ESP to Degree

ESP Business Stream
Students in the ESP Business Stream enroll in a first-year Math course (MATH 1009), first-year Economics (ECON 1001/ECON 1002), Introduction to Business (BUSI 1800) and a First-Year Seminar (FYSM 1900) course.

To earn admission to a Bachelor of Commerce or Bachelor of International Business, students must:
- Complete the ESP Business stream with an overall minimum average of B- (7.0), and
- Earn a minimum of C+ in 3 of the following 4 courses: ECON 1001, ECON 1002, MATH 1009 and BUSI 1800, with no grade lower than C-.

ESP Computer Science Stream
Students in the ESP Computer Science Stream enroll in first-year Math courses (MATH 1007/1104), first-year Computer Science courses (COMP1005/1006) and a First-Year Seminar (FYSM 1900) course.

To earn admission to a Computer Science degree, students must:
- Complete the ESP Computer Science stream with an overall minimum average of B- (7.0), and
- Earn a minimum grade of C- in each of: MATH 1007, MATH 1104 and COMP 1006.

ESP Engineering Stream
Students in the ESP Engineering stream enroll in first-year Math (MATH 1004/1104) and first-year Chemistry (CHEM 1001/1002) as well as a First-Year Seminar course. Students must successfully complete the ESP Engineering Stream with:
- An overall minimum average of B- (7.0)* or higher, and
- A minimum core average of B- (7.0) in core subjects: CHEM 1001/1002, MATH 1004/1104 and Grade 12 Advanced Physics (prerequisite subject: minimum of 60%).

*Minimum overall and core GPA requirements (by major) are normally:
- Aerospace Engineering (A-)
- Architectural Conservation and Sustainability Engineering (B-)
- Biomedical and Electrical Engineering (B-)
- Biomedical and Mechanical Engineering (A-)
- Civil Engineering (B-)
- Communications Engineering (B-)
- Computer Systems Engineering (B-)
- Electrical Engineering (B-)
- Engineering Physics (A-)
- Environmental Engineering (B-)
- Mechanical Engineering (A-)
- Software Engineering (B+)
- Sustainable & Renewable Energy Engineering (A-)

Please note that students with previous university experience (including returning ESP students) will have different admissions requirements than what is indicated here. These students should consult with an ESP Academic Advisor for details.
**ESP Science Stream**

Students in the ESP Science Stream enroll in a First-Year Seminar (FYSM 1900) course, first-year Math courses (MATH 1007/1107), first-year Chemistry (CHEM 1001) in the fall and choose between CHEM 1002 or NEUR 1203 in the winter.

To earn admission to a **Bachelor of Science** (15 credit) programs, students must successfully complete the ESP Science Stream with:

- An overall minimum average of C+ (6.0), *and*
- A core average of C+ (6.0) across MATH 1007, MATH 1107 and one of CHEM 1001 or CHEM 1002, with no grade lower than a D+.

To earn admission to a **Bachelor of Science Honours** (20 credit) programs, students must successfully complete the ESP Science Stream with:

- An overall average of B- (7.0) and to present an additional high school grade 12 advanced class (with a minimum grade of 60%) in one of 4U Biology, 4U Earth and Space Science or 4U Physics, *and*
- A core average of B- (7.0) calculated using: MATH 1007, MATH 1107, one of CHEM 1001 or CHEM 1002, and the additional high school prerequisite. A minimum grade of a D+ is required in all prerequisite and core courses.

Bachelor of Science majors include:

- Biochemistry
- Biinformatics
- Biology (BSc)
- Biotechnology
- Chemistry
- Computational Biochemistry
- Earth Sciences
- Environmental Science
- Food Science and Nutrition
- Geography (BSc)
- Geomatics (BSc)
- Interdisciplinary Sci. & Practice
- Linguistics (BSc)
- Nanoscience
- Neuroscience
- Physics
- Psychology (BSc)

To earn admission to a **Bachelor of Health Sciences** program, students must successfully complete the ESP Science Stream with:

- An overall average of B+ (9.0) and to present an additional high school grade 12 advanced class (with a minimum grade of 60%) in one of 4U Biology, 4U Earth and Space Science or 4U Physics, *and*
- A core average of B (8.0) calculated using: MATH 1007, MATH 1107, one of CHEM 1001 or CHEM 1002, and the additional high school prerequisite. A minimum grade of a D+ is required in all prerequisite and core courses.

**Other Programs**

**Bachelor of Mathematics**

Students interested in a B.Math should enroll in a First-Year Seminar (FYSM 1900) course, first-year Math courses (MATH 1007/1107), and additional credit to be chosen in consultation with an ESP advisor.

- To earn admission to a **Bachelor of Mathematics Honours** (20 credit) programs, students must successfully complete ESP with an overall GPA of 7.0 or B- (70-72%) and earn a minimum grade of C- in each of MATH 1007 and MATH 1107.
- To earn admission to a **Bachelor of Mathematics** (15 credit) programs, students must successfully complete ESP with an overall minimum GPA of 6.0 or C+ (67-69%) for admission to a Math degree (15 credit program) and earn a minimum grade of C- in each of MATH 1007 and MATH 1107.

**Other Degrees**

Please consult with Admissions Services 613-520-3609 or admissions@carleton.ca or reach out to an ESP Advisor esp.advising@carleton.ca for advice on qualifying for other degrees through ESP.

**How does Carleton calculate your ESP average?**

Carleton uses the following 12-point grade system to calculate cumulative grade point averages (CGPA).

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<tr>
<th>Letter grade</th>
<th>A+</th>
<th>A-</th>
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<th>B+</th>
<th>B</th>
<th>B-</th>
<th>C+</th>
<th>C</th>
<th>C-</th>
<th>D+</th>
<th>D</th>
<th>D-</th>
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