

# Human Biology Major

Students must complete requirements in one of the following areas of emphasis:

- Health Science
- Exercise Science
- Applied Public Health
- Nutritional Sciences/Dietetics
- General Human Biology
- Cytotechnology

## Health Science

Code	Title	Credits
<b>Supporting Courses <sup>1</sup></b>		<b>41-44</b>
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	
CHEM 207	Laboratory Safety (must take at the same time OR before taking chemistry)	
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory	
<b>Choose one (of 2) Anatomy and Physiology options:</b>		
HUM BIOL 240 & HUM BIOL 241	Anatomy and Physiology and Anatomy and Physiology Lab	
or BOTH		
HUM BIOL 221 & HUM BIOL 222	Anatomy and Physiology I and Anatomy and Physiology II	
MATH 260	Introductory Statistics	
<b>Choose one of the following courses:</b>		
MATH 104	Precalculus	
MATH 202	Calculus and Analytic Geometry I	
MATH 203	Calculus and Analytic Geometry II	
<b>Choose one of the following options:</b>		
PHYSICS 103 & PHYSICS 104	Fundamentals of Physics I and Fundamentals of Physics II	
PHYSICS 201 & PHYSICS 202	Principles of Physics I and Principles of Physics II	
<b>Writing Requirement <sup>2</sup></b>		
WF 105	Research and Rhetoric	
<b>Choose one of the following 3 options:</b>		
COMM 133	Fundamentals of Public Address	
or COMM 166	Fundamentals of Interpersonal Communication	
OR		
Any literature course, e.g., ENGLISH 104 Introduction to Literature		
OR		
One year of any college-level foreign language		
<b>Upper-Level Courses</b>		<b>32-33</b>
<b>Choose three of the following course options:</b>		
BIOLOGY 303 or HUM BIOL 310	Genetics Human Genetics	
BIOLOGY 307	Cell Biology	
HUM BIOL 402	Human Physiology	
NUT SCI 300	Human Nutrition	

**Required Courses**

BIOLOGY 323 & BIOLOGY 324	Principles of Microbiology and Principles of Microbiology Laboratory
CHEM 302 & CHEM 304	Organic Chemistry I and Organic Chemistry Laboratory I
CHEM 303 & CHEM 305	Organic Chemistry II and Organic Chemistry Laboratory II
CHEM 330 or CHEM 311	Biochemistry Analytical Chemistry

**Health Science Electives (minimum of 8 credits):<sup>3</sup>**

BIOLOGY 304	Genetics Laboratory
BIOLOGY 308	Cell Biology Laboratory
BIOLOGY 340	Comparative Anatomy of Vertebrates
BIOLOGY 402	Advanced Microbiology
BIOLOGY/CHEM 408	Molecular Biology Laboratory
BIOLOGY 411	Developmental Biology Laboratory
CHEM 331	Biochemistry Laboratory
HUM BIOL 341	Human Anatomy Laboratory
HUM BIOL 351	Kinesiology
HUM BIOL 361 & HUM BIOL 360	Human Physiology Lab - Exercise and Metabolism and Exercise Physiology
HUM BIOL 403	Human Physiology Laboratory
HUM BIOL 423	Immunology Lab
HUM BIOL 427	Cancer Biology Laboratory

**Additional Upper-Level Electives**

HUM BIOL 310	Human Genetics
HUM BIOL 318	Reproductive Biology
HUM BIOL 322	Epidemiology
HUM BIOL 324	The Biology of Women
HUM BIOL 331	Science and Religion: Spirit of Inquiry
HUM BIOL 333	Principles of Sports Physiology
HUM BIOL 360 & HUM BIOL 361	Exercise Physiology and Human Physiology Lab - Exercise and Metabolism
HUM BIOL 401	Art and Science
HUM BIOL 413	Neurobiology
HUM BIOL 402	Human Physiology
HUM BIOL 403	Human Physiology Laboratory
HUM BIOL 422	Immunology
HUM BIOL 426	Cancer Biology
HUM BIOL 444	Endocrinology
BIOLOGY 303	Genetics
BIOLOGY 304	Genetics Laboratory
BIOLOGY 307	Cell Biology
BIOLOGY 308	Cell Biology Laboratory
BIOLOGY 309	Evolutionary Biology
BIOLOGY 340	Comparative Anatomy of Vertebrates
BIOLOGY 345	Animal Behavior
BIOLOGY 346	Comparative Physiology
BIOLOGY 402	Advanced Microbiology
BIOLOGY/CHEM 407	Molecular Biology
BIOLOGY/CHEM 408	Molecular Biology Laboratory
BIOLOGY 410	Developmental Biology
CHEM 311	Analytical Chemistry

