Psychology

This section presents the requirements for programs in:

- Psychology B.A. Honours
- Psychology B.A. Combined Honours
- Concentration in Cognitive Psychology
- Concentration in Developmental Psychology
- Concentration in Forensic Psychology
- Concentration in Health Psychology and Well-Being
- Concentration in Organizational Psychology
- Concentration in Social/Personality Psychology
- Psychology B.A. General
- Psychology B.Sc. Honours
- Minor in Human Resources and Management for B.A. Honours Psychology
- Minor in Psychology

Program Requirements

Psychology

B.A. Honours (20.0 credits)

A. Credits Included in the Major CGPA (9.0 credits):

1. 1.0 credit in:
   - PSYC 1001 [0.5] Introduction to Psychology I
   - PSYC 1002 [0.5] Introduction to Psychology II

2. 1.0 credit in:
   - PSYC 2001 [0.5] Introduction to Research Methods in Psychology
   - PSYC 2002 [0.5] Introduction to Statistics in Psychology

3. 0.5 credit from:
   - PSYC 2307 [0.5] Human Neuropsychology I
   - PSYC 2700 [0.5] Introduction to Cognitive Psychology

4. 0.5 credit from:
   - PSYC 2301 [0.5] Introduction to Health Psychology
   - PSYC 2801 [0.5] Organizational Psychology I

5. 1.0 credit from:
   - PSYC 2100 [0.5] Introduction to Social Psychology
   - PSYC 2400 [0.5] Introduction to Forensic Psychology
   - PSYC 2500 [0.5] Foundations of Developmental Psychology
   - PSYC 2600 [0.5] Introduction to the Study of Personality

6. 1.0 credit from:
   - PSYC 3000 [1.0] Design and Analysis in Psychological Research

7. 2.0 credits from:
   a. Thesis pathway:
      i. 1.0 credit from:
         - PSYC 3100 [1.0] Social Psychology (Honours Seminar)
         - PSYC 3300 [1.0] Health and Illness (Honours Seminar)
         - PSYC 3400 [1.0] Forensic Psychology (Honours Seminar)
   b. Project pathway
      i. 1.0 credit in:
         - PSYC 4910 [1.0] Project for B.A. with Honours in Psychology

B. Credits Not Included in the Major CGPA (11.0 credits):

10. 2.0 credits from BIOL, CHEM, COMP, ERTH, ISCI, MATH, NEUR, PHYS, STAT, or TSES

11. 3.0 credits at the 2000 level and above, not in PSYC

12. 3.0 credits, not in PSYC

13. 3.0 credits free electives

Total Credits 20.0

Note: Registration in the seminars in Requirement 7 a) i) requires a Major CGPA of at least 9.00. Registration in the thesis course PSYC 4908 [1.0] requires a Major CGPA of at least 10.00.

Psychology

B.A. Combined Honours (20.0 credits)

A. Credits Included in the Major CGPA (7.0 credits):

1. 1.0 credit in:
   - PSYC 1001 [0.5] Introduction to Psychology I
   - PSYC 1002 [0.5] Introduction to Psychology II

2. 1.0 credit in:
   - PSYC 2001 [0.5] Introduction to Research Methods in Psychology
   & PSYC 2002 [0.5] Introduction to Statistics in Psychology

3. 0.5 credit from:
   - PSYC 2307 [0.5] Human Neuropsychology I
   - PSYC 2700 [0.5] Introduction to Cognitive Psychology

4. 0.5 credit from:
   - PSYC 2301 [0.5] Introduction to Health Psychology
   - PSYC 2801 [0.5] Organizational Psychology I

5. 1.0 credit from:
   - PSYC 2100 [0.5] Introduction to Social Psychology
   - PSYC 2400 [0.5] Introduction to Forensic Psychology
   - PSYC 2500 [0.5] Foundations of Developmental Psychology
   - PSYC 2600 [0.5] Introduction to the Study of Personality

6. 1.0 credit from:
   - PSYC 3000 [1.0] Design and Analysis in Psychological Research

7. 2.0 credits from:
   a. Thesis pathway:
      i. 1.0 credit from:
         - PSYC 3500 [1.0] Developmental Psychology (Honours Seminar)
         - PSYC 3600 [1.0] Personality (Honours Seminar)
         - PSYC 3700 [1.0] Cognition (Honours Seminar)
         - PSYC 3805 [1.0] Organizational Psychology (Honours Seminar)
      ii. 1.0 credit from:
         - PSYC 4908 [1.0] Thesis for B.A. with Honours in Psychology
   or
   b. Project pathway
      i. 1.0 credit in PSYC at 3000-level or higher
      ii. 1.0 credit in:
         - PSYC 4910 [1.0] Project for B.A. with Honours in Psychology

Note: Registration in the seminars in Requirement 7 a) i) requires a Major CGPA of at least 9.00. Registration in the thesis course PSYC 4908 [1.0] requires a Major CGPA of at least 10.00.
### a. Thesis pathway

1.0 credit from:
- **PSYC 3100 [1.0]** Social Psychology (Honours Seminar)
- **PSYC 3300 [1.0]** Health and Illness (Honours Seminar)
- **PSYC 3400 [1.0]** Forensic Psychology (Honours Seminar)
- **PSYC 3500 [1.0]** Developmental Psychology (Honours Seminar)
- **PSYC 3600 [1.0]** Personality (Honours Seminar)
- **PSYC 3700 [1.0]** Cognition (Honours Seminar)
- **PSYC 3805 [1.0]** Organizational Psychology (Honours Seminar)

### b. Project pathway

1.0 credit in:
- **PSYC 4910 [1.0]** Project for B.A. with Honours in Psychology

### B. Additional Requirements (13.0 credits):

8. The requirements for Combined Honours in the other discipline must be satisfied.

9. **2.0 credits from** BIOL, CHEM, COMP, ERTH, ISCI, MATH, NEUR, STAT, PHYS or TSES

10. Sufficient free electives to make 20.0 credits total for the program

### Notes:

1. All students in B.A. Combined Honours Psychology must complete an Honours Project in either Psychology or the other discipline.
2. Students who choose to complete PSYC 4908 or PSYC 4910 to meet Item 7 must also complete Items 2 and 6.
3. For Item 7 above, please consult with an advisor in the Department of Psychology for acceptable alternatives to PSYC 4910 and PSYC 4908. If Item 8 is completed in the other discipline, Items 2 and 6 above may be replaced by credits from the other discipline with the permission of the Department of Psychology. In this case, replacement credits in Psychology must be completed so that a minimum of 7.0 credits in Psychology is presented at graduation.

### Concentration in Cognitive Psychology (3.5 credits)

This concentration is open to all students in the B.A. Honours Psychology or B.Sc. Honours Psychology program. Only one concentration may be taken in a Psychology program. A maximum of 12.0 credits may be counted towards a B.A. or B.Sc. Honours Psychology degree.

1. **0.5 credit in:**
   - **PSYC 2700 [0.5]** Introduction to Cognitive Psychology

### 2. 3.0 credits from:

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<td>PSYC 4910 [1.0]</td>
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### Notes:

1. If PSYC 3901 or PSYC 3902 are presented in partial fulfillment of Item 2 above, the placements must be consistent with the theme of the concentration.
2. If PSYC 4900 or PSYC 4902 are presented in partial fulfillment of Item 2 above, the focus of the independent study must be consistent with the theme of the concentration.
3. If PSYC 4907, PSYC 4908, PSYC 4909 or PSYC 4910 are presented in partial fulfillment of Item 2 above, the focus of the thesis or project must be consistent with the theme of the concentration.

### Concentration in Developmental Psychology (3.5 credits)

This concentration is open to all students in the B.A. Honours Psychology or B.Sc. Honours Psychology program. Only one concentration may be taken in a Psychology program. A maximum of 12.0 credits may be counted towards a B.A. or B.Sc. Honours Psychology degree.

1. **0.5 credit in:**
   - **PSYC 2500 [0.5]** Foundations of Developmental Psychology

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<td>PSYC 3508 [0.5]</td>
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PSYC 3509 [0.5]  Adolescence and Emerging Adulthood
PSYC 3901 [0.5]  Practicum in Community Psychology
PSYC 3902 [0.5]  Practicum in Community Psychology
PSYC 4001 [0.5]  Special Topics in Psychology
PSYC 4500 [0.5]  Advanced Topics in Developmental Psychology
PSYC 4900 [0.5]  Independent Study
PSYC 4902 [0.5]  Independent Study
PSYC 4907 [1.0]  Thesis for B.Sc. with Honours in Psychology
PSYC 4908 [1.0]  Thesis for B.A. with Honours in Psychology
PSYC 4909 [1.0]  Project for B.Sc. with Honours in Psychology
PSYC 4910 [1.0]  Project for B.A. with Honours in Psychology

Total Credits 3.5

Notes:
1. If PSYC 3901 or PSYC 3902 are presented in partial fulfillment of Item 2 above, the placements must be consistent with the theme of the concentration.
2. If PSYC 4900 or PSYC 4902 are presented in partial fulfillment of Item 2 above, the focus of the independent study must be consistent with the theme of the concentration.
3. If PSYC 4907, PSYC 4908, PSYC 4909 or PSYC 4910 are presented in partial fulfillment of Item 2 above, the focus of the thesis or project must be consistent with the theme of the concentration.
4. If PSYC 4001 is presented in partial fulfillment of Item 2 above, the focus of the special topic must be consistent with the theme of the concentration.

