Human Biology Major

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

Human Genetics

Human Physiology

Human Nutrition

Cell Biology

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

or HUM BIOL 310

BIOLOGY 307

HUM BIOL 402

NUT SCI 300

• Cytotechnology

Health Science

Code	Title	Credits
Supporting Courses ¹		41-44
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	
Choose one (of 2) Anatomy and	d Physiology options:	
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	
Choose one of the following co	purses:	
MATH 104	Precalculus	
MATH 202	Calculus and Analytic Geometry I	
MATH 203	Calculus and Analytic Geometry II	
Choose one of the following op	otions:	
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	
Writing Requirement ²		
WF 105	Research and Rhetoric	
Choose one of the following 3	options:	
COMM 133	Fundamentals of Public Address	
or COMM 166	Fundamentals of Interpersonal Communication	
OR		
Any literature course, e.g., ENGL	ISH 104 Introduction to Literature	
OR		
One year of any college-level fore	eign language	
Upper-Level Courses		32-33
Choose three of the following of	·	
BIOLOGY 303	Genetics	

Required Courses	
BIOLOGY 323 & BIOLOGY 324	Principles of Microbiology and Principles of Microbiology Laboratory
CHEM 302	Organic Chemistry I
& CHEM 304	and Organic Chemistry Laboratory I
CHEM 303	Organic Chemistry II
& CHEM 305	and Organic Chemistry Laboratory II
CHEM 330	Biochemistry
or CHEM 311	Analytical Chemistry
Health Science Electives ((minimum of 8 credits): ³
BIOLOGY 304	Genetics Laboratory
BIOLOGY 308	Cell Biology Laboratory
BIOLOGY 340	Comparative Anatomy of Vertebrates
BIOLOGY 402	Advanced Microbiology
BIOLOGY 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	Human Physiology Lab - Exercise and Metabolism
& HUM BIOL 360	and Exercise Physiology
HUM BIOL 403	Human Physiology Laboratory
HUM BIOL 423	Immunology Lab
HUM BIOL 427	Cancer Biology Laboratory
Additional Upper-Level Ele	
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 407	Molecular Biology
BIOLOGY 408	Molecular Biology Laboratory
BIOLOGY 410	Developmental Biology
BIOLOGY 411	Developmental Biology Laboratory
CHEM 311	Analytical Chemistry
CHEM 330	Biochemistry
	•
CHEM 331	Biochemistry Laboratory
HUM BIOL 310	Human Genetics
HUM BIOL 333	Reproductive Biology
HUM BIOL 322	Epidemiology The Dialogue of Warrant
HUM BIOL 324	The Biology of Women
HUM BIOL 331	Science and Religion: Spirit of Inquiry
HUM BIOL 333	Principles of Sports Physiology
WHUM 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

Total Cradita	70.7
PSYCH 450	Health Psychology
PSYCH 435	Psychopathology
PSYCH 308	Physiological Psychology (Maximum of ONE Psychology Course)
Maximum of ONE Psychology course	
NUT SCI 486	Medical Nutrition Therapy II: An Integrative and Functional Approach
NUT SCI 427	Nutrigenomics and Advanced Nutrient Metabolism
NUT SCI 350	Life Cycle Nutrition
NUT SCI 327	Nutritional Biochemistry
NUT SCI 300	Human Nutrition
HUM BIOL 444	Endocrinology
HUM BIOL 426	Cancer Biology
HUM BIOL 422	Immunology

Total Credits 73-77

- 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.
- ² Satisfied with an ACT English score of 32 or higher.
- Requires a minimum of two upper-level laboratory courses within the Health Science electives

Exercise Science

Code	Title	Credits
Supporting Courses		27
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 Laboratory	
CHEM 212 & CHEM 214	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	Fundamentals of Physics I	
or PHYSICS 201	Principles of Physics I	
Choose one (of 2) Anatomy and P	hysiology Options:	
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	
Writing Requirement ¹		0-3
WF 105	Research and Rhetoric	
Choose one of the following 3	options:	
COMM 133	Fundamentals of Public Address	
or COMM 166	Fundamentals of Interpersonal Communication	
OR		
Any literature course, e.g., Englis	h104 Introduction to Literature	
OR		
One year of any college-level fore	eign language	
Strongly recommended, but not requ	uired.	
NURSING 200	Fundamentals of Healthcare Terminology	
Upper-Level Courses		30