CHEM 330	Biochemistry
BIOLOGY 411	Developmental Biology Laboratory
CHEM 331	Biochemistry Laboratory
NUT SCI 300	Human Nutrition
NUT SCI 327	Nutritional Biochemistry
NUT SCI 350	Life Cycle Nutrition
NUT SCI 427	Advanced Nutrition and Metabolism
NUT SCI 486	Medical Nutrition Therapy II
Maximum of ONE Psychology course	
PSYCH 308	Physiological Psychology (Maximum of ONE Psychology Course)
PSYCH 435	Abnormal Psychology
PSYCH 450	Health Psychology

**Total Credits****73-77**

- <sup>1</sup> It is highly recommended that as **freshmen**, pre-medical and pre-dental students take BIOLOGY 201, BIOLOGY 202 and CHEM 211, CHEM 212, CHEM 213, CHEM 214 and consult and adviser.
- <sup>2</sup> Satisfied with an ACT English score of 32 or higher.
- <sup>3</sup> Requires a minimum of two upper-level laboratory courses within the Health Science electives

**Exercise Science**

Code	Title	Credits
<b>Supporting Courses</b>		<b>27</b>
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	
CHEM 207	Laboratory Safety (must take at the same time OR before taking chemistry)	
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory	
HUM BIOL 116	First Aid and Emergency Care Procedures (First Aid/CPR Requirement may be met with Red Cross Certification))	
HUM BIOL 210	Prevention and Treatment of Athletic Injuries	
MATH 260	Introductory Statistics	
PHYSICS 103 or PHYSICS 201	Fundamentals of Physics I Principles of Physics I	
<b>Choose one (of 2) Anatomy and Physiology Options:</b>		
HUM BIOL 240 & HUM BIOL 241 or BOTH	Anatomy and Physiology and Anatomy and Physiology Lab	
HUM BIOL 221 & HUM BIOL 222	Anatomy and Physiology I and Anatomy and Physiology II	
<b>Writing Requirement <sup>1</sup></b>		<b>0-3</b>
WF 105	Research and Rhetoric	
<b>Choose one of the following 3 options:</b>		
COMM 133 or COMM 166	Fundamentals of Public Address Fundamentals of Interpersonal Communication	
OR		
Any literature course, e.g., English104 Introduction to Literature		
OR		
One year of any college-level foreign language		
Strongly recommended, but not required.		
NURSING 200	Fundamentals of Healthcare Terminology	
<b>Upper-Level Courses</b>		<b>30</b>

HUM BIOL 333	Principles of Sports Physiology
HUM BIOL 351	Kinesiology
HUM BIOL 360 & HUM BIOL 361	Exercise Physiology and Human Physiology Lab - Exercise and Metabolism
NUT SCI 300	Human Nutrition
<b>Choose one of the following courses:</b>	
BIOLOGY 303 or HUM BIOL 310	Genetics Human Genetics
<b>Organic Chemistry options</b>	
CHEM 300 & CHEM 301	Bio-Organic Chemistry and Bio-Organic Chemistry Laboratory
OR	
CHEM 302 & CHEM 304	Organic Chemistry I and Organic Chemistry Laboratory I
<b>Additional Courses <sup>2</sup></b>	
BIOLOGY 304	Genetics Laboratory
BIOLOGY 308	Cell Biology Laboratory
BIOLOGY 324	Principles of Microbiology Laboratory
BIOLOGY 340	Comparative Anatomy of Vertebrates
BIOLOGY 402	Advanced Microbiology
BIOLOGY/CHEM 408	Molecular Biology Laboratory
BIOLOGY 411	Developmental Biology Laboratory
HUM BIOL 341	Human Anatomy Laboratory
HUM BIOL 403	Human Physiology Laboratory
HUM BIOL 423	Immunology Lab
HUM BIOL 427	Cancer Biology Laboratory
HUM BIOL 310	Human Genetics
HUM BIOL 318	Reproductive Biology
HUM BIOL 322	Epidemiology
HUM BIOL 324	The Biology of Women
HUM BIOL 331	Science and Religion: Spirit of Inquiry
HUM BIOL 361	Human Physiology Lab - Exercise and Metabolism
HUM BIOL 401	Art and Science
HUM BIOL 402	Human Physiology
HUM BIOL 413	Neurobiology
HUM BIOL 422	Immunology
HUM BIOL 426	Cancer Biology
HUM BIOL 444	Endocrinology
HUM BIOL 495	Teaching Assistantship
BIOLOGY 323	Principles of Microbiology
HUM BIOL 497	Internship
HUM BIOL 498	Independent Study
BIOLOGY 303	Genetics
BIOLOGY 304	Genetics Laboratory
BIOLOGY 307	Cell Biology
BIOLOGY 308	Cell Biology Laboratory
BIOLOGY 309	Evolutionary Biology
BIOLOGY 340	Comparative Anatomy of Vertebrates
BIOLOGY 345	Animal Behavior
BIOLOGY 346	Comparative Physiology
BIOLOGY 407	Molecular Biology
BIOLOGY 408	Molecular Biology Laboratory
BIOLOGY 410	Developmental Biology

