Linguistics (Bachelor of Science)

This section presents the requirements for programs in:

- B.Sc. Honours in Linguistics with a Concentration in Linguistic Theory (Computer Science)
- B.Sc. Honours in Linguistics with a Concentration in Linguistic Theory (Neuroscience)
- B.Sc. Honours in Linguistics with a Concentration in Linguistic Theory (Psychology)
- B.Sc. Honours in Linguistics with a Concentration in Psycholinguistics and Communication Disorders (Computer Science)
- B.Sc. Honours in Linguistics with a Concentration in Psycholinguistics and Communication Disorders (Neuroscience)
- B.Sc. Honours in Linguistics with a Concentration in Psycholinguistics and Communication Disorders (Psychology)

B.Sc. Honours in Linguistics with a Concentration in Linguistic Theory (Computer Science) (20.0 credits)

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

1. 1.0 credit in:
   - ALDS 1001 [0.5] Language Matters: Introduction to ALDS
   - LING 1001 [0.5] Introduction to Linguistics I

2. 1.0 credit in:
   - LING 2005 [0.5] Linguistic Analysis
   - LING 2007 [0.5] Phonetics

3. 1.0 credit in:
   - LING 3004 [0.5] Syntax I
   - LING 3007 [0.5] Phonology I

4. 1.0 credit in LING at the 4000-level

5. 1.5 credits in LING, excluding LING 1100

6. 3.5 credits from the Concentration
   a. 1.0 credit in:
      - LING 3005 [0.5] Morphology I
      - LING 3505 [0.5] Semantics
   b. 1.0 credit from:
      - LING 4004 [0.5] Syntax II
      - LING 4005 [0.5] Morphology II
      - LING 4007 [0.5] Phonology II
      - LING 4505 [0.5] Formal Semantics
      - LING 4510 [0.5] Lexical Semantics
   c. 1.5 credits in LING, excluding LING 1100

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

7. 4.0 credits in Computer Science Requirements
   a. 1.5 credits in:
      - COMP 1005 [0.5] Introduction to Computer Science I
      - COMP 1006 [0.5] Introduction to Computer Science II
      - COMP 1805 [0.5] Discrete Structures I
   b. 1.5 credits in:

B.Sc. Honours in Linguistics with a Concentration in Linguistic Theory (Neuroscience) (20.0 credits)

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

1. 1.0 credit in:
   - ALDS 1001 [0.5] Language Matters: Introduction to ALDS
   - LING 1001 [0.5] Introduction to Linguistics I

2. 1.0 credit in:
   - LING 2005 [0.5] Linguistic Analysis
   - LING 2007 [0.5] Phonetics

3. 1.0 credit in:
   - LING 3004 [0.5] Syntax I
   - LING 3007 [0.5] Phonology I

4. 1.0 credit in LING at the 4000-level

5. 1.5 credits in LING, excluding LING 1100

6. 3.5 credits from the Concentration
   a. 1.0 credit in:
      - LING 3005 [0.5] Morphology I
      - LING 3505 [0.5] Semantics
   b. 1.0 credit from:
      - LING 4004 [0.5] Syntax II
      - LING 4005 [0.5] Morphology II
      - LING 4007 [0.5] Phonology II
      - LING 4505 [0.5] Formal Semantics
      - LING 4510 [0.5] Lexical Semantics
   c. 1.5 credits in LING, excluding LING 1100

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

7. 4.0 credits in Neuroscience
   a. 2.0 credits in:

7. 4.0 credits in Neuroscience
   a. 2.0 credits in:
      - COMP 2401 [0.5] Introduction to Systems Programming
      - COMP 2402 [0.5] Abstract Data Types and Algorithms
      - COMP 2404 [0.5] Introduction to Software Engineering
      - COMP 2406 [0.5] Fundamentals of Web Applications
      - COMP 2804 [0.5] Discrete Structures II
      - COMP 3000 [0.5] Operating Systems
      - COMP 3002 [0.5] Compiler Construction
      - COMP 3004 [0.5] Object-Oriented Software Engineering
      - COMP 3005 [0.5] Database Management Systems
      - COMP 3007 [0.5] Programming Paradigms
      - COMP 3008 [0.5] Human-Computer Interaction
      - MATH 1007 [0.5] Elementary Calculus I
      - MATH 1107 [0.5] Linear Algebra I

9. 6.0 credits in free electives

C. Additional Requirements

10. School Language Proficiency Requirement must be satisfied
11. Bachelor of Science Experimental Science Requirement must be satisfied

Total Credits 20.0

B.Sc. Honours in Linguistics with a Concentration in Linguistic Theory (Psychology) (20.0 credits)

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

1. 1.0 credit in:
   - ALDS 1001 [0.5] Language Matters: Introduction to ALDS
   - LING 1001 [0.5] Introduction to Linguistics I

2. 1.0 credit in:
   - LING 2005 [0.5] Linguistic Analysis
   - LING 2007 [0.5] Phonetics

3. 1.0 credit in:
   - LING 3004 [0.5] Syntax I
   - LING 3007 [0.5] Phonology I

4. 1.0 credit in LING at the 4000-level

5. 1.5 credits in LING, excluding LING 1100

6. 3.5 credits from the Concentration
   a. 1.0 credit in:
      - LING 3005 [0.5] Morphology I
      - LING 3505 [0.5] Semantics
   b. 1.0 credit from:
      - LING 4004 [0.5] Syntax II
      - LING 4005 [0.5] Morphology II
      - LING 4007 [0.5] Phonology II
      - LING 4505 [0.5] Formal Semantics
      - LING 4510 [0.5] Lexical Semantics
   c. 1.5 credits in LING, excluding LING 1100