Concentration in Forensic Psychology (3.5 credits)
This concentration is open to all students in the B.A. Honours Psychology or B.Sc. Honours Psychology program. Only one concentration may be taken in a Psychology program. A maximum of 12.0 credits may be counted towards a B.A. or B.Sc. Honours Psychology degree.

1. 1.0 credit in:
   PSYC 2400 [0.5]  Introduction to Forensic Psychology
   PSYC 3402 [0.5]  Criminal Behaviour
2. 2.5 credits from:
   PSYC 3400 [1.0]  Forensic Psychology (Honours Seminar)
   PSYC 3403 [0.5]  Addiction
   PSYC 3901 [0.5]  Practicum in Community Psychology
   PSYC 3902 [0.5]  Practicum in Community Psychology
   PSYC 4001 [0.5]  Special Topics in Psychology
   PSYC 4402 [0.5]  Police Psychology
   PSYC 4403 [0.5]  Female Offenders
   PSYC 4404 [0.5]  Sex Offenders

   PSYC 4900 [0.5]  Independent Study
   PSYC 4902 [0.5]  Independent Study
   PSYC 4907 [1.0]  Thesis for B.Sc. with Honours in Psychology
   PSYC 4908 [1.0]  Thesis for B.A. with Honours in Psychology
   PSYC 4909 [1.0]  Project for B.Sc. with Honours in Psychology
   PSYC 4910 [1.0]  Project for B.A. with Honours in Psychology

Total Credits 3.5

Notes:
1. If PSYC 3901 or PSYC 3902 are presented in partial fulfillment of Item 2 above, the placements must be consistent with the theme of the concentration.
2. If PSYC 4900 or PSYC 4902 are presented in partial fulfillment of Item 2 above, the focus of the independent study must be consistent with the theme of the concentration.
3. If PSYC 4907, PSYC 4908, PSYC 4909 or PSYC 4910 are presented in partial fulfillment of Item 2 above, the focus of the thesis or project must be consistent with the theme of the concentration.
4. If PSYC 4001 is presented in partial fulfillment of Item 2 above, the focus of the special topic must be consistent with the theme of the concentration.

Concentration in Health Psychology and Well-Being (3.5 credits)
This concentration is open to all students in the B.A. Honours Psychology or B.Sc. Honours Psychology program. Only one concentration may be taken in a Psychology program. A maximum of 12.0 credits may be counted towards a B.A. or B.Sc. Honours Psychology degree.

1. 0.5 credit in:
   PSYC 2301 [0.5]  Introduction to Health Psychology
2. 3.0 credits from:
   PSYC 3300 [1.0]  Health and Illness (Honours Seminar)
   PSYC 3301 [0.5]  Sport and Performance Psychology
   PSYC 3302 [0.5]  Positive Psychology
   PSYC 3403 [0.5]  Addiction
   PSYC 3604 [0.5]  Clinical Psychology and Mental Illness
   PSYC 3901 [0.5]  Practicum in Community Psychology
   PSYC 3902 [0.5]  Practicum in Community Psychology
   PSYC 4001 [0.5]  Special Topics in Psychology
   PSYC 4900 [0.5]  Independent Study
   PSYC 4902 [0.5]  Independent Study
   PSYC 4907 [1.0]  Thesis for B.Sc. with Honours in Psychology
   PSYC 4908 [1.0]  Thesis for B.A. with Honours in Psychology
   PSYC 4909 [1.0]  Project for B.Sc. with Honours in Psychology
   PSYC 4910 [1.0]  Project for B.A. with Honours in Psychology
PSYC 4910 [1.0]  Project for B.A. with Honours in Psychology

Total Credits 3.5

Notes:
1. If PSYC 3901 or PSYC 3902 are presented in partial fulfillment of Item 2 above, the placements must be consistent with the theme of the concentration.
2. If PSYC 4900 or PSYC 4902 are presented in partial fulfillment of Item 2 above, the focus of the independent study must be consistent with the theme of the concentration.
3. If PSYC 4907, PSYC 4908, PSYC 4909 or PSYC 4910 are presented in partial fulfillment of Item 2 above, the focus of the thesis or project must be consistent with the theme of the concentration.

Concentration in Organizational Psychology (3.5 credits)
This concentration is open to all students in the B.A. Honours Psychology or B.Sc. Honours Psychology program. Only one concentration may be taken in a Psychology program. A maximum of 12.0 credits may be counted towards a B.A. or B.Sc. Honours Psychology degree.

1. 0.5 credit in:
   PSYC 2801 [0.5]  Organizational Psychology I

2. 3.0 credits from:
   PSYC 2100 [0.5]  Introduction to Social Psychology
   PSYC 3801 [0.5]  Organizational Psychology II
   PSYC 3802 [0.5]  Transition to Career
   PSYC 3805 [1.0]  Organizational Psychology (Honours Seminar)
   PSYC 3901 [0.5]  Practicum in Community Psychology
   PSYC 3902 [0.5]  Practicum in Community Psychology
   PSYC 4001 [0.5]  Special Topics in Psychology
   PSYC 4801 [0.5]  Occupational Health Psychology
   PSYC 4900 [0.5]  Independent Study
   PSYC 4902 [0.5]  Independent Study
   PSYC 4907 [1.0]  Thesis for B.Sc. with Honours in Psychology
   PSYC 4908 [1.0]  Thesis for B.A. with Honours in Psychology
   PSYC 4909 [1.0]  Project for B.Sc. with Honours in Psychology
   PSYC 4910 [1.0]  Project for B.A. with Honours in Psychology

Total Credits 3.5

Notes:
1. If PSYC 3901 or PSYC 3902 are presented in partial fulfillment of Item 2 above, the placements must be consistent with the theme of the concentration.
2. If PSYC 4900 or PSYC 4902 are presented in partial fulfillment of Item 2 above, the focus of the independent study must be consistent with the theme of the concentration.
3. If PSYC 4907, PSYC 4908, PSYC 4909 or PSYC 4910 are presented in partial fulfillment of Item 2 above, the focus of the thesis or project must be consistent with the theme of the concentration.

Concentration in Social/Personality Psychology (3.5 credits)
This concentration is open to all students in the B.A. Honours Psychology or B.Sc. Honours Psychology program. Only one concentration may be taken in a Psychology program. A maximum of 12.0 credits may be counted towards a B.A. or B.Sc. Honours Psychology degree.

1. 1.0 credit in:
   PSYC 2100 [0.5]  Introduction to Social Psychology
   PSYC 2600 [0.5]  Introduction to the Study of Personality

2. 2.5 credits from:
   PSYC 3100 [1.0]  Social Psychology (Honours Seminar)
   PSYC 3104 [0.5]  Intergroup Relations: The Psychology of Conflict and Violence
   PSYC 3106 [0.5]  Close Relationships
   PSYC 3302 [0.5]  Positive Psychology
   PSYC 3405 [0.5]  Psychology of Motivation and Emotion
   PSYC 3600 [1.0]  Personality (Honours Seminar)
   PSYC 3603 [0.5]  Psychology of Women
   PSYC 3606 [0.5]  Issues in Personality
   PSYC 4001 [0.5]  Special Topics in Psychology
   PSYC 4900 [0.5]  Independent Study
   PSYC 4902 [0.5]  Independent Study
   PSYC 4907 [1.0]  Thesis for B.Sc. with Honours in Psychology
   PSYC 4908 [1.0]  Thesis for B.A. with Honours in Psychology
   PSYC 4909 [1.0]  Project for B.Sc. with Honours in Psychology
   PSYC 4910 [1.0]  Project for B.A. with Honours in Psychology

Total Credits 3.5

Notes:
1. If PSYC 4001 is presented in partial fulfillment of Item 2 above, the focus of the special topic must be consistent with the theme of the concentration.
2. If PSYC 4900 or PSYC 4902 are presented in partial fulfillment of Item 2 above, the focus of the independent study must be consistent with the theme of the concentration.
3. If PSYC 4907, PSYC 4908, PSYC 4909 or PSYC 4910 are presented in partial fulfillment of Item 2 above, the
focus of the thesis or project must be consistent with
the theme of the concentration.

