## BACHELOR OF SCIENCE UNDECLARED

## Bachelor of Science

Faculty of Arts and Science
MacEwan.ca/Science (http://MacEwan.ca/Science/)
The Bachelor of Science (BSc) is a foundational general degree that provides broad and widely applicable knowledge and abilities rather than a niche specialization. This broad base equips graduates with generalist knowledge and skills that give the flexibility and agility so highly valued in a dynamic world economy. It also offers students a solid foundation to specialize in future employment or further schooling.

The degree provides a breadth of study across various Arts and Science disciplines and sets the foundation for later years. The major and minor areas of study allow students to focus and gain in-depth expertise in complementary or entirely disparate disciplines; there is a wide array of possible combinations. Finally, options enable students to explore courses outside their disciplines or even within their program, enhancing their diversity of learning. The small classes, close interaction between instructors and students, opportunities for individual study, and faculty with a strong focus on teaching are signature strengths of this program.

## General Program Information

The BSc requires students to complete 120 credits of non-duplicative coursework. The BSc emphasizes breadth and depth and has been designed for exceptional flexibility and customization. Students can complete a major and a minor, a double major, or a major and two minors. Students can choose a secondary major in an Arts or Science discipline, but the primary major must be in a Science discipline.

All newly admitted students enter the BSc program as "Undeclared." Undeclared means a student has not yet chosen their major(s) and minor(s). Students may declare at any time after being accepted to the BSc , and typically, they declare after completing a minimum of 45 credits. The Arts and Science Academic Advising Office will send information about majors and minors via email and newsletters; please contact the Advising Office if you require further assistance with this decision.

## Science Disciplines

| Discipline | Major | Minor | Honours |
| :---: | :---: | :---: | :---: |
| Applied Statistics | - | - | 0 |
| Biological Sciences | $\bigcirc$ | 0 | 0 |
| Chemistry | 0 | $\bigcirc$ | - |
| Computer Science | 0 | 0 | - |
| Earth and Planetary Sciences | - | - | - |
| Environmental Sciences | - | 0 | - |
| Mathematics | 0 | 0 | 6 |
| Mathematical Sciences | © | - | - |
| Planetary Physics | - | - | - |


| Physical | - | - | - |
| :--- | :--- | :--- | :--- |
| Sciences |  |  |  |
| Physics | - |  | - |
| Psychology | - | 0 | - |
| Statistics | - |  | - |

## Arts Disciplines

| Discipline | Major | Minor |
| :---: | :---: | :---: |
| Anthropology | - | - |
| Classics |  | 0 |
| Creative Writing |  | - |
| Economics | - | 0 |
| English | - | - |
| Film Minor for Arts and Science |  | - |
| French |  | - |
| Gender Studies |  | $\bigcirc$ |
| History | 0 | - |
| Philosophy | - | - |
| Political Science | 0 | - |
| Sociology | 0 | - |
| Spanish |  | - |

## Out of Faculty Minors

| Discipline |
| :--- |
| Accounting Minor for Arts and |
| Science |
| Arts and Cultural Management |
| Business Law |
| Business Studies |
| Digital Experience Design |
| Finance Minor for Arts and Science |
| Human Resources Minor for Arts |
| and Science |
| Marketing Minor for Arts and |
| Science |

## Laddering a Diploma into the Bachelor of Science

Students with an accredited diploma can ladder into the Bachelor of Science (BSc) and use some of their diploma coursework towards their degree requirements. If you have questions about the diploma laddering process, please visit www.macewan.ca/bscstudent or contact artsandscience@macewan.ca.

## Preparing for Professional Studies

Students intending to enter professional programs at other universities can take their pre-professional programs in the Faculty of Arts and Science at MacEwan University. The university offers the first and second years of several pre-professional programs, including chiropractic medicine, dental hygiene, dentistry, medical laboratory science, medicine, optometry, pharmacy, and veterinary medicine. All courses in these preprofessional programs are credit courses, and, as such, they may apply to the degrees offered by MacEwan University.

Students are advised to consult the admissions requirements for the universities and programs of their choice and to select their MacEwan University courses accordingly. Completing pre-professional courses at MacEwan University does not guarantee admission to the subsequent professional program. Each professional program requires a separate application, and entry is competitive, not automatic.