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

7. 4.0 credits in Computer Science Requirements
   a. 1.5 credits in:
      - COMP 1005 [0.5] Introduction to Computer Science I
      - COMP 1006 [0.5] Introduction to Computer Science II
      - COMP 1805 [0.5] Discrete Structures I
   b. 1.5 credits in:

7. 4.0 credits in Computer Science Requirements
   a. 1.5 credits in:
      - COMP 1005 [0.5] Introduction to Computer Science I
      - COMP 1006 [0.5] Introduction to Computer Science II
      - COMP 1805 [0.5] Discrete Structures I
   b. 1.5 credits in:

7. 4.0 credits in Computer Science Requirements
   a. 1.5 credits in:
      - COMP 1005 [0.5] Introduction to Computer Science I
      - COMP 1006 [0.5] Introduction to Computer Science II
      - COMP 1805 [0.5] Discrete Structures I
   b. 1.5 credits in:

7. 4.0 credits in Computer Science Requirements
   a. 1.5 credits in:
      - COMP 1005 [0.5] Introduction to Computer Science I
      - COMP 1006 [0.5] Introduction to Computer Science II
      - COMP 1805 [0.5] Discrete Structures I
   b. 1.5 credits in:
Linguistics (Bachelor of Science)

B.Sc. Honours in Linguistics

with a Concentration in Linguistic Theory
(Psychology) (20.0 credits)

A. Credits included in the Major CGPA (9.0 credits)
1.  1.0 credit in:
   a. 1.0 credit in:
      LING 1001 [0.5] Introduction to Linguistics I
      LING 2005 [0.5] Linguistic Analysis
      LING 2007 [0.5] Phonetics
   b. 1.0 credit from:
      LING 3004 [0.5] Syntax I
      LING 3007 [0.5] Phonology I
   c. 1.0 credit in LING at the 4000 level
   d. 1.5 credits in LING, excluding LING 1100
   e. 3.5 credits from the Concentration:
      a. 1.0 credit in:
         LING 3005 [0.5] Morphology I
         LING 3505 [0.5] Semantics
      b. 1.0 credit from:
         LING 4004 [0.5] Syntax II
         LING 4005 [0.5] Morphology II
         LING 4007 [0.5] Phonology II

B. Credits Not Included in the Major CGPA (11.0 credits)
7.  3.5 credits in Psychology:
   a. 2.0 credits in:
      PSYC 1001 [0.5] Introduction to Psychology I
      PSYC 1002 [0.5] Introduction to Psychology II
      PSYC 2001 [0.5] Introduction to Research Methods in Psychology
      PSYC 2002 [0.5] Introduction to Statistics in Psychology
   b. 1.5 credits from:
      PSYC 2307 [0.5] Human Neuropsychology I
      PSYC 2700 [0.5] Introduction to Cognitive Psychology
      PSYC 3307 [0.5] Human Neuropsychology II
      PSYC 3506 [0.5] Cognitive Development
      PSYC 3702 [0.5] Perception

8.  1.5 credits in:
   BIOL 1103 [0.5] Foundations of Biology I
   BIOL 1104 [0.5] Foundations of Biology II
   BIOL 3306 [0.5] Human Anatomy and Physiology

B.Sc. Honours in Linguistics

with a Concentration in Psycholinguistics and Communication Disorders
(Computer Science) (20.0 credits)

A. Credits Included in the Major CGPA (9.0 credits)
1.  1.0 credit in:
   a. 1.0 credit in:
      ALDS 1001 [0.5] Language Matters: Introduction to ALDS
      LING 1001 [0.5] Introduction to Linguistics I
      LING 2005 [0.5] Linguistic Analysis
      LING 2007 [0.5] Phonetics
   b. 1.0 credit from:
      LING 3004 [0.5] Syntax I
      LING 3007 [0.5] Phonology I
   c. 1.5 credits in LING, excluding LING 1100
   d. 3.5 credits from the Concentration:
      a. 0.5 credit in:
         LING 1002 [0.5] Introduction to Linguistics II
      b. 1.0 credit in:
         LING 4001 [0.5] Formal Semantics
         LING 4505 [0.5] Formal Semantics
         LING 4510 [0.5] Lexical Semantics
   e. 1.5 credits in LING (excluding LING 1100)

B. Credits Not Included in the Major CGPA (11.0 credits)
7.  3.5 credits in Psychology:
   a. 2.0 credits in:
      PSYC 1001 [0.5] Introduction to Psychology I
      PSYC 1002 [0.5] Introduction to Psychology II
      PSYC 2001 [0.5] Introduction to Research Methods in Psychology
      PSYC 2002 [0.5] Introduction to Statistics in Psychology
   b. 1.5 credits from:
      PSYC 2307 [0.5] Human Neuropsychology I
      PSYC 2700 [0.5] Introduction to Cognitive Psychology
      PSYC 3307 [0.5] Human Neuropsychology II
      PSYC 3506 [0.5] Cognitive Development
      PSYC 3702 [0.5] Perception

8.  1.5 credits in:
   BIOL 1103 [0.5] Foundations of Biology I
   BIOL 1104 [0.5] Foundations of Biology II
   BIOL 3306 [0.5] Human Anatomy and Physiology

9.  1.0 credit from:
   CHEM 1001 [0.5] General Chemistry I
   CHEM 1002 [0.5] General Chemistry II
   CHEM 1005 [0.5] Elementary Chemistry I
   CHEM 1006 [0.5] Elementary Chemistry II

10.  1.0 credit in:
     MATH 1007 [0.5] Linear Algebra I
     MATH 1007 [0.5] Linear Algebra I

