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

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.

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	
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	1
	Lab	
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	Literature	2
Gerlera 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 requirement) or General Ed	Zazoratory II	3
Modern Language (ii daing this for requirement) or General Ed		
Florting		2
Elective	Condito	3
	Credits	3 13
Junior	Credits	
Junior Fall		13
Junior Fall CHEM 330	Biochemistry	13
Junior Fall CHEM 330 HUM BIOL 402	Biochemistry Human Physiology	3 3
Junior Fall CHEM 330	Biochemistry	13
Junior Fall CHEM 330 HUM BIOL 402 PHYSICS 103	Biochemistry Human Physiology	3 3 5
Junior Fall CHEM 330 HUM BIOL 402 PHYSICS 103 Human Biology Upper Level Lab	Biochemistry Human Physiology	13 3 3 5
Junior Fall CHEM 330 HUM BIOL 402 PHYSICS 103	Biochemistry Human Physiology	13 3 3 5 1-2 3
Junior Fall CHEM 330 HUM BIOL 402 PHYSICS 103 Human Biology Upper Level Lab	Biochemistry Human Physiology	13 3 3 5
Junior Fall CHEM 330 HUM BIOL 402 PHYSICS 103 Human Biology Upper Level Lab	Biochemistry Human Physiology Fundamentals of Physics I	3 3 5 1-2 3
Junior Fall CHEM 330 HUM BIOL 402 PHYSICS 103 Human Biology Upper Level Lab General Ed	Biochemistry Human Physiology Fundamentals of Physics I	13 3 3 5 1-2 3
Junior Fall CHEM 330 HUM BIOL 402 PHYSICS 103 Human Biology Upper Level Lab General Ed Spring	Biochemistry Human Physiology Fundamentals of Physics I Credits	13 3 3 5 1-2 3 15-16
Junior Fall CHEM 330 HUM BIOL 402 PHYSICS 103 Human Biology Upper Level Lab General Ed Spring NUT SCI 300	Biochemistry Human Physiology Fundamentals of Physics I Credits Human Nutrition	13 3 3 5 1-2 3 15-16
Junior Fall CHEM 330 HUM BIOL 402 PHYSICS 103 Human Biology Upper Level Lab General Ed Spring NUT SCI 300	Biochemistry Human Physiology Fundamentals of Physics I Credits Human Nutrition Fundamentals of Physics	13 3 3 5 1-2 3 15-16
Junior Fall CHEM 330 HUM BIOL 402 PHYSICS 103 Human Biology Upper Level Lab General Ed Spring NUT SCI 300 PHYSICS 104	Biochemistry Human Physiology Fundamentals of Physics I Credits Human Nutrition Fundamentals of Physics	13 3 3 5 1-2 3 15-16
Junior Fall CHEM 330 HUM BIOL 402 PHYSICS 103 Human Biology Upper Level Lab General Ed Spring NUT SCI 300 PHYSICS 104 General Ed	Biochemistry Human Physiology Fundamentals of Physics I Credits Human Nutrition Fundamentals of Physics	13 3 3 5 1-2 3 15-16 3 5
Junior Fall CHEM 330 HUM BIOL 402 PHYSICS 103 Human Biology Upper Level Lab General Ed Spring NUT SCI 300 PHYSICS 104 General Ed	Biochemistry Human Physiology Fundamentals of Physics I Credits Human Nutrition Fundamentals of Physics II	13 3 3 5 1-2 3 15-16 3 5
Junior Fall CHEM 330 HUM BIOL 402 PHYSICS 103 Human Biology Upper Level Lab General Ed Spring NUT SCI 300 PHYSICS 104 General Ed Elective	Biochemistry Human Physiology Fundamentals of Physics I Credits Human Nutrition Fundamentals of Physics II	13 3 3 5 1-2 3 15-16 3 5
Junior Fall CHEM 330 HUM BIOL 402 PHYSICS 103 Human Biology Upper Level Lab General Ed Spring NUT SCI 300 PHYSICS 104 General Ed Elective Senior Fall	Biochemistry Human Physiology Fundamentals of Physics I Credits Human Nutrition Fundamentals of Physics II	13 3 3 5 1-2 3 15-16 3 5 3 14