## Degree Requirements

## Breadth Requirements

All Bachelor of Science degrees require Breadth Requirements. Courses can satisfy both the breadth requirements and requirements for the major(s), minor(s), Honours, or options. BIOL, CHEM, EASC, or PHYS courses must include a laboratory component.

| Breadth Element | Description | Credits |
| :---: | :---: | :---: |
| Biological or Earth and Planetary Sciences | BIOL or EASC (not including BIOL 101, BIOL 102, or BIOL 103) | 6 |
| Chemistry or Physics | CHEM or PHYS | 6 |
| English | ENGL 102 and 3 credits in university English (not including ENGL 111, ENGL 108, or ENGL 211) | 6 |
| Humanities | CLAS, COMP, HIST, HUMN, PHIL or a language other than English | 6 |
| Mathematical Sciences | One of MATH 114, MATH 120, or MATH 125, and 3 credits in MATH, STAT, or CMPT (not including MATH 160, MATH 170, or CMPT 104) | 6 |
| Social Sciences | ANTH, ECON, GEND, LING, POLS, PSYC, or SOCI | 6 |


| Program Element | Description | Credits |
| :---: | :---: | :---: |
| Primary Major | The Science major will range from 42 to 60 credits with a minimum 36 credits taken at the senior-level. ${ }^{1}$ | 42-60 |
| Secondary Major or Minor(s) | Students have the option of completing a second Science or Arts major, or one or two minors. Minor courses must be completed at the senior-level. ${ }^{1}$ | 18-60 |
| Options | Students can complete up to 18 credits in out-of-faculty options, with no more than 3 credits in physical activity (PACT) courses | Up to 60 |

Total Degree Credits

1
Multi-disciplinary majors consist of 60-72 junior- and senior-level credits.
Students majoring in mathematical or physical sciences may pursue a minor but are not required to do so.

Bachelor of Science Honours

| Program Element | Description | Credits |
| :--- | :--- | ---: |
| Minimum Honours Honours requirements <br> Requirements <br> discipline. <br> Option Courses, Non- Students have the |  |  |
| Compulsory Honours | option of completing a <br> Courses, and/or a <br> Minor | minor from outside of <br> the Honours discipline. <br> Some disciplines may <br> require a minor. |
|  | Total Degree Credits <br> Including Breadth | 57 |

The minimum passing grade for a course at MacEwan University is a D unless otherwise noted next to the appropriate course in the program of study. In the Faculty of Arts and Science, students typically require a minimum grade of C - to use a course as a prerequisite. Please check course descriptions for more information.

## Cross-Faculty Course Recognitions

Cross-Faculty course recognition represents an agreement between programs within MacEwan University and consists of a number of approved courses that have the potential to be recognized within another degree. These courses are not considered transfers or equivalents as the original course will show within a student's transcript and their Academic Planning and Progress Report (APPR). How the courses listed below might be used within a student's degree are determined by the student's program of study. They are dependent on a number of factors including year of declaration, year of completion, and individual program requirements.

| Out-of-Faculty Course | Course Recognition | Course Used For <br> ACUP 117 |
| :--- | :--- | :--- |
| ARTOP 1XX | Options; fulfills <br> Humanities Breadth |  |
| ACUP 209 | SCIOP 2XX | Options |
| ACUP 220, ACUP 303, <br> and ACUP 304 (must <br> complete all three <br> courses) | COSL 200 (6 credits) | Options |
| ACUP 320 | SCIOP 3XX |  |
| AGAD 300 | COSL 300 | Options |
| AGAD 435 | ARTOP 1XX | Options |
| ARTE 104 | ARTOP 2XX | Options; fulfills <br> Humanities Breadth |
| ARTE 214 | ARTOP 2XX | Options; fulfills <br> Humanities Breadth |
| ARTE 224 | ARTOP 2XX | Options; fulfills <br> Humanities Breadth |
| ARTE 234 |  | Options; fulfills <br> Humanities Breadth |


