# **Human Biology Curriculum Guides**

The following are curriculum guides for the four-year Human Biology degree program and is subject to change without notice. Students should consult a Human Biology program advisor to ensure that they have the most accurate and up-to-date information available about a particular four-year degree option.

- Human Biology Major with Exercise Science Emphasis Curriculum Guide
- Human Biology Major with Health Science Emphasis Curriculum Guide
- · Human Biology Major with Nutritional Sciences / Dietetics Emphasis Curriculum Guide
- Human Biology Major with General Emphasis Curriculum Guide
- · Human Biology Major with Cytotechnology Emphasis Curriculum Guide

#### Human Biology Major with Exercise Science Emphasis

An example: Four year plan for Human Biology Major with Exercise Science Emphasis

This is a representative plan. Check with your advisor to see that your plan meets the requirements for this emphasis.

Course	Title	Credits
Freshman		
Fall		
BIOLOGY 201	Principles of Biology: Cellular and Molecular Processes	4
& BIOLOGY 202	and Principles of Biology Lab: Cellular and Molecular Processes	
CHEM 207	Laboratory Safety	1
CHEM 211	Principles of Chemistry I	5
& CHEM 213	and Principles of Chemistry I Laboratory	
MATH 104	Precalculus ( if needed or First Year Seminar)	4
	Credits	14
Spring		
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory	5
HUM BIOL 240	Anatomy and Physiology	4
HUM BIOL 241	Anatomy and Physiology Lab	1
MATH 260	Introductory Statistics	4
WF 105	Research and Rhetoric	3
	Credits	17
Sophomore		
Fall		
COMM 133 or ENGLISH 104	Fundamentals of Public Address (or Modern Language) or Introduction to Literature	3
HUM BIOL 351	Kinesioloav	4
HUM BIOL 116	First Aid and Emergency Care Procedures	3
General Ed		3
General Ed		3
	Credits	16
Spring		
HUM BIOL 333	Principles of Sports Physiology	3
Modern Language (if using this for requirement) or	General Ed	3
General Ed		3
General Ed		3
General Ed		3
Elective		3
	Credits	18
Junior		
Fall		
BIOLOGY 303	Genetics	3
or BIOLOGY 307	or Cell Biology	
or HUM BIOL 310	or Human Genetics	
HUM BIOL 360	Exercise Physiology	4
& HUM BIOL 361	and Human Physiology Lab - Exercise and Metabolism	

Human Biology Upper Level Elective		3
General Ed		3
Elective		3
	Credits	16
Spring		
HUM BIOL 210	Prevention and Treatment of Athletic Injuries	3
NUT SCI 300	Human Nutrition	3
General Ed		3
Elective		3
Elective		3
	Credits	15
Senior		
Fall		
Human Biology Upper Level Elective		3
Human Biology Upper Level Lab		1-2
General Ed		3
General Ed		3
Elective		3
	Credits	13-14
Spring		
Human Biology Upper Level Elective		3
Capstone		1-3
General Ed		3
Elective		3
Elective		3
	Credits	13-15
	Total Credits	122-125

## Human Biology Major with Health Science Emphasis

An example: Four year plan for Human Biology Major with Health Science Emphasis

This is a representative plan. Check with your advisor to see that your plan meets the requirements for this emphasis.

Course	Title	Credits
Freshman		
Fall		
BIOLOGY 201	Principles of Biology: Cellular and Molecular Processes	4
& BIOLOGY 202	and Principles of Biology Lab: Cellular and Molecular Processes	
CHEM 207	Laboratory Safety	1
CHEM 211	Principles of Chemistry I	5
& CHEM 213	and Principles of Chemistry I Laboratory	
MATH 104	Precalculus	4
	Credits	14
Spring		
CHEM 212	Principles of Chemistry II	5
& CHEM 214	and Principles of Chemistry II Laboratory	
HUM BIOL 240	Anatomy and Physiology	4
HUM BIOL 241	Anatomy and Physiology Lab	1
MATH 260	Introductory Statistics	4
WF 105	Research and Rhetoric	3
	Credits	17
Sophomore		
Fall		
BIOLOGY 323	Principles of Microbiology	3
BIOLOGY 324	Principles of Microbiology Laboratory	1
CHEM 302	Organic Chemistry I	4
& CHEM 304	and Organic Chemistry Laboratory I	
COMM 133	Fundamentals of Public Address (or Modern Language)	3
or ENGLISH 104	or Introduction to Literature	

