Arts and Science 101: Handbook
2018-2019
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Registration Resources

- Steps to Registration: [www.QUartsci.com/1styear](http://www.QUartsci.com/1styear)
- First year registration hotline: Call us at (613) 533-6708 if you need help with registration. Our phone lines will be open Monday through Friday from 9:00 am to noon; 1:00 to 4:00 pm EST. We will offer extended hours from 4:00 to 7:00 pm EST on July 16 & 17.
- Arts and Science Facebook Page: [www.facebook.com/queensartsci](http://www.facebook.com/queensartsci)
- Faculty of Arts and Science Registration email: [asc.registration@queensu.ca](mailto:asc.registration@queensu.ca)
- Faculty Office, Student Services: Dunning Hall – First Floor, 94 University Avenue
  - Phone: 613-533-2470
  - Our doors are open Monday-Friday from 8:30 am to 4:30 pm. Our phones are answered Monday-Friday from 9:00 am to noon; 1:00 to 4:00 pm EST.
  - The Office will be operating under reduced services from August 6 – August 17. Academic advising will not be available.
- Faculty of Arts & Science Academic Calendar (regulations): [www.queensu.ca/artsci/academic-calendar](http://www.queensu.ca/artsci/academic-calendar)
  - *It is strongly suggested that students read the University's Code of Conduct on the internet at [http://queensu.ca/secretariat/policies/student-policy-index](http://queensu.ca/secretariat/policies/student-policy-index) and familiarize themselves with the statement of Student Responsibility and the Faculty's Regulations.*
- Peer Academic Support Service (PASS) Advising for First-Year Students in the Faculty Office, Student Services:
  - Dunning Hall – First Floor, 94 University Avenue
  - Monday-Friday from 9 am to 4:00 pm, beginning Tuesday, September 4th.
- Peer tutoring service through Arts and Science Undergraduate Society: [https://tutor.queensasus.com/](https://tutor.queensasus.com/)
## Important Dates

### JULY

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>9</td>
<td>Students can access the Student Centre on SOLUS to view enrollment appointment times</td>
</tr>
<tr>
<td>9</td>
<td>Students may begin adding their classes into the shopping cart in SOLUS.</td>
</tr>
<tr>
<td>12</td>
<td>Summer Orientation to Academics and Resources (SOAR). For information and to register see: <a href="http://www.queensu.ca/studentexperience/summer-orientation-soar">http://www.queensu.ca/studentexperience/summer-orientation-soar</a></td>
</tr>
<tr>
<td>13</td>
<td>Summer Orientation to Academics and Resources (SOAR). For information and to register see: <a href="http://www.queensu.ca/studentexperience/summer-orientation-soar">http://www.queensu.ca/studentexperience/summer-orientation-soar</a></td>
</tr>
<tr>
<td>14</td>
<td>Summer Orientation to Academics and Resources (SOAR). For information and to register see: <a href="http://www.queensu.ca/studentexperience/summer-orientation-soar">http://www.queensu.ca/studentexperience/summer-orientation-soar</a></td>
</tr>
<tr>
<td>15</td>
<td>Summer Orientation to Academics and Resources (SOAR). For information and to register see: <a href="http://www.queensu.ca/studentexperience/summer-orientation-soar">http://www.queensu.ca/studentexperience/summer-orientation-soar</a></td>
</tr>
<tr>
<td>16</td>
<td>Enrollment appointment times for 1st year BSCH, BCMPH students; students may begin enrolling in classes.</td>
</tr>
<tr>
<td>17</td>
<td>Enrollment appointment times for 1st year BAH, BFAH, BMUS students; students may begin enrolling in classes.</td>
</tr>
<tr>
<td>23</td>
<td>Program specific restrictions are removed from 1st year classes at 12:00 pm EST</td>
</tr>
<tr>
<td>26</td>
<td>Enrollment restrictions are lifted from all classes at 12:01 am EST</td>
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</tbody>
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### AUGUST

