

Behaviour, Cognition and Neuroscience Program (BCN) - WITH/WITHOUT THESIS

Student Name: _____

Student I.D. Number: _____ Year of Study: _____

GRADE POINT AVERAGE OF 70% IN BIOLOGY & PSYCHOLOGY (AND 60% CUMULATIVE)

REQUIREMENTS: Total number of courses: 40 (each course = 3 units unless stated otherwise)

- > Biology: 12
- > Psychology: 10
- > Chemistry: 4
- > BIOL/PSYC/BIOM/CHEM/KINE 3XXX/4XXX: 4/6
- > Statistics: 1
- > Paired Courses: 2
- > Research Design: 1
- > Undergraduate Research Project: 2/0
- > Arts & Social Science (not Psychology): 2
- > Any area of study: 2

Noncredit requirement: Attendance at seminars on current Behavior, Cognitive and Neuroscience Research (usually monthly) is mandatory during all years of the program. For thesis version, involvement in a BCN faculty research lab is required in the 3rd year of study and highly recommended throughout the duration of the program.

NOTE: Maximum of 14 courses at the 1000 level and at least 26 courses at the 2000 – 4000 level.
 Minimum 30 units (10 courses) taken at UWindsor in BIOL/PSYC/BIOM at or above the 2000 level.

SUMMARY OF COURSES ATTAINED TOWARDS DEGREE *

Biology (note: BIO_____ refers to BIOL- or BIOM- courses) **	BIOL1101 BIOL2111 BIOL3230	BIOL1111 BIOM2131 BIOL4450	BIOL2040 BIOL2480 BIOL4481	BIOL2101 BIOL3142 BIO_____	36* (12)
Psychology	PSYC1150 PSYC3130 PSYC3580 (PSYC3370 or	PSYC1160 PSYC3220 or PSYC3530 PSYC4230 or	PSYC2230 PSYC3230) PSYC4570)	PSYC2560 PSYC3350	30 (10)
Chemistry	CHEM1100	CHEM1101	CHEM2300	BIOC2010	12 (4)
Biology/Psych/Biomed/Chem/ Kinesiology (3XXX/4XXX level)***	_____	_____	_____	_____	12/18 (4/6)
Statistics	SOSC2500 or	STAT2910			3 (1)
Paired Science Courses (Physics, CompSci, EnviroSci)	_____	_____			6 (2)
Research Design	PSYC2300 or	BIOL3022			3 (1)
Undergrad Research Project (all except PSYC are 6 credits)***	BIOL4904 or CHEM4900 or	PSYC4960 + KINE4780	PSYC4970 or	BIOM4904 or	6/0 (2/0)
Arts & Social Science (not Psychology)	_____	_____			6 (2)
Any area of study	_____	_____	(MATH1720 or MATH1760 is recommended)		6 (2)

* numbers in brackets indicate #courses

** Note: BIOM 3750 counts only as Science or Any area of study course, not BIOL/BIOM.

*** Students in "with thesis" program require 4 BIOL/PSYC/BIOM/CHEM/KINE upper year courses and thesis (2 courses or 6 credit course); Students in non-thesis program require 6 BIOM/PSYC/BIOM/CHEM/KINE upper year courses.

RECOMMENDED COURSE SEQUENCE

NOTE: *RECOMMEND 5 COURSES PER SEMESTER AND, FOLLOWING SEQUENCE TO PREVENT COURSE CONFLICTS*

Fall Semester

Winter Semester

Year 1:

BIOL 1101 Cell Biology
 CHEM 1100 General Chemistry I
 PSYC 1150 Psychology as Behavioural Science

BIOL 1111 Biological Diversity
 CHEM 1110 General Chemistry II
 PSYC 1160 Psychology as Social Science