Psychology
B.A. General (15.0 credits)

A. Credits Included in the Major CGPA (6.0 credits):

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<td>PSYC 1002</td>
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B. Credits Not Included in the Major CGPA (9.0 credits):

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Course Categories for B.Sc. Programs

The program description for B.Sc. Psychology makes use of the course categories defined for all B.Sc. programs (see Academic Regulations for the Bachelor of Science Degree):

• Science Faculty Electives
• Science Continuation Courses
• Free Elective

Psychology
B.Sc. Honours (20.0 credits)

A. Credits Included in the Major CGPA (9.0 credits):

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<td>PSYC at 3000-level or above</td>
<td></td>
</tr>
<tr>
<td>1.0</td>
<td>PSYC at 3000-level or above</td>
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</tr>
</tbody>
</table>

B. Credits Not Included in the Major CGPA (11.0 credits):

<table>
<thead>
<tr>
<th>Credit Level</th>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>MATH 1007</td>
<td>Elementary Calculus I</td>
</tr>
<tr>
<td></td>
<td>MATH 1107</td>
<td>Linear Algebra I</td>
</tr>
<tr>
<td>2.0</td>
<td>BIOL 1103</td>
<td>Foundations of Biology I</td>
</tr>
<tr>
<td></td>
<td>&amp; BIOL 1104</td>
<td>Foundations of Biology II</td>
</tr>
<tr>
<td></td>
<td>CHEM 1001</td>
<td>General Chemistry I</td>
</tr>
<tr>
<td></td>
<td>&amp; CHEM 1002</td>
<td>General Chemistry II</td>
</tr>
<tr>
<td></td>
<td>CHEM 1005</td>
<td>Elementary Chemistry I</td>
</tr>
<tr>
<td></td>
<td>&amp; CHEM 1006</td>
<td>Elementary Chemistry II</td>
</tr>
<tr>
<td></td>
<td>GEOG 1010</td>
<td>Global Environmental Systems</td>
</tr>
<tr>
<td></td>
<td>ERTH 1006</td>
<td>Exploring Planet Earth</td>
</tr>
<tr>
<td></td>
<td>ERTH 1009</td>
<td>The Earth System Through Time</td>
</tr>
<tr>
<td></td>
<td>PHYS 1007</td>
<td>Elementary University Physics I</td>
</tr>
<tr>
<td></td>
<td>&amp; PHYS 1008</td>
<td>Elementary University Physics II</td>
</tr>
</tbody>
</table>
Minor in Psychology

Open to all undergraduate students in programs other than Psychology.

Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PSYC 1001 [0.5]</td>
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<td>PSYC 1002 [0.5]</td>
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<td>PSYC 2001 [0.5]</td>
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</tr>
<tr>
<td>BUSI 2204 [0.5]</td>
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<td>BUSI 2800 [0.5]</td>
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</tr>
<tr>
<td>BUSI 3209 [0.5]</td>
<td>0.5</td>
</tr>
</tbody>
</table>

Total Credits: 5.0

B.A. Regulations

The regulations presented below apply to all Bachelor of Arts programs. In addition to the requirements presented here, students must satisfy the University regulations common to all undergraduate students including the process of Academic Performance Evaluation (consult the Academic Regulations of the University section of this Calendar).

First-Year Seminars

B.A. degree students are strongly encouraged to include a First-Year Seminar (FYSM) during their first 4.0 credits of registration. Students are limited to 1.0 credit in FYSM and can only register in a FYSM while they have first-year standing in their B.A. program. Students who have completed the Enriched Support Program (ESP) or who are required to take a minimum of one English as a Second Language (ESLA) credit are not permitted to register in a FYSM.

Breadth Requirement

Among the credits presented at graduation, students in both the B.A. General and the B.A. Honours degrees and B.Co.M.S. are required to include 3.0 breadth credits, including 1.0 credit from each of three of the four Breadth Areas identified below. Credits that fulfil requirements in the Major, Minor, Concentration or Specialization may be used to fulfil the Breadth Requirement.

Students admitted with a completed university degree are exempt from breadth requirements.

Students in the following interdisciplinary programs are exempt from the B.A. breadth requirement.

- African Studies
- Criminology and Criminal Justice
- Environmental Studies
- Human Rights
- Human Rights and Social Justice

Breadth Area 1: Culture and Communication

American Sign Language, Art History, Art and Culture, Communication and Media Studies, Comparative Literary Studies, Digital Humanities, English, Film Studies, French,
to be eligible to enter a program within their degree before

Normally, Undeclared students are required

section of this Calendar for recommended registration

and B.Sc. degrees. See the Open Studies program

The status “Undeclared” is available only in the B.A.

Declared and Undeclared Students

Degree students are considered “Undeclared” if they

been admitted to a degree but have not yet selected

been accepted into a program within that degree.

The status “Undeclared” is available only in the B.A.

and B.Sc. degrees. See the Open Studies program

section of this Calendar for recommended registration

and B.Sc. degrees. See the Open Studies program

of Permission. Students planning to take courses on

Agreement, or at a francophone university on a Letter

Courses taught in French (Item 3, above) may be taken

3. 1.0 credit at the 2000- or 3000-level and 1.0 credit

French.

Mention : Français

Students registered in certain B.A. programs may earn

the notation Mention : Français by completing part of

their requirements in French and by demonstrating a

knowledge of the history and culture of French Canada.

The general requirements are listed below. For more

specific details consult the departmental program entries.

Students in a B.A. Honours program must present:

1. 1.0 credit in French language;

2. 1.0 credit devoted to the history and culture of French Canada;

3. 1.0 credit at the 2000- or 3000-level and 1.0 credit

at the 4000-level in the Honours discipline taken in

French.

Students in a B.A. General program must present:

1. 1.0 credit in advanced French;

2. 1.0 credit devoted to the history and culture of French Canada;

3. 1.0 credit at the 2000- or 3000-level in the Major

discipline taken in French.

Students in Combined Honours programs must fulfil the

Mention : Français requirement in both disciplines.

Courses taught in French (Item 3, above) may be taken

at Carleton, at the University of Ottawa on the Exchange

Agreement, or at a francophone university on a Letter

of Permission. Students planning to take courses on

exchange or on a Letter of Permission should take

careful note of the residence requirement for a minimum

number of Carleton courses in their programs. Consult

the Academic Regulations of the University section of this
Calendar for information regarding study on Exchange or Letter of Permission.

B.Sc. Regulations

The regulations presented in this section apply to all Bachelor of Science programs. In addition to the requirements presented here, students must satisfy the University regulations common to all undergraduate students including the process of Academic Performance Evaluation (see the Academic Regulations of the University section of this Calendar).

Breadth Requirement for the B.Sc.

Students in Bachelor of Science Honours, Major, or General programs must present the following credits at graduation:

1. 2.0 credits in Science Continuation courses not in the major discipline: students completing a double major are considered to have completed this requirement providing they have 2.0 credits in science continuation courses in each of the two majors
2. 2.0 credits in courses outside of the faculties of Science and Engineering and Design (but may include NSCI 1000)

In most cases, the requirements for individual B.Sc. programs, as stated in this Calendar, contain these requirements, explicitly or implicitly.

Students admitted to B.Sc. programs by transfer from another institution must present at graduation (whether taken at Carleton or elsewhere):

1. 2.0 credits in Science Continuation courses not in the major discipline: students completing a double major are considered to have completed this requirement providing they have 2.0 credits in science continuation courses in each of the two majors
2. 2.0 credits in courses outside of the faculties of Science and Engineering and Design (but may include NSCI 1000) if, on transfer, the student received credit for fewer than 10.0 credits.
3. 1.0 credit in courses outside of the faculties of Science and Engineering and Design (but may include NSCI 1000) if, on transfer, the student received credit for 10.0 or more credits.

Declared and Undeclared Students

Students who are registered in a program within the degree are called Declared students. Most students designate a program of study when they first apply for admission and so begin their studies as Declared students. Students may also choose to begin their studies within the B.Sc. degree without being registered in a program. These students are referred to as Undeclared students. The recommended course pattern for Undeclared students is provided in the Undeclared entry of the Programs section of this Calendar. Undeclared students normally must apply to enter a program before beginning their second year of study. The Science Student Success Centre (SSSC) provides Undeclared students guidance to the appropriate support services in making this decision.

Change of Program within the B.Sc. Degree

Students may transfer to a program within the B.Sc. degree if upon entry to the new program they would be in good academic standing.

Applications to declare or change their program within the B.Sc. Degree must be made online through Carleton Central by completing a Change of Program Elements (COPE) application form within the published deadlines. Acceptance into a program or into a program element or option is subject to any enrolment, and/or specific program, program element or option requirements as published in the relevant Calendar entry.

Minors, Concentrations and Specializations

Students may add a minor, concentration or specialization by completing a Change of Program Elements (COPE) application form online through Carleton Central. Acceptance into a minor, concentration or specialization requires that the student be in Good Standing and is subject to any specific requirements of the intended Minor, Concentration or Specialization as published in the relevant Calendar entry.

Experimental Science Requirement

Students in B.Sc. Honours, Major, or General degree programs must present at graduation at least two full credits of experimental science chosen from two different departments or institutes from the list below:

Approved Experimental Science Courses

<table>
<thead>
<tr>
<th>Biochemistry</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOC 2200 [0.5]</td>
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<tr>
<td>BIOC 4001 [0.5]</td>
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<tr>
<td>BIOC 4201 [0.5]</td>
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</table>

<table>
<thead>
<tr>
<th>Biology</th>
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<tbody>
<tr>
<td>BIOL 1103 [0.5]</td>
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<tr>
<td>BIOL 1104 [0.5]</td>
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<tr>
<td>BIOL 2001 [0.5]</td>
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<tr>
<td>BIOL 2002 [0.5]</td>
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<table>
<thead>
<tr>
<th>Chemistry</th>
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<tbody>
<tr>
<td>CHEM 1001 [0.5]</td>
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<tr>
<td>CHEM 1002 [0.5]</td>
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<td>CHEM 2103 [0.5]</td>
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<td>CHEM 2302 [0.5]</td>
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<td>CHEM 2303 [0.5]</td>
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<table>
<thead>
<tr>
<th>Earth Sciences</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 2800 [0.5]</td>
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</tbody>
</table>

Other applications for change of program will be considered on their merits; students may be accepted in the new program in Good Standing or on Academic Warning.