| ARTE 304 | ARTOP 3XX | Options; fulfills Humanities Breadth | CYCW 211 | SOCI 2XX | Options or Sociology program requirements; fulfills Social Science Breadth |
| :---: | :---: | :---: | :---: | :---: | :---: |
| ARTE 314 | ARTOP 3XX | Options; fulfills Humanities Breadth |  |  |  |
| ARTE 324 | ARTOP 3XX | Options; fulfills Humanities Breadth | CYCW 302 | ARTOP 3XX | Options; fulfills Social Science Breadth |
| CORR 102 | SOCI 1XX | Options or Sociology program requirements; fulfills Social Science Breadth | CYCW 303 | ARTOP 3XX | Options; fulfills Social Science Breadth |
|  |  |  | CYCW 339 | ARTOP 3XX | Options; fulfills Social Science Breadth |
| CORR 104 | SOCI 1XX | Options or Sociology program requirements; fulfills Social Science Breadth | CYCW 340 | SOCI 2XX | Options or Sociology program requirements; fulfills Social Science Breadth |
| CORR 110 | SOCI 225 | Options or Sociology program requirements; fulfills Social Science Breadth | CYCW 350 | SOCI 2XX | Options or Sociology program requirements; fulfills Social Science Breadth |
| CORR 120 | SOCI 2XX | Options or Sociology program requirements; fulfills Social Science Breadth | CYCW 360 | SOCI 3XX | Options or Sociology program requirements; fulfills Social Science Breadth |
| CORR 202 | ARTOP 2XX | Options | CYCW 361 | SOCI 2XX | Options or Sociology program requirements; fulfills Social Science Breadth |
| CORR 208 | ARTOP 2XX | Options |  |  |  |
| CORR 214 | COSL 200 | Options |  |  |  |
| CORR 218 | SOCI 321 | Options or Sociology program requirements; fulfills Social Science Breadth |  |  |  |
|  |  |  | CYCW 466 | ARTOP 4XX | Options |
|  |  |  | DESN 270 | ARTOP 2XX | Options; fulfills Humanities Breadth |
| CORR 224 | COSL 200 | Options | DESN 271 | ARTOP 2XX | Options; fulfills Humanities Breadth |
| CYCW 100 | PSYC 2XX | Options or Psychology program requirements; fulfills Social Science Breadth |  |  |  |
|  |  |  | ECCS 110 | PSYC 1XX | Options or Psychology program requirements; fulfills Social Science Breadth |
| CYCW 108 and CYCW 112 | SOCI 1XX | Options or Sociology program requirements; fulfills Social Science Breadth |  |  |  |
|  |  |  | ECCS 115 | ARTOP 1XX | Options |
|  |  |  | ECCS 160 | PSYC 2XX | Options or Psychology program requirements; fulfills Social Science Breadth |
| CYCW 115 | SOCI 2XX | Options or Sociology program requirements; |  |  |  |
|  |  | fulfills Social Science Breadth | ECCS 180 | SOCI 2XX | Options or Sociology program requirements; fulfills Social Science breadth |
| CYCW 114 | ARTOP 1XX | Options |  |  |  |
| CYCW 201 | PSYC 2XX | Options or Psychology program requirements; fulfills Social Science Breadth |  |  |  |
|  |  |  | ECCS 220 | COSL 200 | Options |
|  |  |  | ECCS 255 | ARTOP 2XX | Options |
|  |  |  | ECCS 260 | SOCI 2XX | Options or Psychology program requirements; fulfills Social Science Breadth |
| CYCW 204 | COSL 200 | Options |  |  |  |
| CYCW 205 | SOCI 2XX | Options or Sociology program requirements; fulfills Social Science Breadth |  |  |  |
|  |  |  | ECCS 270 | COSL 200 | Options |
|  |  |  | ECCS 310 | SOCI 3XX | Options or Sociology program requirements; fulfills Social Science Breadth |
| CYCW 206 | ARTOP 2XX | Options |  |  |  |
| CYCW 208 | SOCI 2XX | Options or Sociology program requirements; fulfills Social Science Breadth |  |  |  |


