DEPARTMENT OF INTEGRATIVE BIOLOGY ADVISING FORM **FALL 2022/WINTER 2023**
Program & Subprogram: BSHBN & BION1HBSH

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

Student Name: _____

Student I.D. Number: _____ Year of Study: 0

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 biweekly *Colloquia and Seminars in Current Behavior, Cognitive and Neuroscience Research* is mandatory throughout the duration of the program. For thesis version, involvement in ongoing research in BCN faculty labs is required in the third 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.

SUMMARY OF COURSES ATTAINED TOWARDS DEGREE *

Biology (note: BIO_____ refers to BIOL- or BIOM- courses) **	☐ BIOL1101 ☐ BIOL1111 ☐ BIOL2040 ☐ BIOL2101 ☐ BIOL2111 ☐ BIOM2131 ☐ BIOL2480 ☐ BIOL3142 ☐ BIOL3230 ☐ BIOL4450 ☐ BIOL4481 ☐ BIO_____	36* (12)
Psychology	☐ PSYC1150 ☐ PSYC1160 ☐ PSYC2230 ☐ PSYC2560 ☐ PSYC3130 (☐ PSYC3220 *or* ☐ PSYC3230) ☐ PSYC3350 ☐ PSYC3580 ☐ PSYC3530 (☐ PSYC3370 *or* ☐ PSYC4230 *or* ☐ PSYC4570)	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* ☐ PSYC4960 + ☐ PSYC4970 *or* ☐ BIOM4904 *or* ☐ CHEM4900 *or* ☐ KINE4780	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	☐ BIOL 1111 Biological Diversity
☐ CHEM 1100 General Chemistry I	☐ CHEM 1110 General Chemistry II
☐ PSYC 1150 Psychology as Behavioural Science	☐ PSYC 1160 Psychology as Social Science

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

☐ Arts/Social Science or ☐ Any area of study option or ☐ MATH 1720 ☐ SOSC 2500 Statistics or STAT 2910

Year 2:

☐ BIOL 2040 Human Physiology	☐ BIOM 2131 Introductory Molecular Biology
☐ BIOL 2101 Ecology	☐ BIOL 2480 Principles of Neuroscience
☐ BIOL 2111 Genetics	☐ BIOC 2010 Organic Chemistry of Biomolecules
☐ CHEM 2300 Introductory Organic Chemistry	☐ PSYC 2560 Intro. To Brain & Human Behaviour
☐ PSYC 2300[*1] Social Science Research Methods	☐ *Arts/Social Science or* ☐ *Any area of study option*

Year 3:

☐ PSYC 2230 Developmental Psychology: The Child	☐ BIOL 3142 Evolution
☐ PSYC 3130 Advanced Statistics	☐ BIOL 3230 Animal Behavior
☐ PSYC 3530 Learning and Behavior	☐ PSYC 3220 Child Psychopathy [*OR* ☐ PSYC 3230 in Year 4 (see below)]

Remaining courses include PSYC 3580 Cognitive Processes (offered in F and W) and 4 Option courses.

Year 4:

Thesis: ☐ BIOL4904 or ☐ PSYC4960 or ☐ BIOM4904 or ☐ CHEM4900 or ☐ KINE4780 Research Project[*2]	☐ BIOL4904 or ☐ PSYC4970 or ☐ BIOM4904 or ☐ CHEM4900 or ☐ KINE4780 Research Project[*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 Developmental 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, prerequisites PSYC-2300; PSYC-3130 or equivalent; PSYC-3350, PSYC-3530, and PSYC-3580; PSYC course average min. 80%, and consent of instructor or Psychology Undergraduate Program Chair.

Suggested Options:

Biology, Chemistry & Psych 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

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

***** 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).

Revised: July 11, 2022