11.  4.0 credits in free electives

C. Additional Requirements

12. School Language Proficiency Requirement must be satisfied

Total Credits 20.0

B.Sc. Honours in Linguistics

with a Concentration in Psycholinguistics and Communication Disorders
(Computer Science) (20.0 credits)

A. Credits Included in the Major CGPA (9.0 credits)
1.  1.0 credit in:
   a. 1.0 credit in:
      ALDS 1001 [0.5] Language Matters: Introduction to ALDS
      LING 1001 [0.5] Introduction to Linguistics I
      LING 2005 [0.5] Linguistic Analysis
      LING 2007 [0.5] Phonetics
   b. 1.0 credit from:
      LING 3004 [0.5] Syntax I
      LING 3007 [0.5] Phonology I
   c. 1.5 credits in LING, excluding LING 1100
   d. 3.5 credits from the Concentration:
      a. 0.5 credit in:
         LING 1002 [0.5] Introduction to Linguistics II
      b. 1.0 credit in:
         LING 4001 [0.5] Formal Semantics
         LING 4505 [0.5] Formal Semantics
         LING 4510 [0.5] Lexical Semantics
   e. 1.5 credits in LING (excluding LING 1100)

B. Credits Not Included in the Major CGPA (11.0 credits)
7.  3.5 credits in Psychology:
   a. 2.0 credits in:
      PSYC 1001 [0.5] Introduction to Psychology I
      PSYC 1002 [0.5] Introduction to Psychology II
      PSYC 2001 [0.5] Introduction to Research Methods in Psychology
      PSYC 2002 [0.5] Introduction to Statistics in Psychology
   b. 1.5 credits from:
      PSYC 2307 [0.5] Human Neuropsychology I
      PSYC 2700 [0.5] Introduction to Cognitive Psychology
      PSYC 3307 [0.5] Human Neuropsychology II
      PSYC 3506 [0.5] Cognitive Development
      PSYC 3702 [0.5] Perception

8.  1.5 credits in:
   BIOL 1103 [0.5] Foundations of Biology I
   BIOL 1104 [0.5] Foundations of Biology II
   BIOL 3306 [0.5] Human Anatomy and Physiology

9.  1.0 credit from:
   CHEM 1001 [0.5] General Chemistry I
   CHEM 1002 [0.5] General Chemistry II
   CHEM 1005 [0.5] Elementary Chemistry I
   CHEM 1006 [0.5] Elementary Chemistry II

10.  1.0 credit in:
     MATH 1007 [0.5] Linear Algebra I
     MATH 1107 [0.5] Linear Algebra I

11.  4.0 credits in free electives

C. Additional Requirements

12. School Language Proficiency Requirement must be satisfied

Total Credits 20.0
### B. Credits Not Included in the Major CGPA (11.0 credits)

<table>
<thead>
<tr>
<th>7. 4.0 credits in Computer Science Requirements</th>
<th>4.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. 1.5 credits in:</td>
<td></td>
</tr>
<tr>
<td>COMP 1005 [0.5] Introduction to Computer Science I</td>
<td></td>
</tr>
<tr>
<td>COMP 1006 [0.5] Introduction to Computer Science II</td>
<td></td>
</tr>
<tr>
<td>COMP 1805 [0.5] Discrete Structures I</td>
<td></td>
</tr>
<tr>
<td>b. 1.5 credits in:</td>
<td></td>
</tr>
<tr>
<td>COMP 2401 [0.5] Introduction to Systems Programming</td>
<td></td>
</tr>
<tr>
<td>COMP 2402 [0.5] Abstract Data Types and Algorithms</td>
<td></td>
</tr>
<tr>
<td>COMP 2404 [0.5] Introduction to Software Engineering</td>
<td></td>
</tr>
<tr>
<td>c. 1.0 credit from:</td>
<td></td>
</tr>
<tr>
<td>COMP 2406 [0.5] Fundamentals of Web Applications</td>
<td></td>
</tr>
<tr>
<td>COMP 2804 [0.5] Discrete Structures II</td>
<td></td>
</tr>
<tr>
<td>COMP 3000 [0.5] Operating Systems</td>
<td></td>
</tr>
<tr>
<td>COMP 3002 [0.5] Compiler Construction</td>
<td></td>
</tr>
<tr>
<td>COMP 3004 [0.5] Object-Oriented Software Engineering</td>
<td></td>
</tr>
<tr>
<td>COMP 3005 [0.5] Database Management Systems</td>
<td></td>
</tr>
<tr>
<td>COMP 3007 [0.5] Programming Paradigms</td>
<td></td>
</tr>
<tr>
<td>COMP 3008 [0.5] Human-Computer Interaction</td>
<td></td>
</tr>
<tr>
<td>8. 1.0 credit in:</td>
<td>1.0</td>
</tr>
<tr>
<td>MATH 1007 [0.5] Elementary Calculus I</td>
<td></td>
</tr>
<tr>
<td>MATH 1107 [0.5] Linear Algebra I</td>
<td></td>
</tr>
<tr>
<td>9. 6.0 credits in free electives</td>
<td>6.0</td>
</tr>
<tr>
<td>C. Additional Requirements</td>
<td></td>
</tr>
</tbody>
</table>

### B.Sc. Honours in Linguistics

with a Concentration in Psycholinguistics and Communication Disorders (Neuroscience) (20.0 credits)