BIOLOGY 411	Developmental Biology Laboratory
CHEM 303	Organic Chemistry II
CHEM 305	Organic Chemistry Laboratory II
CHEM 330	Biochemistry
CHEM 331	Biochemistry Laboratory
NUT SCI 327	Nutritional Biochemistry
NUT SCI 350	Life Cycle Nutrition
NUT SCI 427	Advanced Nutrition and Metabolism
NUT SCI 486	Medical Nutrition Therapy II

(Only) ONE course in Psychology may be used for upper-level electives.

PSYCH 308	Physiological Psychology
PSYCH 435	Abnormal Psychology
PSYCH 450	Health Psychology

**Total Credits** **57-60**

<sup>1</sup> Satisfied with an ACT English score of 32 or higher

<sup>2</sup> Verify 1 course is Laboratory Elective

## Applied Public Health

Code	Title	Credits
<b>Supporting Courses</b>		<b>41-44</b>
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	
CHEM 207	Laboratory Safety	
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory	
NUT SCI 212	Science of Food Preparation	
NURSING 200	Fundamentals of Healthcare Terminology	
WF 105	Research and Rhetoric <sup>1</sup>	
<b>Select one (of 2) Anatomy and Physiology Options:</b>		
HUM BIOL 240 & HUM BIOL 241	Anatomy and Physiology and Anatomy and Physiology Lab	
or BOTH		
HUM BIOL 221 & HUM BIOL 222	Anatomy and Physiology I and Anatomy and Physiology II	
<b>MATH</b>		
MATH 104	Precalculus	
MATH 260	Introductory Statistics	
<b>Select one (of 3) options:</b>		
COMM 133 or COMM 166	Fundamentals of Public Address Fundamentals of Interpersonal Communication	
<b>OR</b>		
Any literature course, e.g., ENGLISH 104 Introduction to Literature		
<b>OR</b>		
One year of college-level foreign language		

**Upper-Level Courses** **30**

**Required:**

BIOLOGY 323 & BIOLOGY 324	Principles of Microbiology and Principles of Microbiology Laboratory
HUM BIOL 322	Epidemiology
NUT SCI 312	Quantity Food Production and Service

NUT SCI 421	Community and Public Health Nutrition
HIMT 360	Healthcare II: Survey of Disease & Treatments
<b>Choose one:</b>	
BIOLOGY 402	Advanced Microbiology
HUM BIOL 427	Cancer Biology Laboratory
<b>Select one option for organic chemistry:</b>	
CHEM 300 & CHEM 301	Bio-Organic Chemistry and Bio-Organic Chemistry Laboratory
CHEM 302 & CHEM 304	Organic Chemistry I and Organic Chemistry Laboratory I
<b>Electives, as needed, to acquire 30 credits of upper level coursework. Options to fulfill this requirement include upper level courses in Human Biology, Nutritional Science, Biology and Psychology.</b>	
<b>Total Credits</b>	<b>71-74</b>

<sup>1</sup> May be satisfied with an ACT English score of 32 or higher

## Nutritional Sciences/Dietetics

Note: Students must have a grade of C or better in CHEM 211 and BIO 201 in order to declare their major in Nutritional Science

