

## 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                             | -> Paired Courses: 2                         |
| -> Psychology: 10                          | -> Research Design: 1                        |
| -> Chemistry: 4                            | -> Undergraduate Research Project: 2/0       |
| -> BIOL/PSYC/BIOM/CHEM/KINE 3XXX/4XXX: 4/6 | -> Arts & Social Science (not Psychology): 2 |
| -> Statistics: 1                           | -> 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 BIOL2142/3142 BIO_____	36* (12)
Psychology	PSYC1150 PSYC3130 PSYC3580 ( PSYC3370 or	PSYC1160 PSYC3220 or PSYC3530 or PSYC4230	PSYC2230 PSYC3230 ) PSYC4270 ) 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 2300<sup>1</sup> 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:**

BIOL 2142/3142 Evolution  
 PSYC 2230 Developmental Psychology: The Child  
 PSYC 3130 Advanced Statistics  
 PSYC 3350 Human Sensation and Perception<sup>2</sup>

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<sup>2</sup>

Non-thesis: Option course      Option course

PSYC 3350 Human Sensation & Perception  
 PSYC 4270 Methods of Behav'l Change (or PSYC 3530)

BIOL 4450 Behavioural Neurobiology  
 BIOL 4481 Excitable Cells

**One of:**

PSYC 4230 Advanced Develop'l Cognitive Psychology	<i>or</i>	PSYC 3370 Human Cognitive Neuroscience
	<i>or</i>	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)]

<sup>1</sup> BIOL 3022 Experimental Principles & Design may be taken as an alternative course.

<sup>2</sup> 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: (see UGrad calendar for offerings)**

**Biology, Biomed, & Chemistry Course**

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](http://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).