<table>
<thead>
<tr>
<th>A. Credits Included in the Major CGPA (9.0 credits)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. 1.0 credit in:</td>
<td>1.0</td>
</tr>
<tr>
<td>ALDS 1001 [0.5] Language Matters: Introduction to ALDS</td>
<td></td>
</tr>
<tr>
<td>LING 1001 [0.5] Introduction to Linguistics I</td>
<td></td>
</tr>
<tr>
<td>2. 1.0 credit in:</td>
<td>1.0</td>
</tr>
<tr>
<td>LING 2005 [0.5] Linguistic Analysis</td>
<td></td>
</tr>
<tr>
<td>LING 2604 [0.5] Communication Disorders I</td>
<td></td>
</tr>
<tr>
<td>LING 3601 [0.5] Language Processing and the Brain</td>
<td></td>
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<tr>
<td>LING 3603 [0.5] Child Language</td>
<td></td>
</tr>
<tr>
<td>LING 3604 [0.5] Communication Disorders II</td>
<td></td>
</tr>
<tr>
<td>LING 4601 [0.5] Cognitive Neuroscience of Language</td>
<td></td>
</tr>
<tr>
<td>LING 4603 [0.5] First Language Acquisition</td>
<td></td>
</tr>
<tr>
<td>LING 4605 [0.5] Psycholinguistic Research Methods</td>
<td></td>
</tr>
<tr>
<td>LING 4606 [0.5] Statistics for Language Research</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>B. Credits Not Included in the Major CGPA (11.0 credits)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>10. Bachelor of Science Experimental Science Requirement must be satisfied</td>
<td></td>
</tr>
<tr>
<td>11. Bachelor of Science Experimental Science Requirement must be satisfied</td>
<td></td>
</tr>
</tbody>
</table>

### Total Credits

20.0

2021-2022 Carleton University Undergraduate Calendar
### B.Sc. Honours in Linguistics with a Concentration in Psycholinguistics and Communication Disorders (Psychology) (20.0 credits)

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

<table>
<thead>
<tr>
<th>Credits</th>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>ALDS 1001 [0.5]</td>
<td>Language Matters: Introduction to ALDS</td>
</tr>
<tr>
<td>1.0</td>
<td>LING 1001 [0.5]</td>
<td>Introduction to Linguistics I</td>
</tr>
<tr>
<td>1.0</td>
<td>LING 2005 [0.5]</td>
<td>Linguistic Analysis</td>
</tr>
<tr>
<td>1.0</td>
<td>LING 2007 [0.5]</td>
<td>Phonetics</td>
</tr>
<tr>
<td>1.0</td>
<td>LING 3004 [0.5]</td>
<td>Syntax I</td>
</tr>
<tr>
<td>1.0</td>
<td>LING 3007 [0.5]</td>
<td>Phonology I</td>
</tr>
<tr>
<td>1.0</td>
<td>LING at the 4000 level</td>
<td></td>
</tr>
<tr>
<td>1.5</td>
<td>LING, excluding LING 1100</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Credits</th>
<th>Course Code</th>
<th>Course Title</th>
</tr>
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<tbody>
<tr>
<td>3.5</td>
<td>PSYC 1001 [0.5]</td>
<td>Introduction to Psychology I</td>
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<tr>
<td>3.5</td>
<td>PSYC 1002 [0.5]</td>
<td>Introduction to Psychology II</td>
</tr>
<tr>
<td>2.0</td>
<td>PSYC 2001 [0.5]</td>
<td>Introduction to Research Methods in Psychology</td>
</tr>
<tr>
<td>2.0</td>
<td>PSYC 2002 [0.5]</td>
<td>Introduction to Statistics in Psychology</td>
</tr>
<tr>
<td>1.5</td>
<td>PSYC 2307 [0.5]</td>
<td>Human Neuropsychology I</td>
</tr>
<tr>
<td>1.5</td>
<td>PSYC 2700 [0.5]</td>
<td>Introduction to Cognitive Psychology</td>
</tr>
<tr>
<td>0.5</td>
<td>PSYC 3307 [0.5]</td>
<td>Human Neuropsychology II</td>
</tr>
<tr>
<td>0.5</td>
<td>PSYC 3506 [0.5]</td>
<td>Cognitive Development</td>
</tr>
<tr>
<td>0.5</td>
<td>PSYC 3702 [0.5]</td>
<td>Perception</td>
</tr>
<tr>
<td>1.5</td>
<td>BIOL 1103 [0.5]</td>
<td>Foundations of Biology I</td>
</tr>
<tr>
<td>1.5</td>
<td>BIOL 1104 [0.5]</td>
<td>Foundations of Biology II</td>
</tr>
<tr>
<td>1.0</td>
<td>CHEM 1001 [0.5]</td>
<td>General Chemistry I</td>
</tr>
<tr>
<td>1.0</td>
<td>CHEM 1005 [0.5]</td>
<td>Elementary Chemistry I</td>
</tr>
</tbody>
</table>

### School Language Proficiency Requirement

Students in B.A. Honours, Combined Honours, or 15 credit programs of the School of Linguistics and Language Studies are required, at graduation, to have a working knowledge of a language other than English. Proficiency is determined by successful completion of a 1.0 credit university course in the language or by an oral or written test given by the School.

### 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 a Bachelor of Science program 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 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.

2. 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.