Applications to declare or change their program within the B.Sc. Degree must be made online through Carleton Central by completing a Change of Program Elements (COPE) application form within the published deadlines. Acceptance into a program or into a program element or option is subject to any enrolment, and/or specific program, program element or option requirements as published in the relevant Calendar entry.

Minors, Concentrations and Specializations

Students may add a minor, concentration or specialization by completing a Change of Program Elements (COPE) application form online through Carleton Central. Acceptance into a minor, concentration or specialization requires that the student be in Good Standing and is subject to any specific requirements of the intended Minor, Concentration or Specialization as published in the relevant Calendar entry.

Experimental Science Requirement

Students in B.Sc. Honours, Major, or General degree programs must present at graduation at least two full credits of experimental science chosen from two different departments or institutes from the list below:

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<tr>
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<tbody>
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<tr>
<td>CHEM 1002 [0.5]</td>
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<td>CHEM 1005 [0.5]</td>
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<thead>
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<td>ERTH 2802</td>
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<td>ERTH 3806</td>
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<td>FOOD 3002</td>
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<td>FOOD 3005</td>
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<td>Geography</td>
</tr>
<tr>
<td>GEOG 1010</td>
</tr>
<tr>
<td>GEOG 3108</td>
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<tr>
<td>Neuroscience</td>
</tr>
<tr>
<td>NEUR 3206</td>
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<td>NEUR 3207</td>
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<td>NEUR 4600</td>
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<tr>
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<td>PHYS 2202</td>
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<td>PHYS 3007</td>
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<td>PHYS 3606</td>
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<td>PHYS 3608</td>
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**Course Categories for B.Sc. Programs**

**Science Geography Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
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</thead>
<tbody>
<tr>
<td>GEOG 1010</td>
<td>Global Environmental Systems</td>
</tr>
<tr>
<td>GEOG 2006</td>
<td>Introduction to Quantitative Research</td>
</tr>
<tr>
<td>GEOG 2013</td>
<td>Weather and Water</td>
</tr>
<tr>
<td>GEOG 2014</td>
<td>The Earth’s Surface</td>
</tr>
<tr>
<td>GEOG 3003</td>
<td>Quantitative Geography</td>
</tr>
<tr>
<td>GEOG 3010</td>
<td>Field Methods in Physical Geography</td>
</tr>
<tr>
<td>GEOG 3102</td>
<td>Geomorphology</td>
</tr>
<tr>
<td>GEOG 3103</td>
<td>Watershed Hydrology</td>
</tr>
<tr>
<td>GEOG 3104</td>
<td>Principles of Biogeography</td>
</tr>
<tr>
<td>GEOG 3105</td>
<td>Climate and Atmospheric Change</td>
</tr>
<tr>
<td>GEOG 3106</td>
<td>Aquatic Science and Management</td>
</tr>
<tr>
<td>GEOG 3108</td>
<td>Soil Properties</td>
</tr>
<tr>
<td>GEOG 4000</td>
<td>Field Studies</td>
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<tr>
<td>GEOG 4005</td>
<td>Directed Studies in Geography</td>
</tr>
<tr>
<td>GEOG 4013</td>
<td>Cold Region Hydrology</td>
</tr>
<tr>
<td>GEOG 4017</td>
<td>Global Biogeochemical Cycles</td>
</tr>
<tr>
<td>GEOG 4101</td>
<td>Two Million Years of Environmental Change</td>
</tr>
<tr>
<td>GEOG 4103</td>
<td>Water Resources Engineering</td>
</tr>
<tr>
<td>GEOG 4104</td>
<td>Microclimatology</td>
</tr>
<tr>
<td>GEOG 4108</td>
<td>Permafrost</td>
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</table>

**Science Psychology Courses**

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<th>Title</th>
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</thead>
<tbody>
<tr>
<td>PSYC 2001</td>
<td>Introduction to Research Methods in Psychology</td>
</tr>
<tr>
<td>PSYC 2002</td>
<td>Introduction to Statistics in Psychology</td>
</tr>
<tr>
<td>PSYC 2700</td>
<td>Introduction to Cognitive Psychology</td>
</tr>
<tr>
<td>PSYC 3000</td>
<td>Design and Analysis in Psychological Research</td>
</tr>
<tr>
<td>PSYC 3506</td>
<td>Cognitive Development</td>
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<tr>
<td>PSYC 3700</td>
<td>Cognition (Honours Seminar)</td>
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<tr>
<td>PSYC 3702</td>
<td>Perception</td>
</tr>
<tr>
<td>PSYC 2307</td>
<td>Human Neuropsychology I</td>
</tr>
<tr>
<td>PSYC 3307</td>
<td>Human Neuropsychology II</td>
</tr>
</tbody>
</table>

**Science Continuation Courses**

A course at the 2000 level or above may be used as a Science Continuation credit in a B.Sc. program if it is not in the student’s major discipline, and is chosen from the following:

- BIOC (Biochemistry)
- BIOL (Biology)
- CHEM (Chemistry)
- COMP (Computer Science) A maximum of two half-credits at the 1000-level in COMP, excluding COMP 1001 may be used as Science Continuation credits.

**Science Faculty Electives**
Science Faculty Electives are courses at the 1000-4000 level chosen from:

- **BIOC (Biochemistry)**
- **BIOL (Biology)** Biology & Biochemistry students may use BIOL 1010 and BIOL 2005 only as free electives
- **CHEM (Chemistry)** except CHEM 1003, CHEM 1004 and CHEM 1007
- **COMP (Computer Science)** except COMP 1001
- **ERTH (Earth Sciences)** except ERTH 1010, ERTH 1011 and ERTH 2415. Earth Sciences students may use ERTH 2401, ERTH 2402, and ERTH 2403 only as free electives.
- **Engineering**
  - ENSC 2001
- **FOOD (Food Science and Nutrition)**
- **GEOM (Geomatics)**
- **HLTH (Health Science)**
- **MATH (Mathematics)**
- **NEUR (Neuroscience)**
- **PHYS (Physics)** except PHYS 1901, PHYS 1902, PHYS 1905, PHYS 2903
- **Science Geography** (see list above)
- **Science Psychology** (see list above)
- **STAT (Statistics)**
- **TSES (Technology, Society, Environment)** Biology General, Major and Honours students may use these courses only as free electives.

### Advanced Science Faculty Electives

Advanced Science Faculty Electives are courses at the 2000-4000 level chosen from the Science Faculty Electives list above.

### Approved Courses Outside the Faculties of Science and Engineering and Design (may include NSCI 1000)

All courses offered by the Faculty of Arts and Social Sciences, the Faculty of Public Affairs, and the Sprott School of Business are approved as Arts or Social Sciences courses EXCEPT FOR: All Science Geography courses (see list above), all Geomatics (GEOM) courses, all Science Psychology courses (see list above). NSCI 1000 may be used as an Approved Course Outside the Faculties of Science and Engineering and Design.

### Free Electives

Any course is allowable as a Free Elective providing it is not prohibited (see below). Students are expected to comply with prerequisite requirements and enrolment restrictions for all courses as published in this Calendar.

### Courses Allowable Only as Free Electives in any B.Sc. Program

- **CHEM 1003 [0.5]** The Chemistry of Food, Health and Drugs
- **CHEM 1004 [0.5]** Drugs and the Human Body
- **CHEM 1007 [0.5]** Chemistry of Art and Artifacts
- **ERTH 1010 [0.5]** Our Dynamic Planet Earth
- **ERTH 1011 [0.5]** Evolution of the Earth
- **ERTH 2415 [0.5]** Natural Disasters
- **ISCI 1001 [0.5]** Introduction to the Environment
- **ISCI 2000 [0.5]** Natural Laws
- **ISCI 2002 [0.5]** Human Impacts on the Environment
- **MATH 0107 [0.5]** Algebra and Geometry
- **PHYS 1901 [0.5]** Planetary Astronomy
- **PHYS 1902 [0.5]** From our Star to the Cosmos
- **PHYS 1905 [0.5]** Physics Behind Everyday Life
- **PHYS 2903 [0.5]** Physics Towards the Future

### Prohibited Courses

The following courses are not acceptable for credit in any B.Sc. program:

- **COMP 1001 [0.5]** Introduction to Computational Thinking for Arts and Social Science Students
- **MATH 0005 [0.5]** Precalculus: Functions and Graphs
- **MATH 0006 [0.5]** Precalculus: Trigonometric Functions and Complex Numbers
- **MATH 1009 [0.5]** Calculus: with Applications to Business
- **MATH 1119 [0.5]** Linear Algebra: with Applications to Business
- **MATH 1401 [0.5]** Elementary Mathematics for Economics I
- **MATH 1402 [0.5]** Elementary Mathematics for Economics II

### Co-operative Education

For more information about how to apply for the Co-op program and how the Co-op program works please visit the Co-op website.

All students participating in the Co-op program are governed by the Undergraduate Co-operative Education Policy.

