		NEUROSCI	ENCE BS	(120 hr	·s) F	Effective 2019)		
NAME	PID PID				ional 2 nd Major o				
FOUNDATIONS									
English Comp. and Rhetoric		Foreig	Foreign Language*			Quant. Reas. (QR)		Lifetime	e Fitness (LFIT)
	1.		3.			MATH 221			41)
	2.		4.			MATH 231			(1 hr)
	* Thro	ugh Level 3	Level 3						
APPROACHES									
Phys. and Life Sciences (PL/PX) **		Social and Behavioral Sciences***			**	Humanities/Fine Arts			rts
PSYC 101		Hist. Analysis (HS):				Vis. & Perf. Arts (VP):			
		Soc.Sci./Hist. Analy	Soc.Sci./Hist. Analysis (SS/HS):			Literary Arts (LA):			
BIOL 101 BIOL 101L		Soc.Sci./Hist. Anal	Soc.Sci./Hist. Analysis (SS/HS):			Phil. Reasoning (PH):			
** C or better in BIOL 101 and CHEM 101 or CHEM 102 before taking BIOL 201 or 202 ***From at least two departments CONNECTIONS									
Communication Int. (CI)		Quant. Int. (QI) on	Quant. Int. (QI) or 2 nd Quant. Reas. (QR)			Experiential Ed. (EE)			lobal Issues (GL)
BIOL 101L		MATH 232	MATH 232		СНЕМ	CHEM 262L			
US Diversity (US)		North Atla	North Atlantic World (NA)		World before 1750 (WB)		(WB)	Beyond the NA (BN)	
MAIOD/MINOD/ELECTIV	TEC	•							
MAJOR/MINOR/ELECTIV NEUROSCIENCE *		al Dagwinamanta							
Major Core Courses	Additional Requirements								
NSCI 175* (3) PSYC 101		1							
PSYC 210 (4) or	PHYS 104, 114, 116 or 118 (4)								
STOR 155 (3)	PHYS 105, 115,								
PSYC 270 (4)	117, or 119 (4)								
CHEM 101 CHEM 101L		ſ.							
NCSI 222 (3)	CHEM 102								
NSCI 225 (3)		CHEM 102L							
Knowledge Electives (6 cr hrs)	CHEM 241 CHEM 241L		▲ 19 hours > C (not C) required in						
	CHEM 261		 ♦ 18 hours ≥ C (not C-) required in major core. ♦ Students must have a cumulative GPA of 2.0 or higher in core courses. 						
	CHEM 262		*C or better required in NCSI 175						
Mathematics, Methods, and	CHEM 262L								
Statistics Electives (6 cr hrs)	COMP 116								
	BIOL 101 BIOL 101I								
	MATH 23								
	BIOL 202								
Remaining courses after this t Foundations Approaches Connections Supplemental (hrs C) (hrs C) (hrs C) Requirements subtotal	H	Hours to be deducted Repeated courses ISFL Online courses > 24 Other Professional School > Hours in subject (BA)	30	Pending Subtotal Hours de Hours af Hours re Semester	date: progress Study Al educted iter this te	erm	Notes:		
Total				*Pending study abroad hours may differ from hours earned.					

This tally assumes successful completion of presently enrolled courses (not AB or IN), and it does not account for all possible overlaps

Knowledge Electives (6 credit hours)

Mathematics, Methods, and Statistics Electives (6 credit hours)

All course are three credit hours unless otherwise noted

BIOL 205 Cellular and Developmental Biology (4)

BIOL 425 Human Genetics

BIOL 450 Introduction to Neurobiology

BIOL 455 Behavioral Neuroscience

BIOL 458 Sensory Neurobiology and Behavior

BIOL 542 Light Microscopy for the Biological Sciences

BIOL 552 Behavioral Endocrinology

BIOL 553 Mathematical and Computational Models in Biology

CHEM 430 Introduction to Biological Chemistry

COMP 401 Foundation of Programming (4)

