/> HUM BIOL 322 Epidemiology (S) <input type="checkbox"/> HUM BIOL 324 Biology of Women 3 cr (S) <input type="checkbox"/> HUM BIOL 331 Science and Religion 3 cr (V) <input type="checkbox"/> HUM BIOL 333 Princ Sports Phys 3 cr (S) <input type="checkbox"/> HUM BIOL 341 Human Anatomy Lab 1 cr* (F) <input type="checkbox"/> HUM BIOL 344 Epidemiology 3 cr (S) <input type="checkbox"/> HUM BIOL 351 Kinesiology 4 cr* (F) <input type="checkbox"/> HUM BIOL 360 Exercise Phys 4 cr* (F) WE & HUM BIOL 361 Hum Phys Lab: Exerc-Metab <input type="checkbox"/> HUM BIOL 401 Art and Science 1 cr (S) <input type="checkbox"/> HUM BIOL 402 Human Physiology 3 cr (F,S) <input type="checkbox"/> HUM BIOL 403 Human Phys Lab 1 cr* (S) WE <input type="checkbox"/> HUM BIOL 413 Neurobiology 3 cr (F) <input type="checkbox"/> HUM BIOL 422 Immunology 3 cr (S) WE <input type="checkbox"/> HUM BIOL 423 Immunology Lab 1 cr* (V) <input type="checkbox"/> HUM BIOL 426 Cancer Biology 3 cr (F) <input type="checkbox"/> HUM BIOL 427 Cancer Biology Lab 1 cr* (V) <input type="checkbox"/> HUM BIOL 444 Endocrinology 3 cr (V) WE <input type="checkbox"/> HUM BIOL 478 Honors in the Major 3 cr <input type="checkbox"/> HUM BIOL 495 Research in Human Biol 1-4 cr <input type="checkbox"/> HUM BIOL 497 Internship 1-4 cr <input type="checkbox"/> HUM BIOL 498 Independent Study 1-4 cr	<input type="checkbox"/> BIOLOGY 302 Microbiology 4 cr* (F,S) <input type="checkbox"/> BIOLOGY 303 Genetics 3 cr (F,S) <input type="checkbox"/> BIOLOGY 304 Genetics Laboratory 1 cr* (F) WE <input type="checkbox"/> BIOLOGY 307 Cell Biology 3 cr (F,S) <input type="checkbox"/> BIOLOGY 308 Cell Biology Lab 1 cr* (F,S) WE <input type="checkbox"/> BIOLOGY 309 Evolutionary Biology (F,S) <input type="checkbox"/> BIOLOGY 340 Comparative Anatomy 4 cr* (F) WE <input type="checkbox"/> BIOLOGY 345 Animal Behavior 3 cr (SE) <input type="checkbox"/> BIOLOGY 346 Comparative Physiology 3 cr (S) <input type="checkbox"/> BIOLOGY 402 Advanced Microbiology 4 cr* (F) WE <input type="checkbox"/> BIOLOGY 407 (CHEM 407) Molecular Biol 3 cr (SO) <input type="checkbox"/> BIOLOGY 408 (CHEM 408) Molec Biol Lab 1 cr* (SO) <input type="checkbox"/> BIOLOGY 410 Development Biology 3 cr (SO) WE <input type="checkbox"/> BIOLOGY 411 Development Biology Lab 1 cr* (V)
	Chemistry
Nutritional Science <input type="checkbox"/> NUT SCI 300 Human Nutrition 3 cr (F,S) <input type="checkbox"/> NUT SCI 327 Nutritional Biochemistry 4 cr* (F) <input type="checkbox"/> NUT SCI 350 Life Cycle Nutrition 3 cr (S) <input type="checkbox"/> NUT SCI 427 Adv Nutrition & Metabolism 3 cr (S) <input type="checkbox"/> NUT SCI 486 Medical Nutrition Therapy II (S)	<input type="checkbox"/> CHEM 300 Bio-Organic Chemistry 3 cr (S) <input type="checkbox"/> CHEM 301 Bio-Organic Chemistry Lab 1 cr (S) <input type="checkbox"/> CHEM 302 Organic Chemistry I 3 cr (FS) <input type="checkbox"/> CHEM 303 Organic Chemistry II 3 cr (FS) <input type="checkbox"/> CHEM 304 Organic Chem Lab I 1 cr (FS) <input type="checkbox"/> CHEM 305 Organic Chem Lab II 1 cr (FS) <input type="checkbox"/> CHEM 330 Biochemistry 3 cr (FS) <input type="checkbox"/> CHEM 331 Biochemistry Lab 1 cr* (FS)
Environmental Science	Psychology
<input type="checkbox"/> ENV SCI 339 Scientific Writing	Maximum of ONE... <input type="checkbox"/> PSYCH2 308 Physiological Psychology 3 cr (S) <input type="checkbox"/> PSYCH2 435 Abnormal Psychology 3 cr (F,S) <input type="checkbox"/> PSYCH2 450 Health Psychology 3 cr (S)
F = fall, S = spring O = odd years, E = even years, V = varies, WE = writing emphasis *= upper level lab course	Notes – for academic plans filed beginning fall 2017 <ul style="list-style-type: none"> all emphases can use any course on this list as an upper level elective all emphases include an “organic chemistry” component COMM SCI 205 (Social Science stats) is no longer 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