### Undergraduate Co-operative Education Policy

#### Admission Requirements

Students can apply to co-op in one of two ways; directly from high school or after beginning a degree program at Carleton.

If a student is admitted to co-op from high school, their grades will be reviewed two terms to one year prior to their first work term to ensure they continue to meet the academic requirements after their 1st or 2nd year of study. The time at which evaluation takes place depends on the program of study. Students will automatically be notified via their Carleton email account if they are permitted to continue.

Students not admitted to Carleton University with the co-op option on their degree can apply for admission via the co-operative education program website. To view application deadlines, visit carleton.ca/co-op.

Admission to the co-op option is based on the completion of 5.0 or more credits at Carleton University, the CGPA requirement for the students’ academic program as well as any course prerequisites. The articulated CGPA for each program is the normal standard for assessment. Please see the specific degree program sections for the unique admission and continuation requirements for each academic program.

### English Language Proficiency

Students admitted to Carleton based on CAEL, IELTS or TOEFL assessments and who are required to take an
ESL course must take and pass the Oral Proficiency in Communicative Settings (OPECS) Test. The test must be taken before being permitted to register in COOP 1000. Admission to the co-op program can be confirmed with a minimum score of 4+.

Participation Requirements
COOP 1000
Once a student has been given admission or continuation confirmation to the co-op option s/he must complete and pass COOP 1000 (a mandatory online 0.0 credit course). Students will have access to this course a minimum of two terms prior to their first work term and will be notified when to register.

Communication with the Co-op Office
Students must maintain contact with the co-op office during their job search and while on a work term. All email communication will be conducted via the students' Carleton email account.

Employment
Although every effort is made to ensure a sufficient number of job postings for all students enrolled in the co-op option of their degree program, no guarantee of employment can be made. Carleton's co-op program operates a competitive job search process and is dependent upon current market conditions. Academic performance, skills, motivation, maturity, attitude and potential will determine whether a student is offered a job. It is the student's responsibility to actively conduct a job search in addition to participation in the job search process operated by the co-op office. Once a student accepts a co-op job offer (verbally or written), his/her job search will end and access to co-op jobs will be removed for that term. Students that do not successfully obtain a co-op work term are expected to continue with their academic studies. The summer term is the exception to this rule. Students should also note that hiring priority is given to Canadian citizens for co-op positions in the Federal Government of Canada.

Registering in Co-op Courses
Students will be registered in a Co-op Work Term course while at work. The number of Co-op Work Term courses that a student is registered in is dependent upon the number of four-month work terms that a student accepts.

While on a co-op work term students may take a maximum of 0.5 credit throughout each four-month co-op work term. Courses must be scheduled outside of regular working hours.

Students must be registered as full-time before they begin their co-op job search (2.0 credits). All co-op work terms must be completed before the beginning of the final academic term. Students may not finish their degree on a co-op work term.

Work Term Assessment and Evaluation
To obtain a Satisfactory grade for the co-op work term students must have:
1. A satisfactory work term evaluation by the co-op employer;
2. A satisfactory grade on the work term report.

Students must submit a work term report at the completion of each four-month work term. Reports are due on the 16th of April, August, and December and students are notified of due dates through their Carleton email account.

Workplace performance will be assessed by the workplace supervisor. Should a student receive an unsatisfactory rating from their co-op employer, an investigation by the co-op program manager will be undertaken. An unsatisfactory employer evaluation does not preclude a student from achieving an overall satisfactory rating for the work term.

Graduation with the Co-op Designation
In order to graduate with the co-op designation, students must satisfy all requirements for their degree program in addition to the requirements according to each co-op program (i.e. successful completion of three or four work terms).

Note: Participation in the co-op option will add up to one additional year for a student to complete their degree program.

Voluntary Withdrawal from the Co-op Option
Students may withdraw from the co-op option of their degree program during a study term ONLY. Students at work may not withdraw from the work term or the co-op option until s/he has completed the requirements of the work term.

Students are eligible to continue in their regular academic program provided that they meet the academic standards required for continuation.

Involuntary or Required Withdrawal from the Co-op Option
Students may be required to withdraw from the co-op option of their degree program for one or any of the following reasons:
1. Failure to achieve a grade of SAT in COOP 1000
2. Failure to pay all co-op related fees
3. Failure to actively participate in the job search process
4. Failure to attend all interviews for positions to which the student has applied
5. Declining more than one job offer during the job search process
6. Continuing a job search after accepting a co-op position
7. Dismissal from a work term by the co-op employer
8. Leaving a work term without approval by the Co-op manager
9. Receipt of an unsatisfactory work term evaluation
10. Submission of an unsatisfactory work term report

Standing and Appeals
The Co-op and Career Services office administers the regulations and procedures that are applicable to all co-op program options. All instances of a student's failure during a work term or other issues directly related to their
participation in the co-op option will be reported to the academic department.

Any decision made by the Co-op and Career Services office can be appealed via the normal appeal process within the University.

International Students
All International Students are required to possess a Co-op Work Permit issued by Immigration, Refugees and Citizenship Canada before they can begin working. It is illegal to work in Canada without the proper authorization. Students will be provided with a letter of support to accompany their application. Students must submit their application for their permit before being permitted to view and apply for jobs on the Co-op Services database. Confirmation of a position will not be approved until a student can confirm they have received their permit. Students are advised to discuss the application process and requirements with the International Student Services Office.

B.A. Honours Psychology: Co-op Admission and Continuation Requirements

- Maintain full-time status in each study term (2.0 credits);
- Be eligible to work in Canada (for off-campus work)
- Have successfully completed COOP 1000 [0.0]

In addition to the following:

1. Have an overall minimum CGPA of 9.50 and a major CGPA of 9.5 at the end of first year of academic study
2. Have second-year standing
3. Have successfully completed, by the start-date of the first work term, PSYC 2001 and PSYC 2002

Students in B.A. Honours Psychology must successfully complete three (3) work terms to obtain the Co-op designation.

Work Term Report Course: PSYC 3999

<table>
<thead>
<tr>
<th>Work/Study Pattern</th>
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<tr>
<td>Term</td>
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<td>Fall</td>
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<tr>
<td>Winter</td>
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<tr>
<td>Summer</td>
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Legend
S: Study
W: Work
O: Optional
* indicates recommended work study pattern
** student finds own employer for this work-term.

Admissions Information

Admission Requirements are for the 2019-20 year only, and are based on the Ontario High School System. Holding the minimum admission requirements only establishes eligibility for consideration. The cut-off averages for admission may be considerably higher than the minimum. See also the General Admission and Procedures section of this Calendar. An overall average of at least 70% is normally required to be considered for admission. Some programs may also require specific course prerequisites and prerequisite averages and/or supplementary admission portfolios. Higher averages are required for admission to programs for which the demand for places by qualified applicants exceeds the number of places available. The overall average required for admission is determined each year on a program by program basis. Consult admissions.carleton.ca for further details.

Note: Courses listed as recommended are not mandatory for admission. Students who do not follow the recommendations will not be disadvantaged in the admission process.

Admission Requirements

Degrees
- Bachelor of Arts (B.A.)(Honours)
- Bachelor of Arts (B.A.)(General)

First Year

For B.A. (General) and B.A. (Honours)
The Ontario Secondary School Diploma (OSSD) or equivalent including a minimum of six 4U or M courses. The six 4U or M courses must include a 4U course in English (or anglais ). For applicants whose first language is not English, the requirement of English can also be met under the conditions outlined in the section “English Language Requirements” in the Admissions Requirements and Procedures section of this Calendar.

The cut-off average for admission will be set annually and will normally be above the minimum requirement. Applicants falling slightly below the cut-off average will be considered on an individual basis to determine whether there are special circumstances that would permit their admission. Students who feel that their high school grade average does not reflect their potential may apply to the Enriched Support Program (see the Enriched Support Program section of this Calendar).

Advanced Standing

B.A. (General and Honours) Program

Applications for admission to the second or subsequent years will be assessed on their merits. Advanced standing will be granted only for those courses that are determined to be appropriate.

Direct Admission to the First Year of the Co-op Option

Anthropology and Sociology, English, European and Russian Studies, French, History, Law, Political Science, Psychology

Applicants must:

1. meet the required overall admission cut-off average and prerequisite course average. These averages may be higher than the stated minimum requirements;
2. be registered as a full-time student in the Bachelor of Arts Honours with one of the majors listed above;
3. be eligible to work in Canada (for off-campus work placements).
Meeting the above requirements only establishes eligibility for admission to the program. The prevailing job market may limit enrolment in the co-op option. Students should also note that hiring priority is given to Canadian citizens for co-op positions in the Public Service Commission.

Note: continuation requirements for students previously admitted to the co-op option and admission requirements for the co-op option after beginning the program are described in the Co-operative Education Regulations section of this Calendar.

Admissions Information
Admission Requirements are for the 2019-20 year only, and are based on the Ontario High School System. Holding the minimum admission requirements only establishes eligibility for consideration. The cut-off averages for admission may be considerably higher than the minimum. See also the General Admission and Procedures section of this Calendar. An overall average of at least 70% is normally required to be considered for admission. Some programs may also require specific course prerequisites and prerequisite averages and/or supplementary admission portfolios. Higher averages are required for admission to programs for which the demand for places by qualified applicants exceeds the number of places available. The overall average required for admission is determined each year on a program by program basis. Consult admissions.carleton.ca for further details.