Junior Fall CHEM 330 HUM BIOL 402 PHYSICS 103 Human Biology Upper Level Lab General Ed Spring NUT SCI 300 PHYSICS 104 General Ed Elective Senior Fall Human Biology Upper Level Elective	Biochemistry Human Physiology Fundamentals of Physics I Credits Human Nutrition Fundamentals of Physics II	13 3 3 5 1-2 3 15-16 3 5 3 14
Junior Fall CHEM 330 HUM BIOL 402 PHYSICS 103 Human Biology Upper Level Lab General Ed Spring NUT SCI 300 PHYSICS 104 General Ed Elective Senior Fall Human Biology Upper Level Elective Human Biology Upper Level Lab	Biochemistry Human Physiology Fundamentals of Physics I Credits Human Nutrition Fundamentals of Physics II	13 3 3 5 1-2 3 15-16 3 5 3 14
Junior Fall CHEM 330 HUM BIOL 402 PHYSICS 103 Human Biology Upper Level Lab General Ed Spring NUT SCI 300 PHYSICS 104 General Ed Elective Senior Fall Human Biology Upper Level Elective Human Biology Upper Level Lab General Ed	Biochemistry Human Physiology Fundamentals of Physics I Credits Human Nutrition Fundamentals of Physics II	13 3 3 5 1-2 3 15-16 3 5 3 14 3 1-2 3
Junior Fall CHEM 330 HUM BIOL 402 PHYSICS 103 Human Biology Upper Level Lab General Ed Spring NUT SCI 300 PHYSICS 104 General Ed Elective Senior Fall Human Biology Upper Level Elective Human Biology Upper Level Lab General Ed General Ed General Ed	Biochemistry Human Physiology Fundamentals of Physics I Credits Human Nutrition Fundamentals of Physics II	13 3 3 5 1-2 3 15-16 3 3 14 3 1-2 3 3 3
Junior Fall CHEM 330 HUM BIOL 402 PHYSICS 103 Human Biology Upper Level Lab General Ed Spring NUT SCI 300 PHYSICS 104 General Ed Elective Senior Fall Human Biology Upper Level Elective Human Biology Upper Level Lab General Ed Elective	Biochemistry Human Physiology Fundamentals of Physics I Credits Human Nutrition Fundamentals of Physics II	13 3 3 5 1-2 3 15-16 3 5 3 14 3 1-2 3 3 3 3 3
Junior Fall CHEM 330 HUM BIOL 402 PHYSICS 103 Human Biology Upper Level Lab General Ed Spring NUT SCI 300 PHYSICS 104 General Ed Elective Senior Fall Human Biology Upper Level Elective Human Biology Upper Level Lab General Ed General Ed General Ed	Biochemistry Human Physiology Fundamentals of Physics I Credits Human Nutrition Fundamentals of Physics II Credits	13 3 3 5 1-2 3 15-16 3 5 3 1-2 3 1-2 3 3 3 3 3 3 3 3
Junior Fall CHEM 330 HUM BIOL 402 PHYSICS 103 Human Biology Upper Level Lab General Ed Spring NUT SCI 300 PHYSICS 104 General Ed Elective Senior Fall Human Biology Upper Level Elective Human Biology Upper Level Lab General Ed Elective Senior Fall Human Biology Upper Level Elective Human Biology Upper Level Lab General Ed Elective Elective	Biochemistry Human Physiology Fundamentals of Physics I Credits Human Nutrition Fundamentals of Physics II	13 3 3 5 1-2 3 15-16 3 5 3 14 3 1-2 3 3 3 3 3
Junior Fall CHEM 330 HUM BIOL 402 PHYSICS 103 Human Biology Upper Level Lab General Ed Spring NUT SCI 300 PHYSICS 104 General Ed Elective Senior Fall Human Biology Upper Level Elective Human Biology Upper Level Lab General Ed Elective	Biochemistry Human Physiology Fundamentals of Physics I Credits Human Nutrition Fundamentals of Physics II Credits	13 3 3 5 1-2 3 15-16 3 5 3 1-2 3 1-2 3 3 3 3 3 3 3 3