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 a B.Sc. degree program 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>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1005</td>
<td>Elementary Chemistry I</td>
</tr>
<tr>
<td>CHEM 1006</td>
<td>Elementary Chemistry II</td>
</tr>
<tr>
<td>CHEM 2103</td>
<td>Physical Chemistry I</td>
</tr>
<tr>
<td>CHEM 2203</td>
<td>Organic Chemistry I</td>
</tr>
<tr>
<td>CHEM 2204</td>
<td>Organic Chemistry II</td>
</tr>
<tr>
<td>CHEM 2302</td>
<td>Analytical Chemistry I</td>
</tr>
<tr>
<td>CHEM 2303</td>
<td>Analytical Chemistry II</td>
</tr>
<tr>
<td>CHEM 2800</td>
<td>Foundations for Environmental Chemistry</td>
</tr>
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</table>

**Earth Sciences**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERTH 1006</td>
<td>Exploring Planet Earth</td>
</tr>
<tr>
<td>ERTH 1009</td>
<td>The Earth System Through Time</td>
</tr>
<tr>
<td>ERTH 2102</td>
<td>Mineralogy to Petrology</td>
</tr>
<tr>
<td>ERTH 2404</td>
<td>Engineering Geoscience</td>
</tr>
<tr>
<td>ERTH 2802</td>
<td>Field Geology I</td>
</tr>
<tr>
<td>ERTH 3111</td>
<td>Vertebrate Evolution: Mammals, Reptiles, and Birds</td>
</tr>
<tr>
<td>ERTH 3112</td>
<td>Vertebrate Evolution: Fish and Amphibians</td>
</tr>
<tr>
<td>ERTH 3204</td>
<td>Mineral Deposits</td>
</tr>
<tr>
<td>ERTH 3205</td>
<td>Physical Hydrogeology</td>
</tr>
<tr>
<td>ERTH 3806</td>
<td>Structural Geology</td>
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**Food Sciences**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>FOOD 3001</td>
<td>Food Chemistry</td>
</tr>
<tr>
<td>FOOD 3002</td>
<td>Food Analysis</td>
</tr>
<tr>
<td>FOOD 3005</td>
<td>Food Microbiology</td>
</tr>
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</table>

**Geography**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEG 1010</td>
<td>Global Environmental Systems</td>
</tr>
<tr>
<td>GEG 3108</td>
<td>Soil Properties</td>
</tr>
</tbody>
</table>

**Neuroscience**

<table>
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<tr>
<th>Course Code</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>NEUR 3206</td>
<td>Sensory and Motor Neuroscience</td>
</tr>
<tr>
<td>NEUR 3207</td>
<td>Systems Neuroscience</td>
</tr>
<tr>
<td>NEUR 4600</td>
<td>Advanced Lab in Neuroanatomy</td>
</tr>
</tbody>
</table>

**Physics**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
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</thead>
<tbody>
<tr>
<td>PHYS 1001</td>
<td>Foundations of Physics I</td>
</tr>
<tr>
<td>PHYS 1002</td>
<td>Foundations of Physics II</td>
</tr>
<tr>
<td>PHYS 1003</td>
<td>Introductory Mechanics and Thermodynamics</td>
</tr>
<tr>
<td>PHYS 1004</td>
<td>Introductory Electromagnetism and Wave Motion</td>
</tr>
<tr>
<td>PHYS 1007</td>
<td>Elementary University Physics I</td>
</tr>
<tr>
<td>PHYS 1008</td>
<td>Elementary University Physics II</td>
</tr>
<tr>
<td>PHYS 2202</td>
<td>Wave Motion and Optics</td>
</tr>
<tr>
<td>PHYS 2604</td>
<td>Modern Physics I</td>
</tr>
<tr>
<td>PHYS 3007</td>
<td>Third Year Physics Laboratory: Selected Experiments and Seminars</td>
</tr>
<tr>
<td>PHYS 3606</td>
<td>Modern Physics II</td>
</tr>
<tr>
<td>PHYS 3608</td>
<td>Modern Applied Physics</td>
</tr>
</tbody>
</table>

**Course Categories for B.Sc. Programs**

**Science Geography Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEG 1010</td>
<td>Global Environmental Systems</td>
</tr>
<tr>
<td>GEG 2006</td>
<td>Introduction to Quantitative Research</td>
</tr>
<tr>
<td>GEG 2013</td>
<td>Weather and Water</td>
</tr>
<tr>
<td>GEG 2014</td>
<td>The Earth's Surface</td>
</tr>
<tr>
<td>GEG 3003</td>
<td>Quantitative Geography</td>
</tr>
</tbody>
</table>
GEOG 3010 [0.5] Field Methods in Physical Geography
GEOG 3102 [0.5] Geomorphology
GEOG 3103 [0.5] Watershed Hydrology
GEOG 3104 [0.5] Principles of Biogeography
GEOG 3105 [0.5] Climate and Atmospheric Change
GEOG 3106 [0.5] Aquatic Science and Management
GEOG 3108 [0.5] Soil Properties
GEOG 4000 [0.5] Field Studies
GEOG 4005 [0.5] Directed Studies in Geography
GEOG 4013 [0.5] Cold Region Hydrology
GEOG 4017 [0.5] Global Biogeochemical Cycles
GEOG 4101 [0.5] Two Million Years of Environmental Change
GEOG 4103 [0.5] Water Resources Engineering
GEOG 4104 [0.5] Microclimatology
GEOG 4108 [0.5] Permafrost

**Science Psychology Courses**
- PSYC 2001 [0.5] Introduction to Research Methods in Psychology
- PSYC 2002 [0.5] Introduction to Statistics in Psychology
- PSYC 2700 [0.5] Introduction to Cognitive Psychology
- PSYC 3000 [1.0] Design and Analysis in Psychological Research
- PSYC 3506 [0.5] Cognitive Development
- PSYC 3700 [1.0] Cognition (Honours Seminar)
- PSYC 3702 [0.5] Perception
- PSYC 2307 [0.5] Human Neuropsychology I
- PSYC 3307 [0.5] Human Neuropsychology II

**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:

- 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
- STAT (Statistics)

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

- 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
- STAT (Statistics)

**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**

- BIOL 4810 [0.5] Education Research in Biology
B.Sc. 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 B.Sc. or B.Sc. Major 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 when these are recognized as the equivalent of subjects offered at Carleton University.

