

UNIVERSITY OF WATERLOO | FACULTY OF SCIENCE

PSYCHOLOGY

UNIVERSITY OF
WATERLOO



Event Related Potential (ERP) systems help us better understand cognitive neuroscience – the study of how the brain enables the mind. ERPs are used to study how different populations of neurons respond on a millisecond-to-millisecond basis as they process different types of information (e.g., looking at a face).



PSYCHOLOGY

uwaterloo.ca/future/programs/psychology-science

4th in Canada for Psychology

Mind over matter.

Study the science of behaviour and the mind, with emphasis on the biological processes that enable cognitive function.

Psychology uses scientific methods to gain insights into the mind and behaviour. These insights provide essential information for promoting mental health. However, psychology is broader than mental health and has a variety of other valuable applications such as marketing, managing human resources, educational intervention, testing, and user experience research.

Take courses that explore the latest theories and findings in psychology and provide hands-on training in research methods while also taking courses in biology, chemistry, and mathematics.

SAMPLE CO-OP POSITIONS

- › Residential/Vocational Assistant
- › Health Promotion Assistant
- › Child & Youth Program Assistant
- › Content Developer Analyst
- › Human Resources Assistant

SAMPLE CO-OP EMPLOYERS

- › Ontario Health Quality Council
- › Toronto District School Board
- › Centre for Addiction & Mental Health
- › Sunnybrook Health Sciences Centre
- › Department of National Defense, Defense Research and Development Canada

POSSIBLE CAREER FIELDS/PATHS

- › Psychiatry
- › Neuroscience
- › Education
- › Childhood development
- › Psychological research

uwaterloo.ca/science



PARTICIPATE IN RESEARCH AND ACADEMIC PROGRAMS

through the Early Childhood Education Centre, located on campus.



EYE MOVEMENT TRACKERS



EVENT RELATED POTENTIAL SYSTEMS



VIRTUAL REALITY



OUR EQUIPMENT ROCKS

We're outfitted with state-of-the-art equipment, including eye movement trackers, Event Related Potential (ERP) systems, and virtual reality suites.

KNOWLEDGE TO HELP OTHERS

PSYCH 392 RESEARCH IN HUMAN COGNITIVE NEUROSCIENCE

What are the underlying responses in the brain that makes the mind work? How can we measure how fast the brain reacts to, and processes, various stimuli? What's our response to familiar vs. unfamiliar information? All of this, and more, is examined in this course. Students learn how to measure the psychophysiological responses to the stimuli in our world – from familiar faces to video games. You'll get to analyze different types of data, such as skin conductance responses (how fast signals move through the skin, body, and brain) and heart rate changes – to understand further how the mind works.

RESEARCH AREAS IN THE DEPARTMENT OF PSYCHOLOGY

- > Clinical
- > Cognitive
- > Cognitive Neuroscience
- > Developmental
- > Industrial/Organizational
- > Social

uwaterloo.ca/psychology/research/research-areas

SKILLS ATTAINED WITHIN THIS MAJOR

- > Communication
- > Research
- > Problem solving
- > Adaptability
- > Data analysis



Available in both the **CO-OP AND REGULAR** streams of study



Apply via the **LIFE SCIENCES** entry program on OUAC, selecting **PSYCHOLOGY** as the major



PSYCHOLOGY is jointly offered by both the Faculty of Science and the Faculty of Arts



BEYOND THE CLASSROOM

At the University of Waterloo, the Department of Psychology is home to the Centre for Mental Health Research

COURSE OUTLINE

YEAR 1

CHEM 120/120L
General Chemistry 1/Lab

CHEM 123/123L
General Chemistry 2/Lab

ENGL/SPCOM 193
Communication in
the Sciences

MATH 127 Calculus 1
for the Sciences

MATH 128 Calculus 2
for the Sciences

PSYCH 101
Introductory Psychology

2 Biology Electives (100-
or 200- level courses and
any related labs)*

1 Core Course

1 Elective

YEAR 2

PSYCH 238 Organizational Psychology
or **PSYCH 253** Social Psychology

PSYCH 291 Basic Research Methods

PSYCH 292 Basic Data Analysis

2 Core Courses

4 Science Electives (2.0 to 2.5 units – depending
on any labs selected)

1 Elective

YEAR 3

PSYCH 389 Advanced Social Science Research
Methods Topics

PSYCH 390 Advanced Natural Science Research
Methods Topics

PSYCH 391 Advanced Data Analysis

1 Core Course

2 Psychology Electives (300- or 400-level)

3 Science Electives (1.5 to 2.0 units – depending
on any labs selected)

1 Elective

YEAR 4

PSYCH 492 Psychological Measurement

2 Psychology Electives (300- or 400-level)

1 Psychology Elective (any level)

1 Honours seminar in PSYCH from **PSYCH 420**,
PSYCH 451, **PSYCH 453**, **PSYCH 454**, **PSYCH 455**,
PSYCH 457, **PSYCH 458**, **PSYCH 459**, **PSYCH 461**,
PSYCH 462, **PSYCH 463**, or **PSYCH 485**

3 Science Electives

2 Electives

CORE COURSES

Select 5 of these 6 as your Core Courses:

PSYCH 207 Cognitive Processes

PSYCH 211 Developmental Psychology

PSYCH 238 Organizational Behaviour

PSYCH 253 Social Psychology

PSYCH 257 Psychopathology

PSYCH 261 Physiological Psychology

SAMPLE FIRST-TERM SCHEDULE

* Labs

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
Science Communications 1 hr		Science Communications 1 hr	Biology 3 hrs *	Science Communications 1 hr
	Chemistry 3 hrs *			
Chemistry 1 hr		Chemistry 1 hr		Chemistry 1 hr
Calculus 1 hr	Biology 1.5 hrs	Calculus 1 hr	Biology 1.5 hrs	Calculus 1 hr
	Psychology 3 hrs			

*exclusive of **BIOL 101**, **BIOL 225**, **BIOL 280**

Course outline and schedule are subject to change at any time

Course sequence may vary for students who choose the co-op system of study.

ugradcalendar.uwaterloo.ca/group/uwaterloo-faculty-of-science

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