Human Biology Major

HUM BIOL 498

Independent Study

4

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
Choose one of the following cou	urses:
BIOLOGY 303	Genetics
or HUM BIOL 310	Human Genetics
Organic Chemistry options	
CHEM 300	Bio-Organic Chemistry
& CHEM 301	and Bio-Organic Chemistry Laboratory
OR	
CHEM 302 & CHEM 304	Organic Chemistry I
Additional Courses ²	and Organic Chemistry Laboratory I
BIOLOGY 303	Genetics
BIOLOGY 303	Genetics Laboratory
BIOLOGY 307	•
BIOLOGY 308	Cell Biology Coll Biology Laboratory
BIOLOGY 309	Cell Biology Laboratory Evolutionary Biology
BIOLOGY 323	Principles of Microbiology
BIOLOGY 324	Principles of Microbiology Principles of Microbiology Laboratory
BIOLOGY 340	Comparative Anatomy of Vertebrates
BIOLOGY 345	Animal Behavior
BIOLOGY 346	Comparative Physiology
BIOLOGY 402	Advanced Microbiology
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
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
HUM BIOL 497	Internship
LILIM DIOL 400	

NUT SCI 327	Nutritional Biochemistry
NUT SCI 350	Life Cycle Nutrition
NUT SCI 427	Nutrigenomics and Advanced Nutrient Metabolism
NUT SCI 486	Medical Nutrition Therapy II: An Integrative and Functional Approach
(Only) ONE course in Psyc	hology may be used for upper-level electives.
PSYCH 308	Physiological Psychology
PSYCH 435	Psychopathology
PSYCH 450	Health Psychology

Total Credits 57-60

Applied Public Health

BIOLOGY 402

HUM BIOL 427

Advanced Microbiology

Cancer Biology Laboratory

Applied Public Health	1	
Code	Title	Credits
Supporting Courses		41-44
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 ¹	
Select one (of 2) Anatomy and	Physiology Optons:	
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		
MATH 104	Precalculus	
MATH 260	Introductory Statistics	
Select one (of 3) options:		
COMM 133	Fundamentals of Public Address	
or COMM 166	Fundamentals of Interpersonal Communication	
OR		
Any literature course, e.g., ENGLISH	H 104 Introduction to Literature	
OR		
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	
Choose one:		

Satisfied with an ACT English score of 32 or higher

Verify 1 course is Laboratory Elective

Select one option for organic chemistry:

CHEM 300	Bio-Organic Chemistry
& CHEM 301	and Bio-Organic Chemistry Laboratory
CHEM 302	Organic Chemistry I

& CHEM 304 and Organic Chemistry Laboratory I

Electives, as needed, to acquire 30 credits of upper level coursework. Options to fulfill this requirement include upper level courses in Human Biology, Nutrional Science, Biology and Psychology.

Total Credits 71-74

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
Supporting Courses		35-38
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 ¹	
Select one (of 2) Anatomy and	Physiology options:	
HUM BIOL 240	Anatomy and Physiology	
& HUM BIOL 241	and Anatomy and Physiology Lab	
or BOTH		
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	Introduction to Psychology	
or PSYCH 203	Introduction to Lifespan Development	
Required Courses		
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	
Required Upper-Level Courses	and I miciples of Chemistry if Laboratory	45-46
BIOLOGY 303	Genetics	40 40
or HUM BIOL 310	Human Genetics	
BIOLOGY 323	Principles of Microbiology	
& BIOLOGY 324	and Principles of Microbiology Laboratory	
CHEM 300	Bio-Organic Chemistry	
& CHEM 301	and Bio-Organic Chemistry Laboratory	
Select one (of two) physiology	options	
HUM BIOL 360 & HUM BIOL 361	Exercise Physiology and Human Physiology Lab - Exercise and Metabolism	
or HUM BIOL 402	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	Nutrigenomics and Advanced Nutrient Metabolism	
NUT SCI 485	Medical Nutrition Therapy I: An Integrative and Functional Approach	

May be satisfied with an ACT English score of 32 or higher

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NUT SCI 487 **Nutritional Science Seminar**

Choose one of the following options:

NUT SCI 327 **Nutritional Biochemistry**

CHEM 330 Biochemistry

& CHEM 331 and Biochemistry Laboratory

Additional Courses (NOT REQUIRED) to Consider

NUT SCI 495 Teaching Assistantship

NUT SCI 497 Internship

NUT SCI 498 Independent Study

Total Credits 80-84

s/Dietetics Emphasis.