Note: Courses listed as recommended are not mandatory for admission. Students who do not follow the recommendations will not be disadvantaged in the admission process.

Degrees
• B.Sc. (Honours)
• B.Sc. (General)
• B.Sc. (Major)

Admission Requirements
Honours Program
First Year
The Ontario Secondary School Diploma (OSSD) or equivalent including a minimum of six 4U or M courses. For most programs including Biochemistry, Bioinformatics, Biotechnology, Chemistry, Combined Honours in Biology and Physics, Chemistry and Physics, Computational Biochemistry, Food Science, Nanoscience, Neuroscience, Neuroscience and Mental Health, and Psychology, the six 4U or M courses must include Advanced Functions and two of Biology, Chemistry, Earth and Space Sciences or Physics. (Calculus and Vectors is strongly recommended).

Specific Honours Admission Requirements
For the Honours programs in Earth Sciences, Environmental Science, Geomatics, Interdisciplinary Science and Practice, and Physical Geography, Calculus and Vectors may be substituted for Advanced Functions.

For the Honours programs in Physics and Applied Physics and for double Honours in Mathematics and Physics, Calculus and Vectors is required in addition to Advanced Functions and one of 4U Physics Chemistry, Biology, or Earth and Space Sciences. For all programs in Physics, 4U Physics is strongly recommended.

For the Combined Honours program in Chemistry and Computer Science, 4U Chemistry and Calculus and Vectors are strongly recommended.

For Honours in Psychology, a 4U course in English is recommended.

For Honours in Environmental Science, a 4U course in Biology and Chemistry is recommended.

Advanced Standing
For entry to an Honours program after the completion of 5.0 included credits, a student must have a major CGPA of 5.50 or higher, an overall CGPA of 4.50 or higher and the recommendation of the Honours department or committee. A student beginning the final 10.0 credits towards an Honours degree must present a major CGPA of 6.00 or higher, an overall CGPA of 5.00 or higher and the recommendation of the Honours department or committee. A student beginning the final 5.0 credits towards an Honours degree must present a major CGPA of 6.50 or higher and an overall CGPA of 5.00 or higher, as calculated for graduation. Advanced standing will be granted for studies undertaken elsewhere where these are recognized as the equivalent of subjects offered at Carleton University.

Major Program
General Program
First Year
The Ontario Secondary School Diploma (OSSD) or equivalent including a minimum of six 4U or M courses. The six 4U or M courses must include Advanced Functions and two of Calculus and Vectors, Biology, Chemistry, Earth and Space Science or Physics (Calculus and Vectors is strongly recommended). For the B.Sc. Major in Physics, 4U Physics is strongly recommended. Equivalent courses may be substituted between the old and new Ontario mathematics curriculum.

Advanced Standing
For entry to a General or Major program after the completion of 5.0 included credits, a student must have a major and core CGPA of 3.50 or higher and an overall CGPA of 3.50 or higher. A student beginning the final 5.0 credits towards a General or Major degree must present a major and core CGPA of 4.00 or higher and an overall CGPA of 4.00 or higher, as calculated for graduation. Advanced standing will be granted for studies undertaken elsewhere where these are recognized as the equivalent of subjects offered at Carleton University.

Co-op Option
Direct Admission to the First Year of the Co-op Option
Applicants must:
1. meet the required overall admission cut-off average and prerequisite course average. These averages may be higher than the stated minimum requirements;
2. be registered as a full-time student in the Bachelor of Science Honours program;
3. be eligible to work in Canada (for off-campus work placements).

Note that meeting the above requirements only establishes eligibility for admission to the program. The prevailing job market may limit enrolment in the co-op option.

Note: continuation requirements for students previously admitted to the co-op option and admission requirements for the co-op option after beginning the program are described in the Co-operative Education Regulations section of this Calendar.

Psychology (PSYC) Courses

**PSYC 1001 [0.5 credit]**
Introduction to Psychology I
A survey of topics associated with psychology's role as a natural science, including neuroscience, cognition, and learning.
Precludes additional credit for PSYC 1000.
Lecture three hours a week.

**PSYC 1002 [0.5 credit]**
Introduction to Psychology II
A survey of topics associated with psychology's role as a social science, including social psychology, personality and abnormal psychology.
Precludes additional credit for PSYC 1000.
Prerequisite(s): PSYC 1001.
Lecture three hours a week.

**PSYC 2001 [0.5 credit]**
Introduction to Research Methods in Psychology
A general introduction to research methodologies employed within contemporary psychology. Topics covered include research designs (experimental, quasi-experimental) and techniques (observations, surveys), basic descriptive statistics, and how to interpret and report research findings.
Precludes additional credit for NEUR 2001 and PSYC 2000 (no longer offered).
Prerequisite(s): PSYC 1001 and PSYC 1002.
Lecture three hours a week and two online laboratories.

**PSYC 2002 [0.5 credit]**
Introduction to Statistics in Psychology
A general introduction to statistical techniques employed within contemporary psychology. Topics include basic data analysis using descriptive and inferential statistics (t-tests, ANOVA, correlation, chi-square).
Precludes additional credit for NEUR 2002.
Prerequisite(s): PSYC 1001, PSYC 1002, and PSYC 2001.
Lecture three hours a week and two online laboratories.

**PSYC 2100 [0.5 credit]**
Introduction to Social Psychology
Introduction to contemporary theory and research in social psychology. Areas covered include attitude structure and change, small groups and social learning.
Precludes additional credit for SOCI 2150.
Prerequisite(s): PSYC 1001 and PSYC 1002.
Lectures three hours a week.

**PSYC 2301 [0.5 credit]**
Introduction to Health Psychology
Using a multidisciplinary approach, this introductory course outlines the reciprocal interactions among physical health and illness, and psychological factors, including emotional well-being, coping and appraisal processes.
Precludes additional credit for PSYC 3406.
Prerequisite(s): PSYC 1001 and PSYC 1002.
Lectures and seminars three hours a week.

**PSYC 2307 [0.5 credit]**
Human Neuropsychology I
Introduction to the principles and research techniques used to understand the relationships amongst brain, behaviour and cognition in humans. Emphasis will be given to the concepts and methods used to study topics in the core research areas of the Psychology Department.
Prerequisite(s): PSYC 1001 and PSYC 1002.
Lectures three hours a week.

**PSYC 2400 [0.5 credit]**
Introduction to Forensic Psychology
Forensic psychology, including a critical review of theories, methods, and research findings. Topics covered may include development of offending, eyewitness testimony, victim studies, risk assessment, offender rehabilitation, offender classification, and police studies.
Prerequisite(s): PSYC 1001 and PSYC 1002.
Lectures three hours a week.

**PSYC 2500 [0.5 credit]**
Foundations of Developmental Psychology
Basic principles of developmental psychology with a concentration on theories and methods. Emphasis is on the psychology of childhood.
Prerequisite(s): PSYC 1001 and PSYC 1002.
Lectures three hours a week.

**PSYC 2600 [0.5 credit]**
Introduction to the Study of Personality
Introduction to the study of personality. Consideration of problems, methods and theories.
Prerequisite(s): PSYC 1001 and PSYC 1002.
Lectures three hours a week.
PSYC 2700 [0.5 credit]
Introduction to Cognitive Psychology
Introduction to cognitive processes, including a survey of theories, issues, methods and findings. Topics covered may include pattern recognition, attention, imagery, learning (animal and human), memory, language, and thinking.
Prerequisite(s): PSYC 1001 and PSYC 1002.
Lectures three hours a week.

PSYC 2801 [0.5 credit]
Organizational Psychology I
Introduction to the study of individual and group behaviour in organizational settings. Topics may include understanding work-related attitudes, behaviour, motivation, and stress, personnel selection, personality in the workplace, organizational justice, and leadership.
Precludes additional credit for PSYC 3105, PSYC 3803 (no longer offered).
Prerequisite(s): PSYC 1001 and PSYC 1002.
Lectures three hours per week.

PSYC 3000 [1.0 credit]
Design and Analysis in Psychological Research
Techniques in data analysis, probability theory, sampling distribution theory and the ideas and procedures of estimation, classical and Bayesian approaches to hypothesis testing, linear regression and curve fitting, distribution free hypothesis testing, and the analysis of variance methods in experimental design. Limited enrolment.
Includes: Experiential Learning Activity
Prerequisite(s): PSYC 2001, PSYC 2002, and third-year standing. Intended for Honours students in Psychology.
Lectures and tutorial four hours a week.

PSYC 3100 [1.0 credit]
Social Psychology (Honours Seminar)
Analysis of historical and contemporary developments in social psychology theory, research and methodology. Students may be required to complete independent research projects. Intended for Honours students.
Includes: Experiential Learning Activity
Prerequisite(s): enrolment in Honours Psychology with a CGPA of 9.00 or higher in the major; PSYC 2001 and PSYC 2002, PSYC 2100, third-year standing and permission of the Department.
Lectures, seminars and tutorials six hours a week.