| ECCS 355 | SOCI 3XX | Options or Sociology program requirements; fulfills Social Science Breadth |
| :---: | :---: | :---: |
| ECCS 360 | SOCI 3XX | Options or Sociology program requirements; fulfills Social Science Breadth |
| ECCS 425 | SOCI 4XX | Options or Sociology program requirements; fulfills Social Science Breadth |
| ECDV 160 | ARTOP 1XX | Options |
| ECDV 220 | COSL 200 | Options |
| ECDV 255 | ARTOP 2XX | Options |
| ECDV 260 | SOCI 2XX | Options or Sociology program requirements; fulfills Social Science Breadth |
| ECDV 270 | COSL 270 | Options |
| ECDV 280 | PSYC 2XX | Options or Psychology program requirements; fulfills Social Science Breadth |
| FNCE 301 | ECON 3XX | Options or Economics program requirements; fulfills Social Science Breath |
| HAPR 101 | SCIOP 1XX | Options |
| HAPR 104 | ARTOP 1XX | Options |
| HAPR 114 | WINL 200 | Options |
| HAPR 201 | ARTOP 2XX | Options |
| HAPR 212 | WINL 200 | Options |
| HEED 110 | ARTOP 1XX | Options |
| HEED 120 | SCIOP 1XX | Options |
| HLSC 104 | SCIOP 1XX | Options |
| HLSC 105 | SCIOP 1XX | Options |
| HLSC 120 | BIOL 1XX | Options or Biological Sciences program requirements |
| HLSC 124 | BIOL 1XX | Options or Biological Sciences program requirements |
| HLSC 126 | BIOL 1XX | Options or Biological Sciences program requirements |
| HLSC 128 | BIOL 2XX | Options or Biological Sciences program requirements |
| HLST 150 | SCIOP 1XX | Options |
| HLST 210 | ARTOP 2XX | Options |
| HLST 290 | SCIOP 1XX | Options |
| INFM 101 | ARTOP 1XX | Options |
| INFM 202 | ARTOP 2XX | Options |
| INFM 208 | ARTOP 2XX | Options |
| INFM 209 | ARTOP 2XX | Options |


| INFM 210 | ARTOP 2XX | Options |
| :---: | :---: | :---: |
| INFM 260 | COSL 200 | Options |
| INTA 210 | ARTOP 2XX | Options; fulfills Humanities Breadth |
| INTA 362 | ARTOP 3XX | Options |
| MTST 120 | BIOL 1XX | Options or Biological Sciences program requirements |
| MTST 122 | BIOL 1XX | Options or Biological Sciences program requirements |
| MTST 125 | BIOL 1XX | Options or Biological Sciences program requirements |
| MTST 126 | BIOL 1XX | Options or Biological Sciences program requirements |
| MTST 161, MTST 162, MTST 260, MTST 261, MTST 262 | COSL 200 | Options |
| MUSC 104 | ARTOP 1XX | Options |
| MUSC 123 | ARTOP 1XX | Options; fulfills Social Science Breadth |
| MUSC 124 | ARTOP 1XX | Options; fulfills Social Science Breadth |
| PEDS 100 | BIOL 1XX | Options or Biological Sciences program requirements |
| PEDS 101 | BIOL 1XX | Options or Biological Sciences program requirements |
| PEDS 103 | BIOL 2XX | Options or Biological Sciences program requirements |
| PEDS 109 | SCIOP 1XX | Options |
| PEDS 200 | BIOL 2XX | Options or Biological Sciences program requirements |
| PEDS 203 | SCIOP 2XX | Options |
| PEDS 206 | BIOL 2XX | Options or Biological Sciences program requirements |
| PEDS 207 | BIOL 2XX | Options or Biological Sciences program requirements |
| PEDS 209 | ARTOP 2XX | Options |
| PEDS 240 | SCIOP 1XX | Options |
| PERL 104 | ARTOP 1XX | Options |
| PERL 204 | ARTOP 2XX | Options |
| PERL 207 | ARTOP 2XX | Options |
| PSSC 102 | ARTOP 1XX | Options |
| PSSC 112 | ARTOP 1XX | Options |
| PSSC 121 | SOCI 1XX | Options or Sociology program requirements; fulfills Social Science Breadth |