<i>Paired Courses:</i>	Computer Science (COMP 1047 or 2067)	<i>and</i>	Computer Science (COMP 2057)
<i>or</i>	Physics (PHYS 1300)	<i>and</i>	Physics (PHYS 1310)
<i>or</i>	Physics (PHYS 1400)	<i>and</i>	Physics (PHYS 1410)
<i>or</i>	Earth & Envi. Science (ESCI 1100)	<i>and</i>	Earth & Envi. Science (ESCI 1111)
<i>or</i>	Earth & Envi. Science (ESCI 1130)	<i>and</i>	Earth & Envi. Science (ESCI 2400)

Arts/SocSci or Any area of study or MATH 1720 SOSC 2500 Statistics or STAT 2910 Bio Stats

Year 2:

BIOL 2040 Human Physiology
 BIOL 2101 Ecology
 BIOL 2111 Genetics
 CHEM 2300 Introductory Organic Chemistry
 PSYC 2300¹ Social Science Research Methods

BIOM 2131 Introductory Molecular Biology
 BIOL 2480 Principles of Neuroscience
 BIOC 2010 Organic Chemistry of Biomolecules
 PSYC 2560 Intro. To Brain & Human Behaviour
Arts/Social Science or Any area of study

Year 3:

PSYC 2230 Developmental Psychology: The Child
 PSYC 3130 Advanced Statistics
 PSYC 3530 Learning and Behavior
 PSYC 3350 Human Sensation and Perception²

BIOL 3142 Evolution
 BIOL 3230 Animal Behavior
 PSYC 3220 Child Psychopathology [or PSYC 3230 in Year 4 (see below)]

Remaining courses include PSYC 3580 Cognitive Processes (offered in F and W) and Option courses.

Year 4:

Ugrad Thesis - 1st semester BIOL4904 or PSYC4960 + PSYC4970 or	Ugrad thesis - 2nd semester BIOM4904 or CHEM4900 or KINE4780 ²
Non-thesis: Option course	Option course

PSYC 3350 Human Sensation and Perception

BIOL 4450 Behavioural Neurobiology
 BIOL 4481 Excitable Cells

One of:

PSYC 4230 Advanced Develop'l Cognitive Psychology or	PSYC 3370 Human Cognitive Neuroscience
or	PSYC 4570 Comparative Cognition

Remaining courses include Option courses and/or choices from the following:

PSYC 3230 Developmental Disabilities: Psychobiological (offered F and W) [or PSYC 3220 in Year 3 (see above)]

¹ BIOL 3022 Experimental Principles & Design may be taken as an alternative course.

² The thesis will be within the subject area of behaviour, cognition or neuroscience. Students planning to take PSYC 4960 must have: a Psychology supervisor, all prerequisites (PSYC-2300, PSYC-3130, PSYC-3350, PSYC-3530, and PSYC-3580), PSYC course average min. 80%, and consent of instructor or Psychology Undergraduate Program Chair. Note: Other students take PSYC3350 in year 4.

Suggested Options:

Biology, Biomed, & Chemistry Courses

BIOL 2050 Human Physiology II
 BIOL 3212 Environmental Physiology
 BIOL 3241 Biology of Fishes
 BIOL 3250 Population and Community Ecology
 BIOL 3261 Ornithology
 BIOL 3571 Animal Cells & Tissues
 BIOM 3500 Molecular Cell Biology
 BIOM 3550 Embryology
 BIOM 4440 Neurophysiology
 BIOC 3130 Protein and Nucleic Acid Chemistry

****Kinesiology Courses**

KINE 3020 Exercise and Fitness Psychology
 KINE 3100 Motor Learning and Control
 KINE 4530 Perceptual-Motor Development
 KINE 4580 The Endocrine System in Sport, Exercise & Health
 KINE 3610 Chronic Disease and Exercise Rehabilitation
 KINE 4640 Pathophysiology of Pain

****a) See the Department of Kinesiology's website for additional course descriptions:**
www.uwindsor.ca/kinesiology/undergrad-programs

b) Please note: All students selecting a Kinesiology course MUST be signed in by the Prof who teaches the course, or the Kinesiology Dept. Head.

Note: A biochemistry or chemistry minor is possible if proper options are taken (see Registrar's Office or Chem/Biochem Advisor).