

# MAJOR IN NEUROSCIENCE, CELL AND MOLECULAR NEUROSCIENCE CONCENTRATION

## Major Completion Map

### Freshman

Semester 1		Critical	Recommended	AUCC	Credits
LIFE 102	Attributes of Living Systems (GT-SC1)	X		3A	4
CHEM 111	General Chemistry I (GT-SC2)	X		3A	4
CHEM 112	General Chemistry Lab I (GT-SC1)	X		3A	1
CO 150	College Composition (GT-CO2)		X	1A	3
NB 192	Introductory Neuroscience Seminar	X			1
Arts and Humanities ( <a href="http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities">http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities</a> )				3B	3
MATH 124, MATH 125, MATH 126 must be completed by the end of Semester 1, if necessary.		X			
<b>Total Credits</b>					<b>16</b>

Semester 2		Critical	Recommended	AUCC	Credits
CHEM 113	General Chemistry II	X			3
CHEM 114	General Chemistry Lab II	X			1
MATH 155	Calculus for Biological Scientists I (GT-MA1)			1B	4
PSY 100	General Psychology (GT-SS3)	X		3C	3
LIFE 201B	Introductory Genetics: Molecular/Immunological/Developmental (GT-SC2)			3A	3
LIFE 203	Introductory Genetics Laboratory				2
<b>Total Credits</b>					<b>16</b>

### Sophomore

Semester 3		Critical	Recommended	AUCC	Credits
CHEM 341	Modern Organic Chemistry I		X		3
LIFE 210	Introductory Eukaryotic Cell Biology	X			3
LIFE 212	Introductory Cell Biology Laboratory	X			2
MATH 255	Calculus for Biological Scientists II			1B	4
Select one course from the following:					3
CO 300	Writing Arguments (GT-CO3)			2	
CO 301B	Writing in the Disciplines: Sciences (GT-CO3)			2	
<b>Total Credits</b>					<b>15</b>

Semester 4		Critical	Recommended	AUCC	Credits
CHEM 343	Modern Organic Chemistry II		X		3
CHEM 344	Modern Organic Chemistry Laboratory		X		2
Select one course from the following:					5
PH 121	General Physics I (GT-SC1)		X	3A	
PH 141	Physics for Scientists and Engineers I (GT-SC1)		X	3A	
PSY 252	Mind, Brain, and Behavior				3
Arts and Humanities ( <a href="http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities">http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities</a> )				3B	3
CHEM 341 must be completed by the end of Semester 4.		X			
<b>Total Credits</b>					<b>16</b>

<b>Junior</b>					
<b>Semester 5</b>		<b>Critical</b>	<b>Recommended</b>	<b>AUCC</b>	<b>Credits</b>
BC 401	Comprehensive Biochemistry I	X			3
BMS 300	Principles of Human Physiology	X			4
Select one course from the following:					5
PH 122	General Physics II (GT-SC1)			3A	
PH 142	Physics for Scientists and Engineers II (GT-SC1)			3A	
Select one course from the following:					3
STAT 301	Introduction to Applied Statistical Methods		X		
STAT 307	Introduction to Biostatistics		X		
<b>Total Credits</b>					<b>15</b>
<b>Semester 6</b>		<b>Critical</b>	<b>Recommended</b>	<b>AUCC</b>	<b>Credits</b>
BC 403	Comprehensive Biochemistry II			4B	3
BC 404	Comprehensive Biochemistry Laboratory				2
BMS 345	Functional Neuroanatomy		X		4
NB 399	Thesis Preparation		X		1
Diversity, Equity, and Inclusion ( <a href="http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#diversity-equity-inclusion">http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#diversity-equity-inclusion</a> )					3
Historical Perspectives ( <a href="http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#historical-perspectives">http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#historical-perspectives</a> )					3
<b>Total Credits</b>					<b>16</b>
<b>Senior</b>					
<b>Semester 7</b>		<b>Critical</b>	<b>Recommended</b>	<b>AUCC</b>	<b>Credits</b>
BMS 325	Cellular Neurobiology	X			3
MIP 300	General Microbiology	X			3
NB 493	Senior Seminar	X		4C	1
Free Electives					6
<b>Total Credits</b>					<b>13</b>
<b>Semester 8</b>		<b>Critical</b>	<b>Recommended</b>	<b>AUCC</b>	<b>Credits</b>
BC 465	Molecular Regulation of Cell Function	X			3
MIP 342	Immunology	X			4
NB 499	Senior Thesis	X		4A,4C	3
Free Electives					3
The benchmark courses for the 8th semester are the remaining courses in the entire program of study.					
<b>Total Credits</b>					<b>13</b>
<b>Program Total Credits:</b>					<b>120</b>