Code	Title	Credits
<b>Supporting Courses</b>		<b>35-38</b>
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	
CHEM 207	Laboratory Safety (must take at the same time OR before taking chemistry)	
COMM 133	Fundamentals of Public Address	
MATH 260	Introductory Statistics	
WF 105	Research and Rhetoric <sup>1</sup>	
<b>Select one (of 2) Anatomy and Physiology options:</b>		
HUM BIOL 240 & HUM BIOL 241 or BOTH	Anatomy and Physiology and Anatomy and Physiology Lab	
HUM BIOL 221 & HUM BIOL 222	Anatomy and Physiology I and Anatomy and Physiology II	
NUT SCI 201	Survey of Nutrition Related Professions	
NUT SCI 212	Science of Food Preparation	
PSYCH 102 or PSYCH 203	Introduction to Psychology Introduction to Lifespan Development	
<b>Required Courses</b>		
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory	
<b>Required Upper-Level Courses</b>		<b>45-46</b>
BIOLOGY 303 or HUM BIOL 310	Genetics Human Genetics	
BIOLOGY 323 & BIOLOGY 324	Principles of Microbiology and Principles of Microbiology Laboratory	
CHEM 300 & CHEM 301	Bio-Organic Chemistry and Bio-Organic Chemistry Laboratory	
<b>Select one (of two) physiology options</b>		
HUM BIOL 360 & HUM BIOL 361 or HUM BIOL 402	Exercise Physiology and Human Physiology Lab - Exercise and Metabolism Human Physiology	
NUT SCI 300	Human Nutrition	

NUT SCI 312	Quantity Food Production and Service
NUT SCI 350	Life Cycle Nutrition
NUT SCI 421	Community and Public Health Nutrition
NUT SCI 427	Advanced Nutrition and Metabolism
NUT SCI 485	Medical Nutrition Therapy I: an Integrative and Functional Approach
NUT SCI 486	Medical Nutrition Therapy II
NUT SCI 487	Nutritional Science Seminar

**Choose one of the following options:**

NUT SCI 327	Nutritional Biochemistry
CHEM 330 & CHEM 331	Biochemistry and Biochemistry Laboratory

**Additional Courses (NOT REQUIRED) to Consider**

NUT SCI 495	Teaching Assistantship
NUT SCI 497	Internship
NUT SCI 498	Independent Study

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**Total Credits** **80-84**

<sup>1</sup> Satisfied for students with an ACT English score of 32 or higher.

s/Dietetics Emphasis.

## General Human Biology

Code	Title	Credits
<b>Supporting Courses</b>		<b>30-35</b>
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	
CHEM 207	Laboratory Safety (must take at the same time OR before taking chemistry)	
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory	
WF 105	Research and Rhetoric <sup>1</sup>	
<b>Choose one (of 2) Anatomy and Physiology options:</b>		
HUM BIOL 240 & HUM BIOL 241	Anatomy and Physiology and Anatomy and Physiology Lab	
or BOTH		
HUM BIOL 221 & HUM BIOL 222	Anatomy and Physiology I and Anatomy and Physiology II	
MATH 260	Introductory Statistics	
<b>Choose one of the following 3 options:</b>		
COMM 133 or COMM 166	Fundamentals of Public Address Fundamentals of Interpersonal Communication	
<b>or</b>		
Any literature course, e.g., ENGLISH 104 Introduction to Literature		
<b>or</b>		
One year of any college-level foreign language		
<b>Organic Chemistry - choose one option</b>		
CHEM 300 & CHEM 301	Bio-Organic Chemistry and Bio-Organic Chemistry Laboratory	
<b>OR</b>		
CHEM 302 & CHEM 304	Organic Chemistry I and Organic Chemistry Laboratory I	

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**Upper-Level Courses** **30-31**

