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 & 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

2 Human Biology Curriculum Guides

	Total Credits	122-125
	Credits	13-15
Elective		3
Elective		3
General Ed		3
Capstone		1-3
Human Biology Upper Level Elective		3
Spring	CIANIS	15-14
	Credits	13-14
Elective		3
General Ed		3
General Ed		3
Human Biology Upper Level Elective Human Biology Upper Level Lab		1-2
Human Biology Upper Level Elective		3
Fall		
Senior	Credits	15
	Credits	15
Elective		3
Elective		3
General Ed		3
NUT SCI 300	Human Nutrition	3
	Treatment of Athletic Injuries	
HUM BIOL 210	Prevention and	3
Spring		
	Credits	16
Elective		3
General Ed		3
Human Biology Upper Level Elective		3
	Lab - Exercise and Metabolism	
& HUM BIOL 361	and Human Physiology	
HUM BIOL 360	Exercise Physiology	4
or BIOLOGY 307 or HUM BIOL 310	or Cell Biology or Human Genetics	
BIOLOGY 303	Genetics	3
Fall		
Junior	Credits	18
Elective		3
General Ed		3

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 & 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	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	1
	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	1
	Laboratory	
CHEM 302	Organic Chemistry I	4
& CHEM 304	and Organic Chemistry	
	Laboratory I	
COMM 133	Fundamentals of Public	3
or ENGLISH 104	Address (or Modern	
	Language) or Introduction to	
	Literature	
General Ed		3
	Credits	14
Spring		
BIOLOGY 303	Genetics	3
or HUM BIOL 310	or Human Genetics	0
CHEM 303	Organic Chemistry II	4
& CHEM 305	and Organic Chemistry	
	Laboratory II	
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	5
	I	
Human Biology Upper Level Lab		1-2
General Ed		3
	Credits	15-16
Spring		
NUT SCI 300	Human Nutrition	3
PHYSICS 104	Fundamentals of Physics	5
	Ш	
General Ed		3
Elective		3
	Credits	14
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
		1-3
Capstone		

	Credits Total Credits	13-15
Elective		3
Elective		3
General Ed		3

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 your plan meets the requirements for this emphasis.

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		
BIOLOGY 201	Principles of Biology: Cellular and Molecular	3
BIOLOGY 202	Processes Principles of Biology Lab:	1
	Cellular and Molecular Processes	
CHEM 211	Principles of Chemistry I	4
CHEM 213	Principles of Chemistry I Laboratory	1
MATH 104	Precalculus (if needed) or First Year Seminar)	4
	Credits	13
Spring		
CHEM 212	Principles of Chemistry II	4
CHEM 214	Principles of Chemistry II Laboratory	1
HUM BIOL 240	Anatomy and Physiology	4
HUM BIOL 241	Anatomy and Physiology Lab	1
WF 105	Research and Rhetoric	3
General Ed		3
Sophomore	Credits	16
Fall		
COMM 133	Fundamentals of Public Address	3
MATH 260 or PSYCH 205	Introductory Statistics or Social Science Statistics	4
NUT SCI 300	Human Nutrition	3
General Ed		3
	Credits	13
Spring		
CHEM 300	Bio-Organic Chemistry	3
CHEM 301	Bio-Organic Chemistry Laboratory	1
NUT SCI 201	Survey of Nutrition Related Professions	1
NUT SCI 212	Science of Food Preparation	4
General Ed		3
General Ed		3
	Credits	15

	Total Credits	121
	Credits	16
Elective		3
Elective		3
General Ed	Therapy II: An Integrative and Functional Approach	:
NUT SCI 486	Metabolism Medical Nutrition	2
NUT SCI 427	Nutrigenomics and Advanced Nutrient	3
Spring		
	Credits	16
General Ed Elective		3
General Ed General Ed		3
NUT SCI 487	Nutritional Science Seminar	
	Therapy I: An Integrative and Functional Approach	
NUT SCI 485	Medical Nutrition	:
Fall BIOLOGY 303 or HUM BIOL 310	Genetics or Human Genetics	:
Senior	Credits	17
General Ed	Our dis	:
	Practice	
NUT SCI 350 NUT SCI 402	Life Cycle Nutrition Management in Dietetic	:
NUT SCI 312	Quantity Food Production and Service	2
BIOLOGY 324	Principles of Microbiology Laboratory	
BIOLOGY 323	Principles of Microbiology	:
Spring	Credits	15
General Ed	Credits	:
NUT SCI 421	Community and Public Health Nutrition	4
HUM BIOL 361	Human Physiology Lab - Exercise and Metabolism	
HUM BIOL 360	Exercise Physiology	
& CHEM 331 or NUT SCI 327	or Nutritional Biochemistry	
CHEM 330	Biochemistry	4

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:	4
& BIOLOGY 202	Cellular and Molecular	
	Processes	
	and Principles of Biology	
	Lab: Cellular and	
	Molecular Processes	

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Fall			I
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& BIOLOGY 308 and Cel	Cell Biology	and Cell Biology	SIOLOGY 308
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Human Biology Upper Level Lab General Ed Elective Credits Spring HUM BIOL 360 & Exercis & HUM BIOL 361 Lab - E: Metabo BU Human Biology Upper Level Elective General Ed Elective Elective Elective Senior Fall Human Biology Upper Level Elective Fall Human Biology Upper Level Elective Human Biology Upper Level Elective	dits 14- rcise Physiology Human Physiology - Exercise and abolism (or A BIOL 402) dits	Credits Exercise Physiology and Human Physiology Lab - Exercise and Metabolism (or HUM BIOL 402)	man Biology Upper Level Lab neral Ed ctive ring M BIOL 360 HUM BIOL 361 man Biology Upper Level Elective neral Ed ctive ctive neral Ed man Biology Upper Level Elective man Biology Di Biology B

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 & 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
Junior	Credits	15
Fall		

8 Human Biology Curriculum Guides

	Total Credits	121
	Credits	1:
Cytotechnology Internship		15
Spring	Credita	
	Credits	15
Cytotechnology Internship		15
Fall		
Senior	oreans	15
Elective	Credits	
Elective		3
Elective		3
General Ed		3
General Ed		3
Human Biology Upper Level Elective		3
Spring	Credits	15
Elective		3
Elective		3
General Ed		3
Human Biology Upper Level Elective		3