BS Neuros	science (Fal	I 2018	&	Later)	
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Minimum 120 credits required for Bachelor's degree			
Foundational Core (30-32 Credits) Grade			
FYXX 125 ¹	First Year Seminar		
CTL 125	Critical Thinking		
MA 140	Precalculus		
Choose 1 cours	se from each area *		
² Science			
Literature			
History			
Arts/Design/Co	mm		
Philosophy			
Theology/Relig			
Social Science			
Human Journey Seminars: Great Books in CIT (6 Credits)			
CIT 201	Human Journey CIT I		

CIT 201 Human Journey CIT I

CIT 202	Human Journey CIT II	

Liberal Arts Explorations (LAE) (9 Credits)

Humanistic Inquiry (3 Credits)	
Social Global Awareness (3 Credits)	
Scientific Literacy (3 Credits)	

* See list of courses. Courses must be in the same theme. '(Requires Grade C or higher)

²Science/Natural Science courses includes

approved Math and Computer Science courses. Students are required to take at least one course in Biology, Chemistry, or Physics in the F Foundational or Liberal Arts Explorations Core CS and MA courses may be used as a Science/Natural Science in either the Foundational Core <u>or</u> as a theme requirement in the TI LAE Core but not in both categories.

Note: MA 006 and ESL courses **will not** count towards the 120 credit graduation requirement.

Approved Study Abroad courses may be used to satisfy requirements for the foundational core or a Thematic Libeeral Arts Explorations Core.

52-55 credits required in Biology/Psychology				
Biology	Core	Grade		
BI 111	Concepts in Biology I			
BI 112	Concepts in Biology II			
BI 113	Concepts in Biology I Laboratory			
BI 114	Concepts in Biology II Laboratory			
BI 201	Genetics & Evolution: Org. to Pop.			
BI 202	Ecology: Pop. to Eco.			
BI 203	Genetics & Evolution: Org. to Pop. Laboratory			
BI 204	Ecology: Pop. to Eco. Laboratory			
BI 399	Senior Seminar			
Psychol	ogy Core			
PS 110	Introduction to Psychology			
PS 201	Research Design & Analysis I			
Neuroso	cience Core			
BI205/PS350	Essentials of Neuroscience			
BI 345	Neurobiology			
PS 351	Brain & Behavior			
BI 390/360	Supervised Research (3 credits) or			
PS 397	Internship (3 credits)			
At least 5 e	At least 5 electives from the following list (2 must			
be from Bi	be from Biology and 2 must be from Psychology)			
BI 255/305	Animal Behavior or Behavioral Neurobiology			
BI 306	Pharmacology			
BI 311	Cell Biology			
BI 299	Neuroscience elective			
PS 335	Human & Animal Learning			
PS 352	Hormones & Behavior			
PS 353	Neuropharmacology			
PS 389	Special Topics in Neuroscience			

Required Supporting Courses (23 Cr.)		
CH 151	General Chemistry I	
CH 152	General Chemistry II	
CH 153	General Chemistry Laboratory I	
CH 154	General Chemistry Laboratory II	
CH 221/223	Organic Chemistry I with Lab	
MA	Statistics (131/132/133)	
MA	PreCalculus, Calculus	
PY	Physics 100 level with Lab	

Required Curriculum for Degree in Major

SACRED HEART UNIVERSITY COLLEGE OF ARTS & SCIENCES BS in Neuroscience (Fall 2018 & Later)

The Neuroscience concentration in the Biology major offers an innovative and interdisciplinary curricula that combines a rigorous grounding in the foundational principles of both biological and psychological science at all scales of organization from molecules to human and animal behavior up to ecosystems. The program emphasizes coursework in biology and psychology focusing on the areas where these two disciplines intersect with one another. The major provides students with the education to pursue graduate studies in an array of fields as well as enter medical school or the workplace in neuroscience-related biotechnology and pharmaceutical enterprises. Experienced faculty provide small classes, personal attention, and mentoring to benefit the development of the student. A focus of the program is to provide students with research and interpship opportunities in the field of neuroscience.

A student majoring in the Neuroscience concentration is required to complete 52 to 55 credits in Biology and Psychology: 18 in the Biology core, 6 in the Psychology Core, and 28-31 credits in the Neuroscience core. Twenty-three credits are required in the supporting areas of Chemistry, Physics, and Mathematics.

YEAR 1	SEMESTER I (18 cr)	YEAR 1	SEMESTER 2 (14cr)
FYXX 125 or	First Year Seminar	FYXX 125 or	First Year Seminar or
CTL 125	Critical Thinking	CTL 125	Critical Thinking
BI 111/BI 113	Concepts in Biologyl with Laboratory	BI112/BI114	Concepts in Biology II with Laboratory
CH 151/153	General Chemistry I with Laboratory	CH 152/154	General Chemistry II with Laboratory
MA140/151	PreCalculus, Calculus	MA	Statistics (131/132/133)
PS 110	Introduction to Psychology		Elective (Foundational Core)
		VEAD 0	
YEAR 2	SEMESTER 3 (17 cr)	YEAR 2	SEMESTER 4 (16 cr)
BI202/204	Ecology: Pop. to Eco. with Laboratory	BI201/203	Genetics & Evolution: Org. to Pop. with Laboratory
CH 221/223	Organic Chemistry I with Lab	BI205/PS350	Essentials of Neuroscience
CIT 201	Human Journey CIT I	PS 201	Research Design & Analysis I
	Elective (Foundational Core)	CIT 202	Human Journey CIT II
	Elective (Foundational Core)		Elective (Foundational Core)
YEAR 3	SEMESTER 5 (16 cr)	YEAR 3	SEMESTER 6 (14 cr)
BI 345	Neurobiology	BI/PS	Neuroscience elective
PS 351	Brain & Behavior	BI/PS	Neuroscience elective
	LAE Elective		LAE Elective
	LAE Elective		Supervised Research
	Elective (Foundational Core)	BI 398	Senior Seminar Prep
YEAR 4	SEMESTER 7 (16 cr)	YEAR 4	SEMESTER 8 (14 cr)
BI/PS	Neuroscience elective	BI/PS	Neuroscience elective
BI/PS	Research or Internship	BI/PS	Neuroscience elective
PY 1XX	Physics With Lab	BI 399	Senior Seminar
	Elective (Free)		Elective (Free)
	Elective (Free)		Elective (Free)
			-

SUGGESTED FOUR YEAR SEQUENCE OF STUDY:

Note: Found ational Core should be completed by the end of the Junior Year

Note: LAE Core should be completed by the end of the 1st semester of the Senior Year

Note: Students must average 15 or more credits/semester to graduate on an 8 semester schedule.