PSYC 3104 [0.5 credit]
Intergroup Relations: The Psychology of Conflict and Violence
In-depth coverage of the social psychology of relations within and between large societal groups. Topics may include social identity, stereotyping, prejudice, and intergroup emotions, with emphasis on their role in promoting conflict and paths to pro-social intergroup relations.
Also listed as SOWK 3103.
Precludes additional credit for PSYC 3103 (no longer offered).
Prerequisite(s): PSYC 2100.
Lectures three hours per week.

PSYC 3106 [0.5 credit]
Close Relationships
A consideration of relationship science, with a focus on social psychological theory and empirical approaches to the study of close relationships such as dating and marital relationships, and friendships. Topics may include relationship initiation, relationship maintenance, and coping with the dissolution of relationships.
Prerequisite(s): PSYC 2100.
Lectures three hours per week.

PSYC 3300 [1.0 credit]
Health and Illness (Honours Seminar)
Theoretical and empirical approaches within the psychology of health and illness. A multidisciplinary perspective includes the interaction of biological, developmental, personality, and social factors and their influence on physical health, well-being, and illness. Students may be required to complete independent research projects.
Includes: Experiential Learning Activity
Prerequisite(s): third-year standing in Honours Psychology with a CGPA of 9.00 or higher in the major; PSYC 2001 and PSYC 2002; one of PSYC 2301 or PSYC 2307; one of PSYC 2100, PSYC 2500, or PSYC 2600, and permission of the Department.
Lectures, seminars, and laboratory tutorials six hours a week.

PSYC 3301 [0.5 credit]
Sport and Performance Psychology
How psychological processes influence outcomes across sport and performance environments. Topics may include self-confidence, goal-setting, arousal regulation, imagery, group dynamics, burnout, injury recovery, and how person and situational factors affect the pursuit of excellence.
Prerequisite(s): one of PSYC 2100, PSYC 2301, PSYC 2500, PSYC 2600.
Lectures three hours a week.
PSYC 3302 [0.5 credit]
Positive Psychology
A review of theoretical, historical, and empirical scholarship in positive psychology. Drawing widely across traditional sub-disciplines, content focuses on human strengths, well-being, resilience, and virtue to understand internal, external, and developmental contributors to health and happiness.
Prerequisite(s): one of PSYC 2100, PSYC 2301, PSYC 2500 or PSYC 2600.
Lectures three hours a week.

PSYC 3307 [0.5 credit]
Human Neuropsychology II
Organization of the human cerebral cortex and its relationship to behaviour and thought. Principles of cortical function and techniques used to discover them; assessment of the major functional characteristics of the frontal, temporal, parietal and occipital lobes, cortical asymmetry and brain damage.
Precludes additional credit for PSYC 3207 (no longer offered).
Prerequisite(s): PSYC 2307.
Lectures three hours a week.

PSYC 3400 [1.0 credit]
Forensic Psychology (Honours Seminar)
Theoretical and research methodologies in the study of forensic psychology are examined through a detailed consideration of selected topics. Students may be required to complete independent research projects.
Includes: Experiential Learning Activity
Prerequisite(s): third-year standing in the Honours Psychology program with a CGPA of 9.00 in the Major; PSYC 2001, PSYC 2002, PSYC 2400 and permission of the department.
Lectures, seminars and laboratory tutorials six hours a week.

PSYC 3402 [0.5 credit]
Criminal Behaviour
Psychosocial approaches to the classification and treatment of offenders; theories and research relevant to selected patterns of law breaking and selected offender types; the effectiveness of offender treatment.
Prerequisite(s): one of PSYC 2100, PSYC 2400, or PSYC 2600.
Lectures and seminars three hours a week.

PSYC 3403 [0.5 credit]
Addiction
Neurobiological and social bases of drug and behavioural addictions. Contemporary theoretical approaches to addiction; approaches to current prevention and treatment.
Prerequisite(s): PSYC 1001, PSYC 1002 and one of PSYC 2301, PSYC 2307, PSYC 2400.
Lectures three hours a week.

PSYC 3405 [0.5 credit]
Psychology of Motivation and Emotion
Historical review of the concepts of motivation and emotion. Examination of such current concepts as anxiety, stress and depression, among the emotions, and obesity, sexual behaviour and the need to achieve, among the motivations.
Prerequisite(s): PSYC 1001 and PSYC 1002.
Lectures and seminars three hours a week.

PSYC 3500 [1.0 credit]
Developmental Psychology (Honours Seminar)
The major theoretical and empirical approaches within developmental psychology are examined through a detailed consideration of selected topics. Students may be required to complete independent research projects.
Intended for Honours students.
Includes: Experiential Learning Activity
Prerequisite(s): third-year standing in the Honours Psychology program with a CGPA of 9.00 or higher in the Major; PSYC 2001, PSYC 2002, PSYC 2500, and permission of the Department.
Lectures, seminars and laboratory tutorials six hours a week.

PSYC 3505 [0.5 credit]
Exceptional Children
An overview of childhood exceptionalities including intellectual differences, communication disorders, sensory and physical impairments, developmental and behavioural problems.
Prerequisite(s): PSYC 2500.
Lectures and seminars three hours a week.

PSYC 3506 [0.5 credit]
Cognitive Development
Human cognitive development is examined with a focus on memory, thinking and language through the life span. Topics may include perceptual and language development, emergent literacy, development of strategies and development of reading and arithmetic skills.
Prerequisite(s): PSYC 2500 or PSYC 2700.
Lectures three hours a week.

PSYC 3507 [0.5 credit]
Social Development
Development of the individual with a focus on social cognition and social behaviour. Topics may include the role of temperament in development, parental roles, siblings and peers in social/emotional development, development of prosocial and aggressive behaviour, moral development and development of self and other understanding.
Prerequisite(s): PSYC 2500.
Lectures three hours a week.
PSYC 3508 [0.5 credit]
Child Language
Milestones associated with the development of grammatical, pragmatic and metalinguistic competence from birth to about age ten, and the relative contributions of the environment, cognitive development and inborn knowledge to this development.
Includes: Experiential Learning Activity
Also listed as LING 3603.
Prerequisite additional credit for LALS 2603 (no longer offered).
Prerequisite(s): LALS 1000 or LALS 1001 or LING 1001 or PSYC 2700 and second-year standing, or permission of the instructor.
Lectures three hours per week.

PSYC 3509 [0.5 credit]
Adolescence and Emerging Adulthood
The physical, cognitive, social and moral development of adolescents and emerging adults in multiple contexts including family, peers, media and culture. Major theories and contemporary issues and concerns.
Prerequisite(s): PSYC 2500.
Lectures three hours a week.

PSYC 3600 [1.0 credit]
Personality (Honours Seminar)
Theories of personality and current controversies in the research literature. Research questions are developed and addressed by designing and conducting experiments to find answers to issues in personality psychology.
Includes: Experiential Learning Activity
Prerequisite(s): third-year standing in the Psychology Honours program with a CGPA of 9.00 in the Major; PSYC 2001, PSYC 2002, and PSYC 2600, and permission of the Department.
Lectures, seminars and laboratory tutorials six hours a week.

PSYC 3603 [0.5 credit]
Psychology of Women
An examination of the literature on the psychology of women. Topics to be considered include: theories of female personality development, sex differences in ability and personality, biological influences on female behaviour, female sexuality, sex roles, women's roles throughout the life span.
Prerequisite(s): one of PSYC 2100, PSYC 2500, or PSYC 2600.
Lectures three hours a week.

PSYC 3604 [0.5 credit]
Clinical Psychology and Mental Illness
History of the concept of mental illness. Theory and selected research dealing with the nature and etiology of mental illness.
Prerequisite(s): PSYC 2600 or PSYC 2500.
Lectures three hours a week.

PSYC 3606 [0.5 credit]
Issues in Personality
Topics selected from areas of interest in Personality. When offered, detailed topic descriptions are available from the departmental office prior to registration.
Prerequisite(s): PSYC 2001, PSYC 2002, and PSYC 2600.
Lectures three hours a week.

PSYC 3700 [1.0 credit]
Cognition (Honours Seminar)
Issues and research methodologies in the study of cognitive processes involved in perception, attention, language, reasoning, problem solving, decision making, human learning, and memory. Major theoretical issues and empirical studies are explored.
Includes: Experiential Learning Activity
Prerequisite(s): third-year standing in the Honours Psychology program with a CGPA of 9.00 in the Major; PSYC 2001, PSYC 2002, PSYC 2700, and permission of the Department.
Lectures, seminars, and laboratory tutorials six hours a week.

PSYC 3702 [0.5 credit]
Perception
A consideration of data and theory concerning perceptual processes. Discussion of psychophysical methodology, perception of form and space and perceptual learning.
Prerequisite(s): NEUR 3202.
Lectures three hours a week.

PSYC 3709 [0.5 credit]
Language Processing and the Brain
Introduction to adult language processing and neurolinguistics. Psychological processes underlying speech production and perception, word recognition and sentence processing. Biological foundation and neuro-cognitive mechanisms of language. Experimental techniques and methodologies of current psycholinguistic studies.
Includes: Experiential Learning Activity
Also listed as LING 3601.
Precludes additional credit for LALS 2601 and LALS 3601 (no longer offered).
Prerequisite(s): LALS 1000 or LALS 1001 or LING 1001 or PSYC 2700 and second-year standing, or permission of the instructor.
Lectures three hours a week.
PSYC 3710 [0.5 credit]
Introduction to Human Factors
Theoretical foundation, philosophy and practical application of techniques for analyzing from a psychological perspective how people interact with designed environments. A major goal is to determine how these environments should be designed to suit human capabilities.
Precludes additional credit for PSYC 2800 (no longer offered).
Prerequisite(s): PSYC 2001 and PSYC 2002.
Lecture three hours a week.