**Choose one course from three of the four areas:**

<b>Genetics</b>	
BIOLOGY 303 or HUM BIOL 310	Genetics Human Genetics
<b>Physiology (one of two options)</b>	
HUM BIOL 402	Human Physiology
HUM BIOL 360 & HUM BIOL 361	Exercise Physiology and Human Physiology Lab - Exercise and Metabolism <sup>3</sup>
<b>Nutrition</b>	
NUT SCI 300	Human Nutrition
<b>Cell Biology</b>	
BIOLOGY 323 or BIOLOGY 307	Principles of Microbiology Cell Biology
<b>Additional Courses</b> <sup>2, 3</sup>	
BIOLOGY 304	Genetics Laboratory
BIOLOGY 308	Cell Biology Laboratory
BIOLOGY 323	Principles of Microbiology
BIOLOGY 324	Principles of Microbiology Laboratory
BIOLOGY 340	Comparative Anatomy of Vertebrates
BIOLOGY 402	Advanced Microbiology
BIOLOGY/CHEM 408	Molecular Biology Laboratory
BIOLOGY 411	Developmental Biology Laboratory
CHEM 331	Biochemistry Laboratory
HUM BIOL 341	Human Anatomy Laboratory
HUM BIOL 351	Kinesiology
HUM BIOL 403	Human Physiology Laboratory
HUM BIOL 360 & HUM BIOL 361	Exercise Physiology and Human Physiology Lab - Exercise and Metabolism
HUM BIOL 423	Immunology Lab
HUM BIOL 427	Cancer Biology Laboratory
NUT SCI 327	Nutritional Biochemistry
HUM BIOL 310	Human Genetics
HUM BIOL 318	Reproductive Biology
HUM BIOL 322	Epidemiology
HUM BIOL 324	The Biology of Women
HUM BIOL 331	Science and Religion: Spirit of Inquiry
HUM BIOL 333	Principles of Sports Physiology
HUM BIOL 341	Human Anatomy Laboratory
HUM BIOL 351	Kinesiology
HUM BIOL 360 & HUM BIOL 361	Exercise Physiology and Human Physiology Lab - Exercise and Metabolism
HUM BIOL 402	Human Physiology
HUM BIOL 403	Human Physiology Laboratory
HUM BIOL 413	Neurobiology
HUM BIOL 422	Immunology
HUM BIOL 426	Cancer Biology
HUM BIOL 444	Endocrinology
BIOLOGY 302	Principles of Microbiology
HUM BIOL 495	Teaching Assistantship
HUM BIOL 497	Internship
HUM BIOL 498	Independent Study
BIOLOGY 303	Genetics
BIOLOGY 302	Principles of Microbiology



BIOLOGY 303	Genetics
BIOLOGY 304	Genetics Laboratory
BIOLOGY 307	Cell Biology
BIOLOGY 308	Cell Biology Laboratory
BIOLOGY 309	Evolutionary Biology
BIOLOGY 340	Comparative Anatomy of Vertebrates
BIOLOGY 345	Animal Behavior
BIOLOGY 346	Comparative Physiology
BIOLOGY 402	Advanced Microbiology
BIOLOGY/CHEM 407	Molecular Biology
BIOLOGY/CHEM 408	Molecular Biology Laboratory
BIOLOGY 410	Developmental Biology
BIOLOGY 411	Developmental Biology Laboratory
CHEM 302	Organic Chemistry I
CHEM 303	Organic Chemistry II
CHEM 304	Organic Chemistry Laboratory I
CHEM 305	Organic Chemistry Laboratory II
CHEM 330	Biochemistry
CHEM 331	Biochemistry Laboratory
NUT SCI 300	Human Nutrition
NUT SCI 327	Nutritional Biochemistry
NUT SCI 350	Life Cycle Nutrition
NUT SCI 427	Advanced Nutrition and Metabolism
NUT SCI 486	Medical Nutrition Therapy II
(Only) ONE Psychology courses may be used toward upper-level requirements	
PSYCH 308	Physiological Psychology
PSYCH 435	Abnormal Psychology
PSYCH 450	Health Psychology

**Total Credits****60-66**

- 1 Satisfied with an ACT English score of 32 or higher
- 2 Select upper-level courses with assistance of a faculty adviser. A maximum of one PSYCH course can be applied to the major.
- 3 Verify 3 courses are Laboratory Elective

## Cytotechnology

- UW-Green Bay is affiliated with two schools of cytotechnology: the Mayo Clinic and UW-Madison.
- Students complete 92 credits at UW-Green Bay, including all general education requirements, and then take an 11-month, 32-credit clinical internship at one of the cooperating institutions.
- After completion of the internship, students will graduate with a degree in Human Biology and be eligible for professional certification.