| PSSC 203 | ARTOP 2XX | Options |
| :---: | :---: | :---: |
| PSSC 204 | ARTOP 2XX | Options |
| PSSC 212 | ARTOP 2XX | Options |
| PSSC 252 | ARTOP 2XX | Options |
| PSSC 253 | ARTOP 2XX | Options |
| PSSC 272 | COSL 200 | Options |
| PSSC 273 | COSL 200 | Options |
| SOWK 101 | ARTOP 1XX | Options; fulfills Humanities Breadth |
| SOWK 111 | ARTOP 1XX | Options |
| SOWK 112 | ARTOP 1XX | Options |
| SOWK 203 | ARTOP 2XX | Options |
| SOWK 204 | SOCI 2XX | Options or Sociology program requirements; fulfills Social Science Breadth |
| TAST 101 | ARTOP 1XX | Options |
| TAST 129 and TAST 130 | COSL 200 | Options |
| THAR 240 | ARTOP 2XX | Options |
| THAS 101 | ARTOP 1XX | Options |
| THAS 102 | SCIOP 1XX | Options |
| THAS 115 | ARTOP 1XX | Options |
| THAS 203 | COSL 200 | Options |
| THAS 210 | COSL 200 | Options |
| THAS 211 | COSL 200 | Options |
| THAS 214 | COSL 200 | Options |
| THAS 222 | ARTOP 2XX | Options |
| THPR 205 | ARTOP 2XX | Options; fulfills Humanities Breadth |
| THPR 206 | ARTOP 2XX | Options; fulfills Humanities Breadth |
| THPR 214 | COSL 200 | Options |
| THPR 224 | COSL 200 | Options |

## Degree Regulations

Students are strongly encouraged to seek advice from the faculty advisors about program planning.

## Academic Residency - Credit Requirements

In addition to the academic residency requirements of the University, upon admission to the Bachelor of Science (BSc), students must complete at MacEwan University:

- A minimum of 24 credits at the senior-level in the major discipline, with 12 of those senior credits completed at the 300- or 400-level. All 400-level requirements are to be completed at MacEwan University.
- If applicable, a minimum of nine credits in a minor at the senior-level, with at least three of those credits completed at the 300 - or 400 -level.

Students with a previous MacEwan University credential are required to complete a minimum of 45 credits upon admission to the BSc.

Students who hold a baccalaureate degree from another post-secondary institution must complete a minimum of 60 additional MacEwan University credits applicable to the BSc. Forty-five of these credits must be completed while the students is enrolled in the BSc. This credit
requirement applies to students who began their studies at MacEwan University and completed a credential at another institution.

Students who interrupt their program and who must apply for readmission to the program will be required to comply with any new regulations upon resumption of their studies.

## Breadth Requirements

Courses taken to fulfil the major, minor, or option requirements can also be used to satisfy breadth requirements.

## Declaration of a Major and Minor

Students are advised to declare a primary major and minor, or primary major and a secondary major, or a major and two minors by the time they have completed 45 credits. Primary majors are selected from Science disciplines and consist of 42 to 60 junior- and senior-level credits; secondary majors can be from an Science or Arts discipline. Multi-disciplinary majors consist of 60-72 junior- and senior-level credits. Except for students in an Honours program, a maximum of 60 credits may be completed from any one discipline for credit towards the degree. A major and minor cannot be in the same discipline and students may not declare more than one out-of-faculty minor. Students can re-declare their major(s) and/or minor(s) if required.

For students completing multiple majors or minors, the Faculty cannot guarantee a schedule of classes that will permit students to complete their degree in eight consecutive fall and winter semesters. Furthermore, depending on the configuration of the student's degree, meeting the requirements for the degree may require the completion of more than 120 credits for graduation. Students are strongly encouraged to consult with an academic advisor in the Faculty of Arts and Science Advising Office and a discipline advisor in their major and minor prior to this declaration. Students majoring in mathematical or physical sciences may pursue a minor but are not required to do so.

## Restricted Enrolment Courses

The Faculty of Arts and Science strives to accommodate all students wishing to enrol in a given course when it is appropriate to their program: however, classes in some courses must, for academic reasons, be restricted in size. If such a course is found to be oversubscribed, priority in registration will be given to those students whose programs may require it (e.g., majors, Honours, and/or minors) and then to other students as space permits.

## Graduation Grade Point Average

As part of the Graduation Grade Point Average regulation above, Bachelor of Science students must obtain an overall GGPA of 2.0 or higher, with a minimum GPA of 2.0 on all courses credited toward the major(s) and a minimum GPA of 2.0 on all courses credited toward the minor(s).

## Graduation Requirements

Graduation requirements are governed by the date on which a student declares their major(s) and minor(s). Students who declare their major(s) and minor(s) on or before the published deadline are bound by the requirements of the current academic year. Those students who declare after this date are bound by the programs of study and degree requirements of the upcoming academic year as published in the MacEwan Academic Calendar.