General Human Biology

Code	Title	Credits
Supporting Courses		30-35
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 ¹	
Choose one (of 2) Anatomy and	Physiology options:	
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	
Choose one of the following 3 of	options:	
COMM 133	Fundamentals of Public Address	
or COMM 166	Fundamentals of Interpersonal Communication	
or		
Any literature course, e.g., ENGL	ISH 104 Introduction to Literature	
or		
One year of any college-level fore	eign language	
Upper-Level Courses		30-31

Upper-Level Courses

Organic Chemistry - choose one option

CHEM 300 Bio-Organic Chemistry

& CHEM 301 and Bio-Organic Chemistry Laboratory

OR

CHEM 302 Organic Chemistry I

& CHEM 304 and Organic Chemistry Laboratory I

Choose one course from three of the four areas:

Genetics

BIOLOGY 303 Genetics or HUM BIOL 310 **Human Genetics**

Physiology (one of two options)

HUM BIOL 402 Human Physiology

Satisfied for students with an ACT English score of 32 or higher.

HUM BIOL 360	Exercise Physiology	
Nutrition		
NUT SCI 300	Human Nutrition	
Cell Biology		
BIOLOGY 323	Principles of Microbiology	
or BIOLOGY 307	Cell Biology	
Additional Courses 2,3		
any 300-level HUM BIOL cours	se	
any 400-level HUM BIOL cours	6e	
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 323	Principles of Microbiology	
BIOLOGY 324	Principles of Microbiology Laboratory	
BIOLOGY 340	Comparative Anatomy of Vertebrates	
BIOLOGY 345	Animal Behavior	
BIOLOGY 346	Comparative Physiology	
BIOLOGY 402	Advanced Microbiology	
BIOLOGY 407	Molecular Biology	
BIOLOGY 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	Nutrigenomics and Advanced Nutrient Metabolism	
NUT SCI 486	Medical Nutrition Therapy II: An Integrative and Functional Approach	
Only) ONE Psychology courses r	may be used toward upper-level requirements	
PSYCH 308	Physiological Psychology	
PSYCH 435	Psychopathology	
PSYCH 450	Health Psychology	

Total Credits 60-66

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.

Satisfied with an ACT English score of 32 or higher

Select upper-level courses with assistance of a faculty adviser. A maximum of <u>one</u> PSYCH course can be applied to the major.