Junior Fall CHEM 330 HUM BIOL 402 PHYSICS 103 Human Biology Upper Level Lab General Ed Spring NUT SCI 300 PHYSICS 104 General Ed Elective Senior Fall Human Biology Upper Level Elective Human Biology Upper Level Lab General Ed Elective Senior Fall Human Biology Upper Level Elective Human Biology Upper Level Lab General Ed Elective Elective	Biochemistry Human Physiology Fundamentals of Physics I Credits Human Nutrition Fundamentals of Physics II Credits	13 3 3 5 1-2 3 15-16 3 5 3 14 3 1-2 3 3 3 3 3 3 3
Junior Fall CHEM 330 HUM BIOL 402 PHYSICS 103 Human Biology Upper Level Lab General Ed Spring NUT SCI 300 PHYSICS 104 General Ed Elective Senior Fall Human Biology Upper Level Elective Human Biology Upper Level Lab General Ed Elective Senior Fall Human Biology Upper Level Elective Human Biology Upper Level Elective Human Biology Upper Level Lab General Ed Elective Elective Elective	Biochemistry Human Physiology Fundamentals of Physics I Credits Human Nutrition Fundamentals of Physics II Credits	13 3 3 5 1-2 3 15-16 3 5 3 14 3 1-2 3 3 3 16-17

	Total Credits	116-120
	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:	3
	Cellular and Molecular Processes	
BIOLOGY 202	Principles of Biology Lab:	1
	Cellular and Molecular	
CHEM 211	Processes Principles of Chemistry I	4
CHEM 213	Principles of Chemistry I	1
CHEW 213	Laboratory	'
MATH 104	Precalculus (if needed)	4
	or First Year Seminar)	
Spring	Credits	13
Spring CHEM 212	Principles of Chemistry II	4
CHEM 214	Principles of Chemistry II	1
OILM 214	Laboratory	•
HUM BIOL 240	Anatomy and Physiology	4
HUM BIOL 241	Anatomy and Physiology Lab	1
WF 105	Research and Rhetoric	3
General Ed		3
	Credits	16
Sophomore		
Fall		
COMM 133	Fundamentals of Public Address	3
MATH 260	Introductory Statistics	4
or PSYCH 205	or Social Science Statistics	
NUT SCI 300	Human Nutrition	3
General Ed	ridinali radidoli	3
	Credits	13
Spring		
CHEM 300	Bio-Organic Chemistry	3
CHEM 301	Bio-Organic Chemistry	1
	Laboratory	
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

Junior		
Fall		
CHEM 330	Biochemistry	4
& CHEM 331	or Nutritional	
or NUT SCI 327	Biochemistry	
HUM BIOL 360	Exercise Physiology	3
HUM BIOL 361	Human Physiology Lab - Exercise and Metabolism	1
NUT SCI 421	Community and Public Health Nutrition	4
General Ed		3
	Credits	15
Spring		
BIOLOGY 323	Principles of Microbiology	3
BIOLOGY 324	Principles of Microbiology Laboratory	1
NUT SCI 312	Quantity Food Production	4
AULT COLORS	and Service	
NUT SCI 350	Life Cycle Nutrition	3
NUT SCI 402	Management in Dietetic Practice	3
General Ed		3
Senior	Credits	17
Fall		
BIOLOGY 303	Genetics	3
or HUM BIOL 310	or Human Genetics	
NUT SCI 485	Medical Nutrition	3
	Therapy I: an Integrative and Functional Approach	
NUT SCI 487	Nutritional Science	1
	Seminar	
General Ed		3
General Ed		3
Elective		3
	Credits	16
Spring		
NUT SCI 427	Advanced Nutrition and Metabolism	3
NUT SCI 486	Medical Nutrition Therapy II	4
General Ed	тногару п	3
Elective		3
Elective		
		2
Elective	Cradite	3
Elective	Credits Total Credits	16 121

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	
CHEM 207	Laboratory Safety	1

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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	3
	Language) or Introduction to	
	Literature	
General Ed Elective		3
Condition	Credits	12
Spring NUT SCI 300	Human Nutrition	3
Human Biology Upper Level Elective	Human Numuon	3
Modern Language (if using this for requirement) or General Ed		3
General Ed		
		3
		3
Elective	Credits	3 3 15
	Credits	3
Elective	Credits	3
