

# NEUROSCIENCE

## BACHELOR OF SCIENCE (B.S.)

CORE Requirements	Credits	Major Requirements	Credits	Major Requirements	Credits	Free Electives <sup>2</sup>	Credits
CORE 090 First Yr Exp.	1	CORE 154 <sup>3</sup>	3	CHEM 113	3	Free Elective	3
CORE 100 Lib Arts Sem.	3	BIOL 113	3	CHEM 113L	1	Free Elective	3
CORE 110 Effect Writ.	3	BIOL 113L	1	CHEM 114	3	Free Elective	3
CORE 115 or 116 Oral Comm.	3	BIOL 210	3	CHEM 114L	1	Free Elective	3
CORE 131 or 133 Civilization	3	BIOL 210L	1	CHEM 241	3	Free Elective	3
CORE 140 or 141-145 Forgn.	3	BIOL 213	3	CHEM 241L	1		
CORE 16x Literature	3	BIOL 213L	1	CHEM 242	3		
CORE 17x The Arts	3	MATH 125 <sup>3</sup>	4	CHEM 242L	1		
CORE 18x <sup>1</sup> Amer. Studies	3	MATH 128 <sup>3</sup>	4	Science Elective*	4		
CORE 19x <sup>1</sup> Global Studies	3	NEUR 211	3	Science Elective*	4		
CORE 25x Syst. Theology	3	NEUR 212	3	Science Elective*	3-4		
CORE 26x Mor. Theology	3	NEUR 310	3	Science Elective*	3-4		
CORE 280 Philos. I	3	NEUR 480	3				
CORE 281-289 Philos. II	3						
Total Credits for CORE	40	Total Credits for Major	65			Total Credits for Free Electives	15

### Minimum Credits Required for Graduation = 120

\*In addition to the major sequence requirements, a Neuroscience Major must also complete four science elective courses from the following list. At least two (2) of these courses must include a laboratory component. (Some courses will require the laboratory component, as determined by the instructor):

Science Electives			
BIOL 221 & 221L	BIOL 326 & 326L	NEUR 342	NEUR 390
BIOL 222 & 222L	BIOL 336 & 336L	NEUR 345	NEUR 391
BIOL 314 & 314L	BIOL 380	NEUR 346	PHYS 111 & 111L**
BIOL 323 & 323L	BIOL 447 & 447L	NEUR 348	PHYS 112 & 112L**
BIOL 324 & 324L	BIOL 456 & 456L	NEUR 349 & 349L	

\*\* In preparation for graduate or professional school, Pre-Healing Arts students should complete the two-semester sequence in Physics (PHYS 111, PHYS 111L, PHYS 112, and PHYS 112L).

<sup>1</sup>Students are required to take CORE 180 **OR** CORE 190 to fulfill the Interdisciplinary CORE requirement.

- If a student takes CORE 180, then he/she should choose from 191 – 198 to fulfill the 19x requirement.
- If a student takes CORE 190, then he/she should choose from 181 – 188 to fulfill the 18x requirement.

<sup>2</sup>Students may select “free electives” for personal enrichment **OR** for Minor and/or Second Major Requirements.

<sup>3</sup>Students majoring in Neuroscience are required to take CORE 154, MATH 125, and MATH 128. These courses satisfy both major and CORE requirements. CORE 154 satisfies the CORE Social Science requirement and MATH 125 or MATH 128 satisfies the CORE Math requirement.

### General Information:

A student must earn a minimum of 120 credit hours to be awarded the baccalaureate degree. The number of credit hours required for graduation may be higher in certain major programs **or** if the student elects to pursue a second major.

Beyond the requirements of the Core Curriculum and of a student’s chosen major program, the balances of the credit hours required for graduation are “free electives.”

# NEUROSCIENCE

## SUGGESTED SEQUENCE

- Use the information below as a guide when selecting courses.
- Refer to the reverse order when selecting major courses, major electives, core courses, and free electives when applicable.
- Consult your Academic Advisor prior to course registration.
- Refer to the King's College Catalog and/or website for course titles and descriptions.
- Choose one course from each CORE category as listed on the reverse side.
  - CORE courses may be taken in any order approved by the academic advisor with the following conditions:
    - CORE 100 and CORE 110 should be taken in the first year.
    - CORE 115 (or 116) should be taken within the first two years.
    - For students selecting a Foreign Language (CORE 14x), every effort should be made to register for that language in the first semester at King's.

1 <sup>st</sup> Year - Fall		cr.	1 <sup>st</sup> Year - Spring		cr.
CHEM 113 General Chemistry I		3	CHEM 114 General Chemistry II		3
CHEM 113L General Chemistry I Lab		1	CHEM 114L General Chemistry II Lab		1
BIOL 113 Evolution & Diversity		3	BIOL 210 Organisms & Their Ecosystems		3
BIOL 113L Evolution & Diversity Lab		1	BIOL 210L Organisms & Their Ecosystems Lab		1
CORE		3	MATH 125 Calculus		4
CORE		3	CORE 154 Introduction to Psychology		3
CORE 090 First Year Experience		1			
		<b>15</b>			<b>15</b>
2 <sup>nd</sup> Year - Fall			2 <sup>nd</sup> Year - Spring		
BIOL 213 Cell & Molecular Biology		3	Science Elective*		4
BIOL 213L Cell & Molecular Biology Lab		1	CORE		3
CHEM 241 Organic Chemistry I		3	CHEM 242 Organic Chemistry II		3
CHEM 241L Organic Chemistry I Lab		1	CHEM 242L Organic Chemistry II Lab		1
NEUR 211 Neuroscience I		3	NEUR 212 Neuroscience II		3
CORE		3			
		<b>14†</b>			<b>14†</b>
3 <sup>rd</sup> Year - Fall			3 <sup>rd</sup> Year - Spring		
Science Elective*		3-4	Science Elective*		3-4
MATH 128 Intro. To Statistics & Data Analysis		4	CORE		3
CORE		3	CORE		3
CORE		3	CORE		3
Free Elective <sup>2</sup>		3	Free Elective <sup>2</sup>		3
		<b>16-17</b>			<b>16</b>
4 <sup>th</sup> Year - Fall			4 <sup>th</sup> Year - Spring		
NEUR 310 Research Methods in Neuroscience		3	NEUR 480 Senior Seminar		3
Science Elective*		3-4	CORE		3
CORE		3	CORE		3
CORE		3	Free Elective <sup>2</sup>		3
Free Elective <sup>2</sup>		3	Free Elective <sup>2</sup>		3
		<b>15-16</b>			<b>15</b>

**Minimum Credits Required for Graduation = 120**

†The standard semester course load is five courses consisting of 15 – 17 credits. A student may take 18 credits if the science lab puts them over 17 credits. (For more information about credit loads, please see the college catalog.)