COMP 410 Data Structures

COMP 411 Computer Organization (4)

COMP 555 Bioalgorithms

COMP 560 Artificial Intelligence

COMP 562 Introduction to Machine Learning

COMP 576 Mathematics for Image Computing

COMP 581 Introduction to Robotics COMP 631 Computer Networks

COMP 633 Parallel and Distributed Computing

COMP 651 Computational Geometry COMP 665 Images, Graphics, and Vision

EXSS 175 Human Anatomy

EXSS 275L Human Anatomy Laboratory (1)

EXSS 276 Human Physiology

EXSS 380 Neuromuscular Control and Learning

NSCI 320 Neuropsychopharmacology

NSCI 325 Neuroscience of Psychiatric Disorders

NSCI 401 Animal Behavior

NSCI 405 Advanced Molecular Neuropharmacology

NSCI 415 History of Neuroscience

NSCI 420 Functional Neuroanatomy

NSCI 421 Principles of Brain Circuits

NSCI 422 Genetics of Brain Diseases

NSCI 423 Neurotechnology in Modern Neuroscience Research

NSCI 424 Neural Connections: Hands on Neuroscience

NSCI 427 Neurobiology of Aging

NSCI 428 Neuroscience, Society, and the Media

NSCI 434 Cognitive Neuroscience

NSCI 437 Neurobiology of Learning and Memory

NSCI 507 Autism

NSCI 568 Emotion

NSCI 571 Social Neuroscience

NSCI 573 Neuropsychobiology of Stress

PHYS 133 How Bio Works

PHYS 405 Biological Physics

PSYC 245 Psychopathology

PSYC 404 Clinical Psychopharmacology

PSYC 469 Evolution and Development of Biobehavioral Systems

PSYC 559 Applied Machine Learning in Psychology

PSYC 602 Evolutionary Psychology

BIOL 226 Mathematical Methods for Quantitative Biology

BIOL 226L Mathematical Methods for Quantitative Biology Laboratory (1)

BIOS 500H Introduction to Biostatistics

BMME 350 Electronics for Biomedical Engineers (4)

BMME 351 Human Physiology and Biological Measurements for Engineers (4)

BMME 445 Systems Neuroscience

BMME 550 Medical Imaging I: Ultrasonic, Optical, and Magnetic Resonance Systems

COMP 283 Discrete Structures²

MATH 233 Calculus of Functions of Several Variables (4)

MATH 381 Discrete Mathematics²

MATH 383 First Course in Differential Equations

MATH 383L First Course in Differential Equations Laboratory (1) MATH 523 Functions of a Complex Variable with Applications

MATH 528 Mathematical Methods for the Physical Sciences I MATH 528L Laboratory for Mathematical Methods for the Physical Sciences I (1)

MATH 529 Mathematical Methods for the Physical Sciences II

MATH 529L Laboratory for Mathematical Methods for the Physical Sciences II (1)

MATH 535 Introduction to Probability
MATH 547 Linear Algebra for Applications

MATH 555 Introduction to Dynamics

MATH 564 Mathematical Modeling in the Life Sciences

MATH 566 Introduction to Numerical Analysis

MATH 577 Linear Algebra

MATH 661 Scientific Computation I MATH 662 Scientific Computation II

MATH 668 Methods of Applied Mathematics I MATH 669 Methods of Applied Mathematics II NSCI 275 Neuroscience Research Methods (4) NSCI 403 Advanced Biopsychology Laboratory PSYC 533 The General Linear Model in Psychology STOR 215 Foundations of Decision Sciences²

STOR 415 Introduction to Optimization STOR 435 Introduction to Probability STOR 445 Stochastic Modeling

STOR 455 Statistical Methods I STOR 555 Mathematical Statistics

STOR 556 Advanced Methods of Data Analysis

STOR 565 Machine Learning

² Students may take one of COMP 283, MATH 381, or STOR 215