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.

120 credits necessary to graduate.

Course	Title	Credits
Freshman		
Fall		
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	4
CHEM 207	Laboratory Safety	1
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	5
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	Kinesiology	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 or BIOLOGY 307 or HUM BIOL 310	Genetics or Cell Biology or Human Genetics	3
HUM BIOL 360 & HUM BIOL 361	Exercise Physiology and Human Physiology Lab - Exercise and Metabolism	4

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.

120 credits necessary to graduate.

Course	Title	Credits
Freshman		
Fall		
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	4
CHEM 207	Laboratory Safety	1
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	5
MATH 104	Precalculus	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		
BIOLOGY 323	Principles of Microbiology	3
BIOLOGY 324	Principles of Microbiology Laboratory	1
CHEM 302 & CHEM 304	Organic Chemistry I and Organic Chemistry Laboratory I	4
COMM 133 or ENGLISH 104	Fundamentals of Public Address (or Modern Language) or Introduction to Literature	3

General Ed		3
	Credits	**14**
Spring		
BIOLOGY 303 or HUM BIOL 310	Genetics or Human Genetics	3
CHEM 303 & CHEM 305	Organic Chemistry II and Organic Chemistry Laboratory II	4
Modern Language (if using this for requirement) 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
	Credits	**16-17**
Spring		
Human Biology Upper Level Elective		3
Capstone		1-3
General Ed		3
Elective		3
Elective		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

NUT SCI 198	First Year Seminar	3
	Credits	**13**
Spring		
WF 100	First Year Writing (if 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 Microbiology	3
HUM BIOL 326	Medical Microbiology Lab	1
HUM BIOL 310	Human Genetics (or Genetics)	3
COMM 133	Fundamentals of Public Address	3
General Ed		3
General Ed		3
	Credits	**16**
Spring		
NUT SCI 312	Quantity Food Production and Service	4
NUT SCI 350	Life Cycle Nutrition	3
CHEM 300	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.

120 credits necessary to graduate.

Course	Title	Credits
Freshman		
Fall		
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	4
CHEM 207	Laboratory Safety	1
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	5
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		
BIOLOGY 303 or HUM BIOL 310	Genetics or Human Genetics	3
COMM 133 or ENGLISH 104	Fundamentals of Public Address (or Modern Language) or Introduction to Literature	3
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 requirement) or General Ed		3
General Ed		3
Elective		3
	Credits	**15**
Junior		
Fall		
BIOLOGY 307 & BIOLOGY 308	Cell Biology and Cell Biology Laboratory (or BIOLOGY 302)	4
Human Biology Upper Level Elective		3
Human Biology Upper Level Lab		1-2
General Ed		3
Elective		3
	Credits	**14-15**
Spring		
HUM BIOL 360 & HUM BIOL 361	Exercise Physiology and Human Physiology Lab - Exercise and Metabolism (or HUM BIOL 402)	4
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.

120 credits necessary to graduate.

Course	Title	Credits
Freshman		
Fall		
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	4
CHEM 207	Laboratory Safety	1
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	5
MATH 104	Precalculus (if needed or First Year Seminar)	4
WF 105	Research and Rhetoric	3
	Credits	**17**
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
General Ed		3
	Credits	**17**
Sophomore		
Fall		
BIOLOGY 303 or HUM BIOL 310	Genetics or Human Genetics	3
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**