Elective Junior	Credits Cell Biology	3
Junior Fall		3 15
Junior Fall BIOLOGY 307 & BIOLOGY 308 Human Biology Upper Level Elective	Cell Biology and Cell Biology Laboratory (or BIOLOGY	3 15 4
Elective Junior Fall BIOLOGY 307 & BIOLOGY 308 Human Biology Upper Level Elective Human Biology Upper Level Lab	Cell Biology and Cell Biology Laboratory (or BIOLOGY	3 15 4 3 1-2
Junior Fall BIOLOGY 307 & BIOLOGY 308 Human Biology Upper Level Elective Human Biology Upper Level Lab General Ed	Cell Biology and Cell Biology Laboratory (or BIOLOGY	3 15 4 3 1-2 3
Elective Junior Fall BIOLOGY 307 & BIOLOGY 308 Human Biology Upper Level Elective Human Biology Upper Level Lab	Cell Biology and Cell Biology Laboratory (or BIOLOGY 302)	3 15 4 3 1-2 3 3
Elective Junior Fall BIOLOGY 307 & BIOLOGY 308 Human Biology Upper Level Elective Human Biology Upper Level Lab General Ed Elective	Cell Biology and Cell Biology Laboratory (or BIOLOGY	3 15 4 3 1-2 3
Elective Junior Fall BIOLOGY 307 & BIOLOGY 308 Human Biology Upper Level Elective Human Biology Upper Level Lab General Ed Elective Spring	Cell Biology and Cell Biology Laboratory (or BIOLOGY 302)	3 15 4 3 1-2 3 3 14-15
Elective Junior Fall BIOLOGY 307 & BIOLOGY 308 Human Biology Upper Level Elective Human Biology Upper Level Lab General Ed Elective	Cell Biology and Cell Biology Laboratory (or BIOLOGY 302) Credits Exercise Physiology	3 15 4 3 1-2 3 3
Elective Junior Fall BIOLOGY 307 & BIOLOGY 308 Human Biology Upper Level Elective Human Biology Upper Level Lab General Ed Elective Spring HUM BIOL 360	Cell Biology and Cell Biology Laboratory (or BIOLOGY 302)	3 15 4 3 1-2 3 3 14-15
Elective Junior Fall BIOLOGY 307 & BIOLOGY 308 Human Biology Upper Level Elective Human Biology Upper Level Lab General Ed Elective Spring HUM BIOL 360	Cell Biology and Cell Biology Laboratory (or BIOLOGY 302) Credits Exercise Physiology and Human Physiology Lab - Exercise and Metabolism (or	3 15 4 3 1-2 3 3 14-15
Elective Junior Fall BIOLOGY 307 & BIOLOGY 308 Human Biology Upper Level Elective Human Biology Upper Level Lab General Ed Elective Spring HUM BIOL 360 & HUM BIOL 361	Cell Biology and Cell Biology Laboratory (or BIOLOGY 302) Credits Exercise Physiology and Human Physiology Lab - Exercise and	3 15 4 3 1-2 3 3 14-15
Elective Junior Fall BIOLOGY 307 & BIOLOGY 308 Human Biology Upper Level Elective Human Biology Upper Level Lab General Ed Elective Spring HUM BIOL 360 & HUM BIOL 361 Human Biology Upper Level Elective	Cell Biology and Cell Biology Laboratory (or BIOLOGY 302) Credits Exercise Physiology and Human Physiology Lab - Exercise and Metabolism (or	3 15 4 4 3 1-2 3 3 14-15
Elective Junior Fall BIOLOGY 307 & BIOLOGY 308 Human Biology Upper Level Elective Human Biology Upper Level Lab General Ed Elective Spring HUM BIOL 360 & HUM BIOL 361 Human Biology Upper Level Elective General Ed	Cell Biology and Cell Biology Laboratory (or BIOLOGY 302) Credits Exercise Physiology and Human Physiology Lab - Exercise and Metabolism (or	3 15 4 3 1-2 3 3 14-15 4
Elective Junior Fall BIOLOGY 307 & BIOLOGY 308 Human Biology Upper Level Elective Human Biology Upper Level Lab General Ed Elective Spring HUM BIOL 360 & HUM BIOL 361 Human Biology Upper Level Elective General Ed Elective	Cell Biology and Cell Biology Laboratory (or BIOLOGY 302) Credits Exercise Physiology and Human Physiology Lab - Exercise and Metabolism (or	3 15 4 4 3 1-2 3 3 14-15 4