PSYC 3801 [0.5 credit]
Organizational Psychology II
Advanced coverage of the current theory and practices in Organizational Psychology. Selected topics may include workplace socialization, job attitudes, deviant work behaviours, leadership, teams and group dynamics, work-related stress and health, and organizational change and development.
Prerequisite(s): PSYC 2801.
Lectures three hours per week.

PSYC 3802 [0.5 credit]
Transition to Career
Examines traditional and current models in career psychology. Topics may include the concepts of change and transitions, self-assessments, vocational psychology, and workplace onboarding. Students will have the opportunity to examine their personal and professional transition from university to the work world.
Includes: Experiential Learning Activity
Prerequisite(s): third or fourth year standing in Psychology.
Lectures and seminars three hours a week.

PSYC 3805 [1.0 credit]
Organizational Psychology (Honours Seminar)
This course provides the opportunity for an in-depth study and analysis of organizational psychology theory and research. Major theoretical issues, controversies and empirical approaches are explored, and developments in theory, research and methodology are discussed.
Prerequisite(s): third-year standing in Honours Psychology with a CGPA of 9.0 or higher in the major; PSYC 2001 and PSYC 2002; one of PSYC 2100 or PSYC 2801, and permission of the Department.
Lectures, seminars and tutorials, 6 hours per week.

PSYC 3901 [0.5 credit]
Practicum in Community Psychology
Through seven-hour-a-week field placements and regular class forums, students pursue personal learning objectives concerning the application of psychology within the community. A term paper integrates experiential knowledge gained in the placement with theoretical and empirical knowledge gained from the literature review.
Includes: Experiential Learning Activity
Prerequisite(s): open to third- and fourth-year Psychology students with permission of the Department.

PSYC 3902 [0.5 credit]
Practicum in Community Psychology
Through seven-hour-a-week field placements and regular class forums, students pursue personal learning objectives concerning the application of psychology within the community. A term paper integrates experiential knowledge gained in the placement with theoretical and empirical knowledge gained from the literature review.
Includes: Experiential Learning Activity
Prerequisite(s): open to third- and fourth-year Psychology students with permission of the Department.

PSYC 3999 [0.0 credit]
Co-operative Work Term
Co-operative Work Term.
Includes: Experiential Learning Activity

PSYC 4001 [0.5 credit]
Special Topics in Psychology
Each section of PSYC 4001 deals with a different topic. Topics change yearly. Students may register in more than one section of PSYC 4001 but can register in each section only once.
Prerequisite(s): each section will have its own.
Lectures three hours a week.

PSYC 4003 [0.5 credit]
Origins of Modern Psychology
An overview of the evolution of psychology, with an emphasis on psychology as a specialized area of knowledge and practice in the late-nineteenth and twentieth centuries. Topics covered may include the history of a particular period, content area, or cultural context.
Precludes additional credit for PSYC 2003.
Prerequisite(s): third or fourth-year standing in a Psychology Honours program.
Lectures and seminars three hours per week.

PSYC 4402 [0.5 credit]
Police Psychology
Critical examination of theory and empirical research in the area of police psychology. Topics covered may include police culture, police selection, police suicide, police personality, stress debriefing, fitness evaluations, police training, crisis negotiations, and investigative techniques.
Prerequisite(s): PSYC 2400 and third- or fourth-year standing.
Lecture and seminar three hours per week.

PSYC 4403 [0.5 credit]
Female Offenders
Feminist and social learning approaches to the assessment and treatment of female offenders. Theories and research relevant to selected patterns of law breaking and selected female offender types.
Prerequisite(s): PSYC 3402 and third- or fourth-year standing.
Seminars three hours a week.
PSYC 4404 [0.5 credit]
Sex Offenders
Theory and research concerning the etiology and maintenance of sexual offending; assessment, treatment, and management of sex offenders. Introduction to fundamental issues and controversies in the area.
Prerequisite(s): PSYC 2400, PSYC 3402, and third- or fourth-year standing.
Seminars three hours a week.

PSYC 4500 [0.5 credit]
Advanced Topics in Developmental Psychology
Discussion of important current research in developmental psychology. In-depth exploration of theoretical and empirical issues related to selected topics in developmental psychology. The specific content for this course will vary from year to year.
Prerequisite(s): fourth-year standing, and one of PSYC 3500, PSYC 3505, PSYC 3506 or PSYC 3507.
Lecture and seminar three hours a week.

PSYC 4700 [0.5 credit]
Advanced Topics in Cognitive Psychology
In-depth exploration of theoretical and empirical issues related to selected topics in cognitive psychology. The specific content for this course will vary from year to year.
Prerequisite(s): fourth-year standing, and one of CGSC 3201, PSYC 2700, PSYC 3307, PSYC 3506, PSYC 3508, PSYC 3700, PSYC 3702, or PSYC 3709.
Lecture and seminar three hours a week.

PSYC 4801 [0.5 credit]
Occupational Health Psychology
The application of psychological knowledge to enhance employee physical and mental health, safety and well-being, and more broadly, to enrich organizational life. Students will be able to learn and analyze critically the relevant methodological, theoretical, and empirical Occupational Health Psychology literature.
Prerequisite(s): third or fourth-year standing and one of PSYC 2100, PSYC 2301, or PSYC 2801.
Seminars three hours a week.

PSYC 4900 [0.5 credit]
Independent Study
A reading or research course for selected students who wish to investigate a particular topic of interest. Normally students may not offer more than one credit of independent study in their total program.
Includes: Experiential Learning Activity
Prerequisite(s): Third or fourth-year standing and permission of the Department.

PSYC 4902 [0.5 credit]
Independent Study
A reading or research course for selected students who wish to investigate a particular topic of interest. Normally students may not offer more than one credit of independent study in their total program.
Includes: Experiential Learning Activity
Prerequisite(s): Third or fourth-year standing and permission of the Department.

PSYC 4907 [1.0 credit]
Thesis for B.Sc. with Honours in Psychology
Open to all candidates for the B.Sc. degree with Honours in Psychology. A thesis project is conducted under the direct supervision of a Faculty Adviser from the Department of Psychology.
Includes: Experiential Learning Activity
Precludes additional credit for PSYC 4906 (no longer offered).
Prerequisite(s): fourth-year Honours standing in Psychology with a major CGPA of 10.0; PSYC 3000, one of PSYC 3100, PSYC 3300, PSYC 3400, PSYC 3500, PSYC 3600, or PSYC 3700, or PSYC 3805; and permission of the Department.
Lectures as scheduled by the instructor; other hours as arranged with the Faculty Adviser.

PSYC 4908 [1.0 credit]
Thesis for B.A. with Honours in Psychology
Open to all candidates for the B.A. (Honours) in Psychology. A thesis project is conducted under the direct supervision of a Faculty Adviser from the Department of Psychology.
Includes: Experiential Learning Activity
Precludes additional credit for PSYC 4905.
Prerequisite(s): fourth-year Honours standing in Psychology with a major CGPA of 10.0, PSYC 3000; one of PSYC 3100, PSYC 3300, PSYC 3400, PSYC 3500, PSYC 3600, PSYC 3700 or PSYC 3805; and permission of the Department.
Lectures as scheduled by the instructor; other hours as arranged with the Faculty Adviser.

PSYC 4909 [1.0 credit]
Project for B.Sc. with Honours in Psychology
Within the context of an active learning environment, students develop a variety of oral presentations and written documents that may include annotated bibliographies, essays, presentation slides, and posters. Each project is focused on an area of psychological research that is of interest to the student.
Includes: Experiential Learning Activity
Precludes additional credit for PSYC 4906 (no longer offered), PSYC 4907, and PSYC 4908.
Prerequisite(s): fourth-year standing in B.Sc. (Honours) in Psychology, PSYC 3000, 1.0 additional credit in Psychology above the 2000-level.
PSYC 4910 [1.0 credit]
Project for B.A. with Honours in Psychology
Within the context of an active learning environment, students develop a variety of oral presentations and written documents that may include annotated bibliographies, essays, presentation slides, and posters. Each project is focused on an area of psychological research that is of interest to the student.
Includes: Experiential Learning Activity
Precludes additional credit for PSYC 4905 (no longer offered), PSYC 4907 and PSYC 4908.
Prerequisite(s): fourth-year standing in B.A. (Honours) in Psychology, PSYC 3000, 1.0 additional credit in Psychology above the 2000-level.

Summer session: some of the courses listed in this Calendar are offered during the summer. Hours and scheduling for summer session courses will differ significantly from those reported in the fall/winter Calendar. To determine the scheduling and hours for summer session classes, consult the class schedule at central.carleton.ca

Not all courses listed are offered in a given year. For an up-to-date statement of course offerings for the current session and to determine the term of offering, consult the class schedule at central.carleton.ca