B.Sc. Major Program

B.Sc. (Honours)

Admission Requirements

B. Sc. 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 when 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.

Linguistics (LING) Courses

**LING 1001 [0.5 credit]**
Introduction to Linguistics I
Nature of language and linguistic knowledge. Formal description and analysis of language: phonetics, phonology, morphology, syntax and semantics. Lecture and tutorial three hours a week.

**LING 1002 [0.5 credit]**
Introduction to Linguistics II
Survey of topics in linguistics: language change, sociolinguistics, language acquisition and processing. May include language typology, language contact and writing systems. Prerequisite(s): LING 1001 (may be taken concurrently). Lectures three hours a week.

**LING 1100 [0.5 credit]**
The Mysteries of Language
This course explores some intriguing mysteries of language - whether it is unique to humans, how children master its complexities so easily, how the brain handles language, how languages are born and die. These questions lead us to interesting discoveries about the human mind. Lectures three hours a week.

**LING 2005 [0.5 credit]**
Linguistic Analysis
Phonological, morphological and syntactic analysis of linguistic data. Coursework consists primarily of practical exercises in data analysis. Includes: Experiential Learning Activity Prerequisite(s): LING 1001. Lecture and tutorial three hours a week.

**LING 2007 [0.5 credit]**
Phonetics
Description of speech sounds; transcription systems; articulation; acoustics of speech sounds; perception of speech sounds; cross-linguistic diversity and phonetic universals; the role of phonetics in grammar. Includes: Experiential Learning Activity Precludes additional credit for LING 2001 (no longer offered). Prerequisite(s): LING 1001. Lecture and tutorial three hours a week.

**LING 2504 [0.5 credit]**
Language and Communication
Some of the central topics in the study of language and communication as pursued by linguists and philosophers. Topics include: the nature of meaning; the connections between language, communication and cognition; language as a social activity. Also listed as PHIL 2504, COMS 2504. Prerequisite(s): second-year standing. Lectures three hours a week.

**LING 2604 [0.5 credit]**
Communication Disorders I
A survey course highlighting congenital, developmental and acquired disorders of speech, language, fluency, hearing and voice; prevalence, current research, assessment and intervention approaches for each disorder will be presented. Also listed as ALDS 2604. Prerequisite(s): second year standing or permission of the instructor. Lectures three hours a week.

**LING 2802 [0.5 credit]**
History of the English Language
A historical study of the English language, its structure, variety, and cultural contexts with an introduction to grammatical terminology and constructions. Also listed as ENGL 2105. Prerequisite(s): second-year standing or permission of the department. Lectures three hours a week.

**LING 3004 [0.5 credit]**
Syntax I
Introduction to syntactic theory. Representation and analysis of sentence structure, syntactic relations and syntactic dependencies. Testing of grammatical hypotheses. Includes: Experiential Learning Activity Prerequisite(s): LING 2005. Lecture and tutorial three hours a week.

**LING 3005 [0.5 credit]**
Morphology I
Introduction to word structure and morphological theory. Topics include inflectional and derivational morphology, morphological processes, and interaction of morphology with phonology and syntax. Includes: Experiential Learning Activity Prerequisite(s): LING 2005 and LING 2007. Lectures three hours a week.
LING 3007 [0.5 credit]  
Phonology I  
The sound-systems of languages, analysis of phonological structure; generative phonology; phonological rules and derivations; cross-linguistic diversity and universals; segmental phonology; stress; tone.  
Includes: Experiential Learning Activity  
Precludes additional credit for LING 3002 (no longer offered).  
Prerequisite(s): LING 2001 (no longer offered) or LING 2007.  
Lecture and tutorial three hours a week.

LING 3009 [0.5 credit]  
Special Topic in Linguistics  
Selected topics in general linguistics not ordinarily treated in the regular course program. Contents of the course vary from year to year.  
Lectures and discussion three hours per week.

LING 3504 [0.5 credit]  
Pragmatics  
The study of language in its conversational and cultural contexts. Topics include: conversational implicature; deixis; the semantics-pragmatics boundary; speaker's reference; speech acts. May include cross-cultural pragmatics.  
Also listed as PHIL 3504.  
Prerequisite(s): third-year standing, and one of LING 1001, PHIL 2001, PHIL 2504/COMM 2504/LING 2504 or PHIL 3506, or LING 3505 or permission of the Department of Philosophy or School of Linguistics and Language Studies.  
Lectures three hours a week.

LING 3505 [0.5 credit]  
Semantics  
Study of language meaning. Lexical meaning and meanings of larger linguistic expressions, including nominal units, verbal units, and sentences. Meaning relationships between utterances. Relationship between linguistic meaning (semantics) and contextual meaning (pragmatics). Basic formal treatments of semantics.  
Also listed as PHIL 3506.  
Prerequisite(s): third-year standing, and one of LING 1001, PHIL 2001, PHIL 2504/LING 2504/COMM 2504 or PHIL 3504/LING 3504, or permission of the Department of Philosophy or School of Linguistics and Language Studies.  
Lectures three hours a week.

LING 3601 [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 PSYC 3709.  
Prerequisite(s): LING 1001 or PSYC 2700 and second-year standing, or permission of the instructor.  
Lectures three hours a week.

LING 3701 [0.5 credit]  
Corpus Linguistics  
Computer-assisted analysis of electronic collections of naturally occurring language. Applications in such areas as language variation, grammar, lexicology, phraseology, translation, and learner language.  
Includes: Experiential Learning Activity  
Also listed as ALDS 3701.  
Prerequisite(s): third-year standing in Applied Linguistics and Discourse Studies, or in Linguistics, or enrolment in the CTESL program, or permission of the instructor.  
Lectures three hours a week.
LING 3702 [0.5 credit]
Sociolinguistics
The place of language within society; bilingual and multilingual communities; language, social mobility and social stratification; sociolinguistic factors in language change.
Also listed as ALDS 3202.
Precludes additional credit for ALDS 2701 (no longer offered).
Prerequisite(s): ALDS 1001 and third-year standing.
Lecture three hours a week.