Elective Junior Fall BIOLOGY 307 & BIOLOGY 308 Human Biology Upper Level Elective Human Biology Upper Level Lab General Ed Elective Spring HUM BIOL 360 & HUM BIOL 361 Human Biology Upper Level Elective General Ed	Cell Biology and Cell Biology Laboratory (or BIOLOGY 302) Credits Exercise Physiology and Human Physiology Lab - Exercise and Metabolism (or HUM BIOL 402)	3 15 4 4 3 1-2 3 3 14-15 4
Elective Junior Fall BIOLOGY 307 & BIOLOGY 308 Human Biology Upper Level Elective Human Biology Upper Level Lab General Ed Elective Spring HUM BIOL 360 & HUM BIOL 361 Human Biology Upper Level Elective General Ed Elective	Cell Biology and Cell Biology Laboratory (or BIOLOGY 302) Credits Exercise Physiology and Human Physiology Lab - Exercise and Metabolism (or	3 15 4 4 3 1-2 3 3 14-15 4
Elective Junior Fall BIOLOGY 307 & BIOLOGY 308 Human Biology Upper Level Elective Human Biology Upper Level Lab General Ed Elective Spring HUM BIOL 360 & HUM BIOL 361 Human Biology Upper Level Elective General Ed Elective	Cell Biology and Cell Biology Laboratory (or BIOLOGY 302) Credits Exercise Physiology and Human Physiology Lab - Exercise and Metabolism (or HUM BIOL 402)	3 15 4 4 3 1-2 3 3 14-15 4
Elective Junior Fall BIOLOGY 307 & BIOLOGY 308 Human Biology Upper Level Elective Human Biology Upper Level Lab General Ed Elective Spring HUM BIOL 360 & HUM BIOL 361 Human Biology Upper Level Elective General Ed Elective Elective Senior	Cell Biology and Cell Biology Laboratory (or BIOLOGY 302) Credits Exercise Physiology and Human Physiology Lab - Exercise and Metabolism (or HUM BIOL 402)	3 15 4 4 3 1-2 3 3 14-15 4
Elective Junior Fall BIOLOGY 307 & BIOLOGY 308 Human Biology Upper Level Elective Human Biology Upper Level Lab General Ed Elective Spring HUM BIOL 360 & HUM BIOL 361 Human Biology Upper Level Elective General Ed Elective Fall	Cell Biology and Cell Biology Laboratory (or BIOLOGY 302) Credits Exercise Physiology and Human Physiology Lab - Exercise and Metabolism (or HUM BIOL 402)	3 15 4 3 1-2 3 3 14-15 4 3 3 3 14-16
Elective Junior Fall BIOLOGY 307 & BIOLOGY 308 Human Biology Upper Level Elective Human Biology Upper Level Lab General Ed Elective Spring HUM BIOL 360 & HUM BIOL 361 Human Biology Upper Level Elective General Ed Elective Spring HUM BIOL 361 Human Biology Upper Level Elective General Ed Elective Senior Fall Human Biology Upper Level Elective	Cell Biology and Cell Biology Laboratory (or BIOLOGY 302) Credits Exercise Physiology and Human Physiology Lab - Exercise and Metabolism (or HUM BIOL 402)	3 15 4 3 1-2 3 3 14-15 4 3 3 3 16 3 3 3 3 3 3
Elective Junior Fall BIOLOGY 307 & BIOLOGY 308 Human Biology Upper Level Elective Human Biology Upper Level Lab General Ed Elective Spring HUM BIOL 360 & HUM BIOL 361 Human Biology Upper Level Elective General Ed Elective Senior Fall Human Biology Upper Level Elective Human Biology Upper Level Elective	Cell Biology and Cell Biology Laboratory (or BIOLOGY 302) Credits Exercise Physiology and Human Physiology Lab - Exercise and Metabolism (or HUM BIOL 402)	3 15 4 4 3 1-2 3 3 14-15 4 3 3 3 16 3 1-2

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
	Credits	15
Junior		
Fall		
HUM BIOL 402	Human Physiology	3

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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