General Ed		3
	Credits	14
Spring		
BIOLOGY 303	Genetics	3
or HUM BIOL 310	or Human Genetics	
CHEM 303	Organic Chemistry II	4
& CHEM 305	and Organic Chemistry Laboratory II	
Modern Language (if using this for req	quirement) or General Ed	3
Elective		3
	Credits	13
Junior		
Fall		
CHEM 330	Biochemistry	3
HUM BIOL 402	Human Physiology	3
PHYSICS 103	Fundamentals of Physics I	4
Human Biology Upper Level Lab		1-2
General Ed		3
	Credits	14-15
Spring		
NUT SCI 300	Human Nutrition	3
PHYSICS 104	Fundamentals of Physics II	4
General Ed	·	3
Elective		3
	Credits	13
Senior		
Fall		
Human Biology Upper Level Elective		3
Human Biology Upper Level Lab		1-2
General Ed		3
General Ed		3
Elective		3
Elective		3
	Cradite	16-17
Spring	oreans	10-17
Human Biology Lipper Lovel Elective		2
		J
Coporal Ed		
		3
Elective		3
	Oradita	3
	Credits	13-15
	Total Credits	114-118

#### Human Biology Major with Nutritional Sciences / Dietetics Emphasis

An example: Four year plan for Human Biology Major with Nutritional Sciences/Dietetics Emphasis

This is a representative plan. Check with your advisor to see that you meet the requirements for this emphasis.

Meet with your faculty mentor to see if you may be a candidate for the accelerated program.

120 credits necessary to graduate.

Note: Students must have a grade of C or better in CHEM 211 and BIO 201 in order to declare their major in Nutritional Sciences/Dietetics Emphasis.

Course	Title	Credits
Freshman		
Fall		
NUT SCI 201	Survey of Nutrition Related Professions	1
BIOLOGY 201	Principles of Biology: Cellular and Molecular Processes	3
BIOLOGY 202	Principles of Biology Lab: Cellular and Molecular Processes	1
CHEM 207	Laboratory Safety	1
MATH 104	Precalculus (if needed)	4

	First Yoor Somingr	2
101 301 196		3
	Creats	13
Spring		0
WF 100	First Year writing (ir needed)	3
PSYCH 102	Introduction to Psychology (or Introduction to Lifespan Development)	3
CHEM 211	Principles of Chemistry I	4
CHEM 213	Principles of Chemistry I Laboratory	1
Gen Ed		3
	Credits	14
Sophomore		
Fall		
NUT SCI 212	Science of Food Preparation	4
WF 105	Research and Rhetoric	3
CHEM 212	Principles of Chemistry II	4
CHEM 214	Principles of Chemistry II Laboratory	1
General Ed		3
	Credits	15
Spring		
MATH 260	Introductory Statistics	4
HUM BIOL 240	Anatomy and Physiology	4
HUM BIOL 241	Anatomy and Physiology Lab	1
NUT SCI 300	Human Nutrition	3
General Ed		3
	Credits	15
Junior		
Fall		
HUM BIOL 323	Medical Microhiology	3
HUM BIOL 326	Medical Microbiology	1
HUM BIOL 310	Human Genetics (or Genetics)	3
COMM 133		3
General Ed		3
General Ed		3
	Canalia	<u></u>
Caring	Creats	10
Spring	Ourselfer Freed Development Over inc	
	Quantity Food Production and Service	4
	Lire Cycle Nutrition	3
	Bio-Organic Chemistry	3
CHEM 301	Bio-Organic Chemistry Laboratory	1
General Ed		3
General Ed		3
	Credits	17
Senior		
Fall		
NUT SCI 327	Nutritional Biochemistry	4
NUT SCI 421	Community and Public Health Nutrition (NUT SCI 621 for Accelerated Students)	3
NUT SCI 485	Medical Nutrition Therapy I: An Integrative and Functional Approach (NUT SCI 685 for Accelerated Students)	3
NUT SCI 487	Nutritional Science Seminar	1
Elective if needed		4
	Credits	15
Spring		
NUT SCI 427	Nutrigenomics and Advanced Nutrient Metabolism (NUT SCI 627 for Accelerated Students)	3
NUT SCI 486	Medical Nutrition Therapy II: An Integrative and Functional Approach (NUT SCI 686 for Accelerated Students)	3
HUM BIOL 402	Human Physiology (or HUM BIOL 360/361 - fall only )	3
Elective if needed		3
Elective if needed		3
	Credits	15
	Total Credits	120

## Human Biology Major with General Emphasis

An example: Four year plan for Human Biology Major with General Human Biology Emphasis

This is a representative plan. Check with your advisor to see that your plan meets the requirements for this emphasis.