Verify 3 courses are Laboratory Elective

Supporting Courses Supporting Courses Supporting Courses Supporting Courses Site Supporting Course Site Supporting Course Site Supporting Course Site Supporting Course	0.1.	TVI.	0
BIOLOGY 201 Principles of Biology: Callular and Molecular Processes A BIOLOGY 202 and Principles of Biology Lab: Cellular and Molecular Processes CHEM 207 Laboratory Statey CHEM 213 Principles of Chemistry II A CHEM 213 And Principles of Chemistry II A CHEM 214 Principles of Chemistry II A CHEM 215 Principles of Chemistry II A CHEM 214 And Principles of Chemistry II A CHEM 215 And Principles of Chemistry II A CHEM 216 And Principles of Chemistry II A CHEM 216 And Principles of Chemistry II A CHEM 216 And Principles of Chemistry II A CHEM 217 And Principles of Chemistry II A CHEM 218 And Principles of Chemistry II A CHEM 219 And	Code	Title	Credits
8. BIOLOGY 202 and Principles of Biology Lab: Cellular and Molecular Processes CHEM 207 Laboratory Safety CHEM 211 principles of Chemistry I 8. CHEM 212 principles of Chemistry I 9. CHEM 213 and Principles of Chemistry I 9. CHEM 214 and Principles of Chemistry I 9. CHEM 214 and Principles of Chemistry I Laboratory WF 105 Research and Rhesion' Select one (of 3) options: COMM 133 Fundamentals of Public Address or COMM 166 Fundamentals of Interpersonal Communication or Any Interature 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 201 Anatomy and Physiology Options: HUM BIOL 210 Anatomy and Physiology I 8. HUM BIOL 221 Anatomy and Physiology I 8. HUM BIOL 222 Anatomy and Physiology I 8. HUM BIOL 225 Anatomy and Physiology I 8. HUM BIOL 226 Anatomy and Physiology I 8. HUM BIOL 227 Anatomy and Physiology I 8. HUM BIOL 228 Anatomy and Physiology I 8. HUM BIOL 250 Anatomy and Physiology I 8. HUM BIOL 260 Anatomy and Physiology I 8. HUM BIOL 300 Anatomy and Physiology I 8. HUM BIOL 301 Anatomy and Physiology I 8. HUM BIOL 302 Anatomy and Physiology I 8. HUM BIOL 303 Anatomy and Physiology I 8. HUM BIOL 304 Anatomy and Physiology I 8. HUM BIOL 305 Anatomy and Physiology I 8. HUM BIOL 306 Anatomy and Physiology I 8. HUM BIOL 307 Anatomy and Physiology I 8. HUM BIOL 308 Anatomy and Physiology I 8. HUM BIOL 309 Anatomy and Physiology I 8. HUM BIOL 301 Anatomy and Physiology I 8. HUM BIOL 301 Human Anatomy Anatomy Laboratomy 8. HUM BIOL 301 Human Anatomy Laboratomy 8. HUM BIOL 302 Epidemiology 8. HUM BIOL 303 Human Anatomy Laboratomy 8. HUM BIOL 404 Human Physiology I 8. HUM BIOL 405 Anatomy Laboratomy 8. HUM BIOL 405 Anatomy Laboratomy 8. HUM BIOL 406 Cancer Biology 8. HUM BIOL 407 Anatomy Laboratomy 8. HUM BIOL 407 Anatomy Anatomy Laboratomy 8. HUM BIOL	•	Drive sinder of Dielem v. Callular and Malagular Dragger	31-34
CHEM 211 A Principles of Chemistry I A CHEM 213 and Principles of Chemistry I Laboratory CHEM 212 Principles of Chemistry I Laboratory WF 105 Research and Rebotio Chemistry II Laboratory WF 105 Principles of Chemistry II Laboratory WF 105 Research and Rebotio Chemistry II Laboratory WF 105 Principles of Microbiology WF 105 Prin		•	
& CHEM 213 and Principles of Chemistry II aboratory CHEM 214 and Principles of Chemistry II aboratory WF 105 Research and Rhetoric ¹ Select one (of 3) options: COMM 133 Fundamentals of Public Address or COMM 168 Fundamentals of Interpersonal Communication or Any ilterature 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 Anatomy and Physiology HUM BIOL 251 Anatomy and Physiology II HUM BIOL 251 Anatomy and Physiology II HUM BIOL 252 Anatomy and Physiology II Math MATH 104 Precalculus MATH 260 Introduction yand Physiology II Math MATH 260 Introductory Statistics Upper-Level Courses Select one course from three of the four areas: Genetics BIOLOCY 303 Genetics or HUM BIOL 310 Human Genetics Physiology HUM BIOL 361 Human Genetics Physiology HUM BIOL 362 Human Physiology HUM BIOL 363 Exercise Physiology HUM BIOL 363 Human Genetics Nutrition N	CHEM 207	Laboratory Safety	