## Junior - and Senior-Level Courses

Courses numbered from 100 to 199 are considered junior-level and courses numbered from 200 to 499 are considered senior-level.

## Major or Minor 300- and 400- Level Requirements

The 300- and 400-level requirements in the major or minor cannot consist solely of project, field placement, and/or individual study courses.

## Maximum Independent Courses

The maximum number of credits for independent work (project, field placement, and/or individual study courses) excluding the Honours Thesis, is 15 credits. Specific disciplines may have further restrictions.

## Maximum Junior-Level Courses

A maximum of 48 credits at the 100 -level are permitted in completion of the B.Sc. degree. Additional courses at the 100-level are extra to the 120 credits required to complete the B.Sc. degree and will not be counted toward fulfilment of graduation requirements.

## Minimum Science Courses

Students are required to complete successfully a minimum of 72 total credits from Science courses.

## Minimum Passing Grade

A minimum grade of $D$ or credit $C R$ is required for all Science degree courses unless otherwise noted next to the appropriate course in the program of study.

## Minimum Transfer Grade for Credit

A minimum grade of $D$ is required on any transfer credit granted for the program. Unless otherwise stated, Arts and Science courses require a minimum grade of C - when the course is used as a prerequisite. Transfer credit decisions made by the university are final and cannot be appealed.

## Out-of-Faculty Options Requirements

Students may take a maximum of 18 credits from courses offered by a MacEwan University Faculty or School other than Arts and Science. Students completing an out-of-faculty minor or laddering students who have met the minor requirements with a MacEwan University diploma must complete their degree requirements from courses offered within the Faculty of Arts and Science or from the list of Cross-Faculty Course Recognitions in the Academic Calendar. Courses deemed as Cross-Faculty Course Recognitions are used to fulfill in-Faculty courses within the BSc and do not count as out-of-Faculty options.

## Progression of Studies

Students are responsible for ensuring they meet the prerequisite and/or co-requisite requirements as noted on all courses that may fulfill Bachelor of Science program requirements.

## Honours Regulations

## Overall Requirements

The Honours program of study consists of 63 to 84 credits as determined by the discipline. Students in the Honours program may choose to complete a minor outside of the Honours discipline. Some disciplines may require a minor.

## Acceptance to Honours

For consideration of admittance/acceptance into Honours, students must present a minimum of 45 university-level credits applicable to the
program of study, with a GPA of 3.0 or higher. They must complete 24 of the 45 credits in the last 12 months; however, exceptions to this rule may occur with the approval of the Honours discipline advisor. Individual departments may have additional requirements noted in their program of study.

## Course Load

Students accepted into an Honours program must complete 24-credits in each twelve consecutive months they are in the program. Exceptions to this rule may occur with the approval of the Honours discipline advisor.

## Grade Point Average

Students accepted and enrolled in the Science Honours program must maintain a minimum overall GPA of 3.0 across all courses in the degree. As well, students must maintain a minimum GPA of 3.3 across a set of courses designated by each discipline for each twelve consecutive months following acceptance into the Honours program. Failure to do so will result in the student's program status reverting to BSc with a major in the previous Honours discipline.

## Graduation Grade Point Average

In order to graduate, students must obtain an overall GGPA of 3.0 or higher, with a minimum GPA of 3.3 on all courses credited toward the Honours program of study.

## Program Learning Outcomes

## Faculty of Arts and Science Degree-Level Learning Outcomes

Thinking about knowledge is at the core of University education and learning within the Faculty of Arts and Science. Students develop capacities to "thinkthrough" - to practice wonder, reflection, and engage in thoughtful inquiry and dialogue. Thinking-through involves questioning beyond the confines of one's immediate personal, social, and disciplinary surroundings. First, knowledge is acquired and understood. Learning moves beyond acquiring information and data to a formally disciplined manner of thinking about knowledge. Next, knowledge is interrogated by asking and answering questions, distinguishing between opinion and knowledge, and developing tools to assess reasons and evidence. Finally, knowledge is synthesized as students develop coherent arguments, and link ideas together beyond what is immediately apparent. Learning is a lifelong creative process of discovery and action that happens beyond the classroom and the degree. Our graduates interact with and contribute to their community by integrating and applying the research and communication skills and ways of knowing developed through their education. Learning outcomes capture the observable knowledge, skills, and abilities graduates acquire that are the foundation of learning.