Course	Title	Credits
Freshman		
Fall		
BIOLOGY 201	Principles of Biology: Cellular and Molecular Processes	4
& BIOLOGY 202	and Principles of Biology Lab: Cellular and Molecular Processes	
CHEM 207	Laboratory Safety	1
CHEM 211	Principles of Chemistry I	5
& CHEM 213	and Principles of Chemistry I Laboratory	
MATH 104	Precalculus (if needed or First Year Seminar)	4
	Credits	14
Spring		
CHEM 212	Principles of Chemistry II	5
& CHEM 214	and Principles of Chemistry II Laboratory	
HUM BIOL 240	Anatomy and Physiology	4
HUM BIOL 241	Anatomy and Physiology Lab	1
MATH 260	Introductory Statistics	4
WF 105	Research and Rhetoric	3
	Credits	17
Sophomore		
Fall		
BIOLOGY 303	Genetics	3
or HUM BIOL 310	or Human Genetics	
COMM 133	Fundamentals of Public Address (or Modern Language)	3
or ENGLISH 104	or introduction to Literature	0
General Ed		3
Elective		3
	Credits	12
Spring		
NUT SCI 300	Human Nutrition	3
Human Biology Upper Level Elective		3
Modern Language (if using this for requiremen	t) or General Ed	3
General Ed		3
		3
	Credits	15
Junior		
BIOLOGY 307	Cell Biology	4
Human Biology Upper Level Elective		3
Human Biology Upper Level Lab		1-2
General Ed		3
Elective		3
	Credits	14-15
Spring		14-13
	Evercise Physiology	4
& HUM BIOL 361	and Human Physiology Lab - Exercise and Metabolism (or HUM BIOL 402)	-
Human Biology Upper Level Elective		3
General Ed		3
Elective		3
Elective		3
	Credits	16
Senior		
Fall		
Human Biology Upper Level Elective		3
Human Biology Upper Level Lab		1-2
General Ed		3
General Ed		3
Elective		3

Elective		3
	Credits	16-17
Spring		
Human Biology Upper Level Elective		3
Human Biology Upper Level Lab		1-2
Capstone		1-3
General Ed		3
Elective		3
Elective		3
	Credits	14-17
	Total Credits	118-123

### Human Biology Major with Cytotechnology Emphasis

An example: Four year plan for Human Biology Major with Cytotechnology Emphasis

This is a representative plan. Check with your advisor to see that your plan meets the requirements for this emphasis.

Course	Title	Credits
Freshman		
Fall		
BIOLOGY 201	Principles of Biology: Cellular and Molecular Processes	4
& BIOLOGY 202	and Principles of Biology Lab: Cellular and Molecular Processes	
CHEM 207	Laboratory Safety	1
CHEM 211	Principles of Chemistry I	5
& CHEM 213	and Principles of Chemistry I Laboratory	
MATH 104	Precalculus (if needed or First Year Seminar)	4
WF 105	Research and Rhetoric	3
	Credits	17
Spring		
CHEM 212	Principles of Chemistry II	5
& CHEM 214	and Principles of Chemistry II Laboratory	
HUM BIOL 240	Anatomy and Physiology	4
HUM BIOL 241	Anatomy and Physiology Lab	1
MATH 260	Introductory Statistics	4
General Ed		3
	Credits	17
Sophomore		
Fall		
BIOLOGY 303	Genetics	3
or HUM BIOL 310	or Human Genetics	
ENGLISH 104	Introduction to Literature	3
General Ed		3
General Ed		3
	Credits	12
Spring		
NUT SCI 300	Human Nutrition	3
General Ed		3
General Ed		3
General Ed		3
Elective		3
	Credits	15
Junior		
Fall		
HUM BIOL 402	Human Physiology	3
Human Biology Upper Level Elective		3
General Ed		3
Elective		3
Elective		3
	Credits	15

Spring		
Human Biology Upper Level Elective		3
General Ed		3
General Ed		3
Elective		3
Elective		3
	Credits	15
Senior		
Fall		
Cytotechnology Internship		15
	Credits	15
Spring		
Cytotechnology Internship		15
	Credits	15
	Total Credits	121