8 CHEM 214 and Principles of Chemistry II Laboratory WF 105 Research and Rhetoric ¹ Select one (of 3) options: 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 college-level foreign language Select one (of 2) Anatomy and Physiology options: HUM BIOL 240 Anatomy and Physiology Options: HUM BIOL 241 Anatomy and Physiology Lab or BOTH HUM BIOL 221 Anatomy and Physiology II BHUM BIOL 222 Anatomy and Physiology II BHUM BIOL 222 Anatomy and Physiology II MATH 104 Precalculus MATH 260 Introductory Statistics Upper-Level Courses Select one course from three of the four areas: Genetics BIOLOGY 303 Genetics BIOLOGY 303 Genetics BIOLOGY 303 Human Genetics Physiology HUM BIOL 310 Human Physiology HUM BIOL 361 Anatomy and Physiology Lab - Exercise and Metabolitism Nutrition NUT SCI 300 Human Nutrition Cell Biology BIOLOGY 307 Cell Biology Coll Biology BIOLOGY 308 Reproductive Biology BIOLOGY 309 Reproductive Biology Coll Biology BIOLOGY 301 Reproductive Biology HUM BIOL 310 Human Genetics HUM BIOL 311 Human Genetics HUM BIOL 312 Reproductive Biology BIOLOGY 323 Principles of Microbiology Or Coll Biology BIOLOGY 324 Reproductive Biology BIOLOGY 325 Epidemiology HUM BIOL 316 Human Genetics HUM BIOL 317 Human Genetics HUM BIOL 318 Reproductive Biology BIOLOGY 329 Epidemiology HUM BIOL 321 Human Physiology Lab - Exercise and Metabolism HUM BIOL 331 Human Genetics HUM BIOL 331 Human Genetics HUM BIOL 341 Human Physiology Lab - Exercise and Metabolism HUM BIOL 341 Human Physiology Lab - Exercise and Metabolism HUM BIOL 341 Human Physiology Lab - Exercise and Metabolism HUM BIOL 443 Human Physiology Lab - Exercise and Metabolism HUM BIOL 443 Human Physiology Lab - Exercise and Metabolism HUM BIOL 443 Human Physiology Lab - Exercise and Metabolism			
WF 105 Research and Rhetoric ¹ Select one (of 3) options: COMM 133 Fundamentals of Public Address or COMM 186 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 231 Anatomy and Physiology Uab or BTH HUM BIOL 221 Anatomy and Physiology II Math BIOL 222 and BIOLOGY 303 Introductory Statistics Upper-Level Courses Solect 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 Exercise Physiology HUM BIOL 361 and Human Physiology Lab - Exercise and Metabolism Nutrition Nutri			
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 college-level foreign language Select one (of 2) Anatomy and Physiology options: HUM BIOL 240 Anatomy and Physiology Lab or BOTH HUM BIOL 221 Anatomy and Physiology I BHUM BIOL 222 Anatomy and Physiology I BHUM BIOL 223 Anatomy and Physiology I BHUM BIOL 224 Anatomy and Physiology I BHUM BIOL 225 Anatomy and Physiology I BHUM BIOL 226 Anatomy and Physiology I BHUM BIOL 227 Anatomy and Physiology I BHUM BIOL 227 Anatomy and Physiology I BHUM BIOL 228 Anatomy and Physiology I BHUM BIOL 239 Anatomy and Physiology I BHUM BIOL 240 Anatomy and Physiology I BHUM BIOL 350 Anatomy and Physiology I BHUM BIOL 360 Anatomy and Physiology BHUM BIOL 360 Anatomy and Physiology Lab - Exercise and Metabolism Nutrition NUT SCI 300 Human Physiology BHUM BIOL 361 Human Physiology BHUM BIOL 361 Human Physiology BHUM BIOL 361 Human Physiology BHUM BIOL 363 Principles of Microbiology Or BIOLOGY 303 Principles of Microbiology CRIB BIOLOGY 307 Cell Biology Choose 6 credits of the following elective courses: PHUM BIOL 361 Human Genetics HUM BIOL 363 Reproductive Biology HUM BIOL 364 Human Anatomy Laboratory HUM BIOL 365 Kinesiology HUM BIOL 365 Human Anatomy Laboratory HUM BIOL 365 Human Anatomy Laboratory HUM BIOL 366 Human Physiology Lab - Exercise and Metabolism HUM BIOL 361 Human Physiology Lab - Exercise and Metabolism HUM BIOL 461 Human Physiology Lab - Exercise and Metabolism HUM BIOL 461 Human Physiology Lab - Exercise and Metabolism HUM BIOL 462 Immunology HUM BIOL 462 Cancer Biology	WF 105		
or COMM 166 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 Anatomy and Physiology Lab or BOTH HUM BIOL 221 Anatomy and Physiology II ### ANATOMY AND Physiology II ### ANATOMY AND Physiology II ### ANATOMY	Select one (of 3) options:		