Graduates will demonstrate their ability to "think-through" by:
i. Analysing puzzles, problems, concepts, and theories.
ii. Conceptualizing questions based on disciplinary knowledge.
iii. Evaluating knowledge within and across disciplines in ways that acknowledge historical, cultural, and social contexts.

Graduates will demonstrate research and scholarship skills by:
iv. Applying appropriate research skills and ethical principles.
v. Interpreting results appreciating the value and limits of conclusions.
vi. Recognizing how research involves an ongoing process of reflection, dialogue, and reassessment.

Graduates will demonstrate diverse skills for communication by:
vii. Conveying complex ideas coherently in a variety of formats.
viii. Appraising information in ways that consider context and audience.
ix. Interpreting the ideas and arguments of others in ways that reflect their knowledge, judgement, and comprehension.

Graduates will demonstrate durable skills necessary for learning beyond their degree by:
$x$. Collaborating with diverse groups.
xi. Examining different perspectives and challenging biases and preconceptions.
xii. Exploring the continuous impact and limitations of disciplinary knowledge and expertise.

## Admission Requirements

Applicants may be admitted to one of the following:

## Regular Admission

To be evaluated through the Office of the University Registrar
Applicants must have a minimum overall average of 65 percent, with no course grade lower than 50 percent, in the following high school courses:

1. ELA 30-1
2. Mathematics 30-1
3. Two of Biology 30, Chemistry 30, Mathematics 31, Physics 30, or Computing Science-Advanced Career and Technology Studies (5 credits)
4. One subject from Group A, B, C or D

## Notes:

- A maximum of one Group D subject may be presented. Group D subjects used for admission must be 5-credit or any credit combination of at least 5 credits (e.g., two 3 -credit subjects).

Applicants with nine to 23 university-level credits must also present a minimum Admission Grade Point Average (AGPA) of 2.0 on a 4.0 scale. Applicants with 24 or more university-level credits will be considered under Previous Post-Secondary Work.

## Mature Admission

To be evaluated through the Office of the University Registrar
Applicants must be Canadian Applicants, 20 years of age or older, and have been out of full-time high school at least one year by the beginning of the intake term. Applicants must have a minimum overall average of 60 percent, with no course grade lower than 50 percent, in the following high school courses:

1. ELA 30-1
2. Mathematics 30-1
3. Two of Biology 30, Chemistry 30, Mathematics 31, Physics 30, or Computing Science-Advanced Level Career and Technology Studies (5 credits)

Applicants with nine to 23 university-level credits must also present a minimum Admission Grade Point Average (AGPA) of 2.0 on a 4.0 scale.

Applicants with 24 or more university-level credits will be considered under Previous Post-Secondary Work.

## Previous Post-Secondary Work

To be evaluated through the Office of the University Registrar
Admission in this category does not imply or guarantee the transfer of any coursework and/or credential unless a block transfer agreement (internal or external) is in effect and published in the calendar by the Office of the University Registrar. In addition, transfer of coursework does not imply or guarantee that an applicant will be admitted.

Applicants must have successfully completed the following:

- A minimum of 24 university-level credits, from a recognized institution, with a minimum Admission Grade Point Average (AGPA) of 2.0 on a 4.0 scale.
- The required mathematics and science courses listed under the Regular or Mature Admission category.


## Additional Admission Criteria

All applicants must meet the following:

## 1. English Language Proficiency

To be evaluated through the Office of the University Registrar

## Applicable to All Admission Categories

All applicants must meet an acceptable level of English language proficiency. We will require official documents such as high school or post-secondary transcripts or proof of successful completion of standardized language evaluation. Full details are available in MacEwan University's academic calendar or online at MacEwan.ca/ELP (http:// MacEwan.ca/ELP/).

## 2. Other Admission Criteria

## To be evaluated through the Office of the University Registrar

## Applicable to All Admission Categories

Applicants who have been assigned two unsatisfactory academic records within the past five years will not be considered for admission or readmission to the program until a minimum three years from the date of the assignment of the last unsatisfactory academic record. For the purpose of admission or re-admission, an unsatisfactory record is defined as a transcript with the notation 'required to withdraw' or equivalent.