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<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>3</td>
<td>Last day to enrol in classes</td>
</tr>
<tr>
<td>6</td>
<td>Registration hiatus Aug 6 to 17 (no access to class enrollment; no academic advising)</td>
</tr>
<tr>
<td>21</td>
<td>Open Enrollment begins for students to add and drop classes at 12:00 am EST</td>
</tr>
</tbody>
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### SEPTEMBER

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>1</td>
<td>Tuition fees due for Fall Term.</td>
</tr>
<tr>
<td>1</td>
<td>Residence Move-In Day &amp; Orientation; Welcoming Ceremony for new students</td>
</tr>
<tr>
<td>3</td>
<td>Labour Day</td>
</tr>
<tr>
<td>3-5 &amp; 8th</td>
<td>Arts &amp; Science Orientation</td>
</tr>
<tr>
<td>6</td>
<td>Fall Term classes begin.</td>
</tr>
<tr>
<td>19</td>
<td>Last day to add classes for Fall Term.</td>
</tr>
<tr>
<td>19</td>
<td>Last day to drop classes for Fall Term without financial penalty.*</td>
</tr>
</tbody>
</table>
In order to understand how your degree works, you need to first learn some important terms.

What is a Program?
Upon entering first year, you have been admitted to the Faculty of Arts and Science to one of the following Degree Programs:

- Bachelor of Science (Honours) – BSCH
- Bachelor of Arts (Honours) – BAH
- Bachelor of Science (Honours) Specialization in Kinesiology – BSCH KINE
- Bachelor of Music (Honours) – BMUS
- Bachelor of Computing (Honours) – BCMPH
- Bachelor of Fine Art (Honours) – BFAH

What is a Plan?
A plan is a major, medial (similar to a double major) or specialization in a discipline. You can also add a minor to your plan. You will declare your plan at the end of first year, so don’t worry too much about it yet. Officially it’s an approved set of courses required to focus in an area of study. The depth of focus may vary according to Plan type. More than one Plan may be required to obtain a degree.

What is a Unit?
Each course has a weighting. Most courses are either 3.0 (single-term) units or 6.0 (multi-term) units. There are a few exceptions where course units don’t follow this standard. To graduate, it’s not the number of courses you complete, but rather the number of units – so make sure to watch your unit count. A full time student normally takes five courses (30.0 units) per year. Students in BMUS, BA/BEd and BA/BPHE have a load higher than 30.0 units per year.

What is the Calendar?
The Academic Calendar is not really a calendar at all – it is a collection of important information concerning admission, academics, appeals, dual and second degree regulations. The Calendar also outlines departmental information, programs and degree plans, certificates, courses of instruction, course lists, and academic calendar dates.

Academic Calendar Definitions

Admission: the Faculty’s acceptance of an applicant as a student

Auditor: student who attends a course with the consent of the instructor; formal registration required but student does not receive credit for course and is not entitled to submit exercises or write examinations

Certificate: provides students with the opportunity for new expanded credentials that can help students develop both general and specific skills that meet their particular career needs and address society’s needs by preparing students appropriately for careers that they will pursue after leaving Queen’s.

Class: a particular offering of a given course

Corequisite: a requirement that must be fulfilled concurrently with another course

Course: a prescribed set of study and evaluation, used for academic credit towards a degree Program
**Core:** a course that is required, or is selected from an extremely limited list of courses, in a Plan

**Elective:** a course freely chosen by the student

**Equivalency:** a pair of courses of equal unit value, one of which is no longer offered, which are considered to be similar enough that one may serve interchangeably for the other in terms of prerequisites, corequisites, exclusions, and plan and program requirements. Credit will only be given for one of the pair.