Code	Title	Credits
<b>Supporting Courses</b>		<b>31-34</b>
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	
CHEM 207	Laboratory Safety	
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory	
WF 105	Research and Rhetoric <sup>1</sup>	
<b>Select one (of 3) options:</b>		
COMM 133 or COMM 166	Fundamentals of Public Address Fundamentals of Interpersonal Communication	

or

Any literature course, e.g., ENGLISH 104 Introduction to Literature

or

One year of college-level foreign language

**Select one (of 2) Anatomy and Physiology options:**

HUM BIOL 240 & HUM BIOL 241	Anatomy and Physiology and Anatomy and Physiology Lab
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or BOTH

HUM BIOL 221 & HUM BIOL 222	Anatomy and Physiology I and Anatomy and Physiology II
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**Math**

MATH 104	Precalculus
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MATH 260	Introductory Statistics
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**Upper-Level Courses**

53-54

**Select one course from three of the four areas:****Genetics**

BIOLOGY 303	Genetics
or HUM BIOL 310	Human Genetics

**Physiology**

HUM BIOL 402	Human Physiology
HUM BIOL 360 & HUM BIOL 361	Exercise Physiology and Human Physiology Lab - Exercise and Metabolism

**Nutrition**

NUT SCI 300	Human Nutrition
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**Cell Biology**

BIOLOGY 323	Principles of Microbiology
or BIOLOGY 307	Cell Biology

**Choose 6 credits of the following elective courses: <sup>2</sup>**

HUM BIOL 310	Human Genetics
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HUM BIOL 318	Reproductive Biology
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HUM BIOL 322	Epidemiology
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HUM BIOL 331	Science and Religion: Spirit of Inquiry
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HUM BIOL 341	Human Anatomy Laboratory
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HUM BIOL 351	Kinesiology
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HUM BIOL 361	Human Physiology Lab - Exercise and Metabolism
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HUM BIOL 401	Art and Science
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HUM BIOL 413	Neurobiology
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HUM BIOL 422	Immunology
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HUM BIOL 426	Cancer Biology
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HUM BIOL 444	Endocrinology
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BIOLOGY 303	Genetics
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BIOLOGY 304	Genetics Laboratory
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BIOLOGY 307	Cell Biology
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BIOLOGY 308	Cell Biology Laboratory
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BIOLOGY 309	Evolutionary Biology
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BIOLOGY 323	Principles of Microbiology
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BIOLOGY 324	Principles of Microbiology Laboratory
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BIOLOGY 340	Comparative Anatomy of Vertebrates
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BIOLOGY 345	Animal Behavior
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BIOLOGY 346	Comparative Physiology
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BIOLOGY 402	Advanced Microbiology
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BIOLOGY 407	Molecular Biology
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BIOLOGY 408	Molecular Biology Laboratory
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BIOLOGY 410	Developmental Biology
BIOLOGY 411	Developmental Biology Laboratory
CHEM 300	Bio-Organic Chemistry
CHEM 301	Bio-Organic Chemistry Laboratory
CHEM 302	Organic Chemistry I
CHEM 303	Organic Chemistry II
CHEM 304	Organic Chemistry Laboratory I
CHEM 305	Organic Chemistry Laboratory II
CHEM 330	Biochemistry
CHEM 331	Biochemistry Laboratory
NUT SCI 300	Human Nutrition
NUT SCI 327	Nutritional Biochemistry
NUT SCI 350	Life Cycle Nutrition
NUT SCI 427	Advanced Nutrition and Metabolism
NUT SCI 486	Medical Nutrition Therapy II
(Only) ONE Psychology course may be used for upper level electives.	
PSYCH 308	Physiological Psychology
PSYCH 435	Abnormal Psychology
PSYCH 450	Health Psychology
<b>Cytotechnology Internship</b>	
HUM BIOL 497	Internship <sup>3</sup>

**Total Credits****84-88**

- <sup>1</sup> Satisfied for students with an ACT English score of 32 or higher.
- <sup>2</sup> Additional upper-level courses in Human Biology, Biology and Chemistry will depend upon the student's choice of clinical facility. These courses should be selected with the help of a faculty adviser.
- <sup>3</sup> Students complete 32 credits of internship total over a 3 semester sequence. In some situations students may choose to pursue clinical training after graduation from UW-Green Bay. In this option is selected, additional upper-level elective credits are required. Consult an adviser for these situations.