LING 3801 [0.5 credit]
Structure of a Specific Language
Description and analysis of the structure of a specific language applying phonology, morphology, syntax, and semantics. Language to be studied will be announced in advance by the School.
Prerequisite(s): LING 2001 (no longer offered) or LING 2005 or LING 2007.
Lectures three hours a week.

LING 3810 [0.5 credit]
Historical Linguistics I
Language change; sound change; analogy; the comparative method; internal reconstruction; the philological method; historical linguistics and pre-history; language change and theories of grammar.
Precludes additional credit for LING 3101.
Prerequisite(s): LING 2007.
Lectures three hours a week.

LING 3811 [0.5 credit]
Language Typology and Universals
Cross-linguistic survey of syntactic and morphological patterns found in the languages of the world. Typological classification and identification of language universals.
Includes: Experiential Learning Activity
Precludes additional credit for LING 3001.
Prerequisite(s): LING 2005.
Lectures three hours a week.

LING 3900 [1.0 credit]
Independent Study
Research under the supervision of a member of the School. Normally available only to third- and fourth-year students in Linguistics.
Includes: Experiential Learning Activity
Prerequisite(s): permission of the instructor.

LING 3901 [0.5 credit]
Independent Study
Research under the supervision of a member of the School. Normally available only to third- and fourth-year students in Linguistics.
Includes: Experiential Learning Activity
Prerequisite(s): permission of the instructor.

LING 4004 [0.5 credit]
Syntax II
Advanced topics in syntax.
Includes: Experiential Learning Activity
Precludes additional credit for LING 4002 (no longer offered).
Prerequisite(s): LING 3004 and third-year standing.
Seminars three hours a week.

LING 4005 [0.5 credit]
Morphology II
Advanced topics in morphology.
Includes: Experiential Learning Activity
Prerequisite(s): LING 3005 and third-year standing.
Seminars three hours a week.

LING 4007 [0.5 credit]
Phonology II
Advanced topics in phonology.
Includes: Experiential Learning Activity
Precludes additional credit for LING 4001 (no longer offered).
Prerequisite(s): LING 3007, and third-year standing.
Seminars three hours a week.

LING 4009 [0.5 credit]
Special Topic in Linguistics
Examination of a topic or more specialized area in linguistics or language study. Topic to be announced.
Repeatable for credit when the topic changes.
Also offered at the graduate level, with different requirements, as LING 5009, for which additional credit is precluded.
Seminars three hours a week.

LING 4412 [0.5 credit]
Diversité du français
Études des variétés du français, dans ses dimensions spatiales. Le contenu précis de ce cours varie selon les années. Consulter le site web du Département de français pour obtenir les détails. The course is taught in French, but students will submit written assignments in English.
Also listed as FREN 4412.
Prerequisite(s): FREN 2401 and FREN 3050, or permission of the Department.
Also offered at the graduate level, with different requirements, as FREN 5412 and LING 5412, for which additional credit is precluded.
Seminars three hours a week.
LING 4413 [0.5 credit]
Diachronie du français
Étude du français, dans ses dimensions historiques. Le contenu précis de ce cours varie selon les années. Consulter le site web du Département de français pour obtenir les détails. The course is taught in French, but students will submit written assignments in English. Also listed as FREN 4413.
Prerequisite(s): FREN 2401 and FREN 3050, or permission of the Department.
Also offered at the graduate level, with different requirements, as FREN 5413 and LING 5413, for which additional credit is precluded.
Seminars three hours a week.

LING 4414 [0.5 credit]
Analyse du français
Étude du français, dans ses dimensions morphologiques, syntaxiques ou phonologiques. Le contenu précis de ce cours varie selon les années. Consulter le site web du Département de français pour obtenir les détails.
Course is taught in French, but students will submit written assignments in English. Also listed as FREN 4414.
Prerequisite(s): FREN 2401 and FREN 3050, or permission of the Department.
Also offered at the graduate level, with different requirements, as FREN 5414 and LING 5414, for which additional credit is precluded.
Seminars three hours a week.

LING 4415 [0.5 credit]
Variation du français
Étude des variations internes de la langue, dans des dimensions orales/écrites. Le contenu précis de ce cours varie selon les années. Consulter le site web du Département de français pour obtenir les détails.
Course is taught in French, but students submit assignments in English. Also listed as FREN 4415.
Prerequisite(s): FREN 2401 and FREN 3050, or permission of the Department.
Also offered at the graduate level, with different requirements, as FREN 5415 and LING 5415, for which additional credit is precluded.
Seminars three hours a week.

LING 4505 [0.5 credit]
Formal Semantics
Advanced topics in compositional semantics and its interfaces. Topics may include: logic, semantic types, lambda calculus, intentional contexts, possible world semantics, interfaces with syntax and pragmatics quantification, anaphora, presupposition, implicatures, scope and binding, and model theory.
Includes: Experiential Learning Activity
Also listed as PHIL 4505.
Prerequisite(s): LING 3505 or PHIL 3506, and third-year standing, or permission of the Department of Philosophy or School of Linguistics and Language Studies.
Seminars three hours a week.

LING 4510 [0.5 credit]
Lexical Semantics
Study of the meaning of words. Topics may include lexical decomposition, meaning variation, lexical relations, and lexical aspect.
Includes: Experiential Learning Activity
Also listed as PHIL 4055.
Precludes additional credit for LING 4055 (no longer offered).
Prerequisite(s): LING 3505 or PHIL 3506, and third-year standing.
Also offered at the graduate level, with different requirements, as LING 5510, for which additional credit is precluded.
Seminars three hours a week.