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 Anatomy and Physiology Lab or BOTH HUM BIOL 221 Anatomy and Physiology Lab or BOTH HUM BIOL 222 Anatomy and Physiology II Math MATH 104 Precalculus MATH 260 Introductory Statistics Upper-Level Courses Select one course from three of the four areas: Genetics Genetics Genetics or HUM BIOL 310 Human Cenetics Physiology HUM BIOL 402 Hum BIOL 402 Human Physiology Lab - Exercise and Metabolism Nutrition Nutrition NUT SCI 300 Human Nutrition Cell Biology BIOLOGY 307 Cell Biology Choose 6 credits of the following elective courses: Fillow Science and Religion: Spirit of Inquiry HUM BIOL 311 Science and Religion: Spirit of Inquiry HUM BIOL 322 Epidemiology HUM BIOL 331 Science and Religion: Spirit of Inquiry HUM BIOL 341 Hum BIOL 341 Human Physiology Leb - Exercise and Metabolism HUM BIOL 341 Hum BIOL 343 Hum BIOL 341 Hum BIOL 343 Hum BIOL 342 Hum BIOL 343 Hum BIOL 344 Hum BIOL 345 Hum BIOL 345 Hum BIOL 345 Hum BIOL 346 Hum BIOL 347 Hum BIOL 348 Hum BIOL 348 Hum BIOL 349 Hum BIOL 341 Hum BIOL 341 Hum BIOL 341 Hum BIOL 342 Hum BIOL 343 Hum BIOL 343 Hum BIOL 344 Hum BIOL 345 Hum BIOL 345 Hum BIOL 345 Hum BIOL 346 Hum BIOL 347 Hum BIOL 346 Hum BIOL 347 Hum BIOL 348 Hum BIOL 348 Hum BIOL 349 Hum BIOL 349 Hum BIOL 340 Hum BIOL 341 Hum BIOL 341 Hum BIOL 345 Hum BI	COMM 133	Fundamentals of Public Address	
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 Anatomy and Physiology Lab or BOTH HUM BIOL 221 Anatomy and Physiology I HUM BIOL 222 Anatomy and Physiology I HUM BIOL 222 Anatomy and Physiology II Math MATH 104 Precalculus MATH 260 Introductory Statistics Upper-Level Courses Select one course from three of the four areas: Genetics BIOLOGY 303 Genetics Anatomy and Physiology HUM BIOL 310 Human Genetics Physiology HUM BIOL 302 Human Genetics Physiology HUM BIOL 303 And Human Physiology Lab - Exercise and Metabolism Nutrition Nutrition Nutrition Call Biology BIOLOGY 307 Cell Biology Choose 6 credits of the following elective courses: 2 HUM BIOL 318 Reproductive Biology HUM BIOL 319 Human Genetics HUM BIOL 311 Human Genetics HUM BIOL 313 Secience and Religion: Spirit of Inquiry HUM BIOL 314 Hum BIOL 315 Kinesiology HUM BIOL 315 Hum BIOL 316 Hum BIOL 317 Hum BIOL 318 Reproductive Biology HUM BIOL 319 HUM BIOL 311 Human Anatomy Laboratory HUM BIOL 311 Human Anatomy Laboratory HUM BIOL 313 Neurobiology HUM BIOL 314 Human Physiology Lab - Exercise and Metabolism HUM BIOL 315 Hum BIOL 316 Hum BIOL 316 Hum BIOL 317 Hum BIOL 317 Hum BIOL 318 Reproductive Biology HUM BIOL 319 HUM BIOL 311 Hum BIOL 312 Hum BIOL 313 Hum BIOL 313 Hum BIOL 314 Hum BIOL 315 Hum BIOL 315 Hum BIOL 315 Hum BIOL 316 Hum BIOL 316 Hum BIOL 317 Hum BIOL 317 Hum BIOL 318 Hum BIOL 319 Hum BIOL 319 Hum BIOL 322 Hum BIOL 321 Hum BIOL 322 Hum BIOL 323 Hum BIOL 323 Hum BIOL 324 Hum BIOL 325 Hum BIO	or COMM 166	Fundamentals of Interpersonal Communication	
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HUM BIOL 413 Neurobiology HUM BIOL 422 Immunology HUM BIOL 426 Cancer Biology	HUM BIOL 361	Human Physiology Lab - Exercise and Metabolism	
HUM BIOL 422 Immunology HUM BIOL 426 Cancer Biology	HUM BIOL 401	Art and Science	
HUM BIOL 422 Immunology HUM BIOL 426 Cancer Biology	HUM BIOL 413	Neurobiology	
	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 323	Principles of Microbiology
BIOLOGY 324	Principles of Microbiology Laboratory
BIOLOGY 340	Comparative Anatomy of Vertebrates
BIOLOGY 345	Animal Behavior
BIOLOGY 346	Comparative Physiology
BIOLOGY 402	Advanced Microbiology
BIOLOGY 407	Molecular Biology
BIOLOGY 408	Molecular Biology Laboratory
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	Nutrigenomics and Advanced Nutrient Metabolism
NUT SCI 486	Medical Nutrition Therapy II: An Integrative and Functional Approach
(Only) ONE Psychology course may	be used for upper level electives.
PSYCH 308	Physiological Psychology
PSYCH 435	Psychopathology
PSYCH 450	Health Psychology
Cytotechnology Internship	
HUM BIOL 497	Internship ³

Total Credits 84-88

Satisfied for students with an ACT English score of 32 or higher.

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.

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.