LING 4601 [0.5 credit]
Cognitive Neuroscience of Language
Further study of psychological and neurolinguistic mechanisms of adult language processing. May include topics from first language acquisition.
Includes: Experiential Learning Activity
Prerequisite(s): LING 3601 or permission of the instructor.
Also offered at the graduate level, with different requirements, as LING 5601, for which additional credit is precluded.
Seminars three hours a week.

LING 4603 [0.5 credit]
First Language Acquisition
Advanced topics in language acquisition and development and the relative contributions of the environment, cognitive development, and inborn knowledge.
Includes: Experiential Learning Activity
Prerequisite(s): LING 1001 and LING 3603.
Also offered at the graduate level, with different requirements, as LING 5603, for which additional credit is precluded.
Seminars three hours a week.

LING 4604 [0.5 credit]
Practicum in Speech Language Pathology
Through seven-hour-a-week field placements, students pursue personal learning objectives concerning the clinical application of the psycholinguistics of communication disorders and cognitive development. A term paper integrates experiential knowledge gained in the placement with theoretical and empirical knowledge gained from the student's program of study.
Includes: Experiential Learning Activity
Prerequisite(s): LING 3604, fourth-year Honours standing in B.A. or B.Sc. in Linguistics with a Concentration in Psycholinguistics and Communication Disorders with a CGPA of 10.0 in the major, and permission from the School of Linguistics and Language Studies.
Field placement one day a week.
LING 4605 [0.5 credit]
Psycholinguistic Research Methods
Experimental methodologies used in current psycholinguistic studies. Topics include experimental design and techniques, descriptive statistics, and interpreting and reporting research findings.
Includes: Experiential Learning Activity
Precludes additional credit for LING 4009 Section "A" (2015-16 and 2016-17) and LING 4009 Section "B" (2013-14) and LING 4009 Section "C" (2017-18).
Prerequisite(s): third- or fourth-year Honours standing in Linguistics or Cognitive Science, or permission of the instructor.
Also offered at the graduate level, with different requirements, as LING 5605, for which additional credit is precluded.
Seminar three hours a week.

LING 4606 [0.5 credit]
Statistics for Language Research
Application of statistical procedures to analysis of language data and to problems of measurement in experimental linguistics, applied linguistics, psycholinguistics, and related fields.
Includes: Experiential Learning Activity
Also listed as ALDS 4606.
Precludes additional credit for ALDS 4906/LING 4009 Section "B" if taken Winter 2015 or Winter 2016.
Prerequisite(s): Third-year standing in Linguistics or Applied Linguistics and Discourse Studies or Cognitive Science, or permission of the instructor.
Also offered at the graduate level, with different requirements, as LING 5606 and ALDS 5604, for which additional credit is precluded.
Seminar three hours a week.

LING 4801 [0.5 credit]
Linguistic Field Methods
With a language consultant, students discover the phonological, morphological, and syntactic structures of the target language using linguistic elicitation. Language will vary from year to year, but will normally be a non-European language. Language documentation, data management, ethical issues surrounding research in Indigenous communities.
Includes: Experiential Learning Activity
Prerequisite(s): LING 2005 and LING 2007.
Also offered at the graduate level, with different requirements, as ALDS 5801, for which additional credit is precluded.
Lectures three hours a week.

LING 4802 [0.5 credit]
Historical Linguistics: English
A theory-intensive course that will study the development of English starting with Proto-Indo-European progressing through Common Germanic to the stages of English itself. Topics include phonological sound changes, phonemic inventories, and morphological and syntactic typology.
Precludes additional credit for LING 4101.
Prerequisite(s): LING 2005 and LING 2007, and one of LING 3005, LING 3810 or LING 3811.
Also offered at the graduate level, with different requirements, as LING 5802, ENGL 5101, for which additional credit is precluded.
Seminars three hours a week.

LING 4805 [0.5 credit]
Old English
Studies in Old English literature and its cultural and historical contexts. Instruction in grammar to facilitate reading knowledge of the Old English language.
Also listed as ENGL 4105.
Precludes additional credit for ENGL 3102 (no longer offered).
Prerequisite(s): Fourth-year standing or permission of the department.
Seminar or lecture three hours a week.

LING 4900 [1.0 credit]
Independent Study in Linguistics
Permits fourth-year Honours students to pursue their interests in a selected area of linguistics.
Prerequisite(s): permission of the instructor.

LING 4901 [0.5 credit]
Independent Study in Linguistics
Permits fourth-year Honours students to pursue their interests in a selected area of linguistics.
Prerequisite(s): permission of the instructor.

LING 4905 [1.0 credit]
Honours Project in Experimental Linguistics
Students choose existing study in linguistic literature, replicate the study, present findings, compare to original study. Practical experience gathering and preparing materials, running experiments, analyzing data, interpreting findings; real, important contributions to the field of linguistics via replication studies (as mandated by the scientific method).
Includes: Experiential Learning Activity
Precludes additional credit for LING 4910.
Prerequisite(s): fourth-year Honours standing in Linguistics, with a Major CGPA of 9.0, and permission of the instructor.
Unscheduled.
LING 4910 [1.0 credit]
Honours Thesis in Linguistics
Open to all candidates for the B.A. (Honours) in Linguistics. A thesis project selected in consultation with the School and carried out under the direction of a faculty supervisor.
Includes: Experiential Learning Activity
Precludes additional credit for LING 4905.
Prerequisite(s): fourth-year Honours standing in Linguistics with a CGPA of 10.0 in the major; one of LING 3004, LING 3007, LING 3505, or LING 3601; and permission of the instructor.