**Exclusion:** a list of two or more courses that are considered similar enough that credit will only be given for a defined subset of courses from that list. Usually, holding credit for an excluded course(s) will prevent registration of the remaining courses on the list

**GPA (grade point average):** the unit-weighted average grade in a set of courses

**Level in program:** determined by the number of passed units completed toward the requirements of the concentration, as specified by the Department:
- 0.0 - 23.9 (level 1)
- 24.0 - 47.9 (level 2)
- 48.0 - 83.9 (level 3)
- 84.0 and above (level 4)

**One-way exclusion:** a course that will prevent registration if taken with or before another course

**Option:** a course chosen from a limited list of courses specified in a Plan. The degree of choice may vary according to the Plan

**Part-time student:** may take at most 18.0 units in the Fall-Winter Session; may take at most 9.0 units in either Fall or Winter terms

**Personal Interest Credit (PIC):** encourages students to explore subject matter outside their program of study and promotes interdisciplinary study whereby students will be permitted to designate up to 6.0 units of degree-credit courses for pass/fail grading, thereby minimizing any risk to the students’ GPA.

**NOTE:** This is available to upper year students only.

**Prerequisite:** a requirement that must be met prior to registration in a course

**Registration:** a student’s enrolment in a course or courses

**Session:** an academic period within a Term. Start and end dates for each Session are published annually under Academic Dates and Key Dates in the Academic Calendar

**Subject:** a defined area of study

**Supporting course:** a course in a Plan that complements the area of study; some Plans have required supporting courses (e.g. mathematics courses in a Physics Plan); others do not

**Term:** an academic period during the calendar year. There are three terms: Fall (September-December), Winter (January-April), Summer (May-August). Start and end dates for each Term are published annually under Academic Dates and Key Dates
How Units Work

OPTION 1: MAJOR
- Electives 60 Units
- Major 60 Units

OPTION 2: MAJOR - MINOR
- Minor 30 Units
- Electives 30 Units
- Major 60 Units

OPTION 3: MEDIAL
- Medial 42 Units
- Medial 42 Units
- Electives 36 Units
How Units Work

**OPTION 1: MAJOR**
- Electives 48-60 Units
- Major 60 Units + up to 12 supporting units

**OPTION 1: MAJOR**
- Electives 18-30 Units
- Minor 30-48 Units
- Major 60 Units + up to 12 supporting units

**OPTION 3: SPECIALIZATION**
- Electives 12-36 Units
- Specialization 84-108 Units
How to read a degree

This is an example of a page from the Degree Plan Section of the Arts and Science Calendar that outlines the Program Requirements for a Major in Life Sciences. All requirements for all of the subjects that offer plans at Queen's, including Majors, Specializations, Medials, Minors, and General Degrees, are located in the Degree Plan section on the Arts and Science Calendar.

<table>
<thead>
<tr>
<th></th>
<th>Core</th>
<th>(30.0 units)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>6.0 units</td>
<td>in BIOL 102/3.0 and BIOL 103/3.0</td>
</tr>
<tr>
<td>B</td>
<td>6.0 units</td>
<td>in CHEM 112/6.0</td>
</tr>
<tr>
<td>C</td>
<td>6.0 units</td>
<td>from RCHM 218/3.0 and (MICR 231/3.0 or MICR 271/3.0)</td>
</tr>
<tr>
<td>D</td>
<td>6.0 units</td>
<td>in CHEM 281/3.0 and CHEM 282/3.0</td>
</tr>
<tr>
<td>E</td>
<td>6.0 units</td>
<td>from PHGY 215/3.0 or PHGY 216/3.0 or PHGY 218/5.0 or PHGY 219/5.0</td>
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<thead>
<tr>
<th></th>
<th>Option</th>
<th>(30.0 units)</th>
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<tbody>
<tr>
<td>A</td>
<td>3.0 units</td>
<td>from LISC_List_A at the 400 level or above</td>
</tr>
<tr>
<td>B</td>
<td>15.0 units</td>
<td>from LISC_List_A at the 300 level or above</td>
</tr>
<tr>
<td>C</td>
<td>6.0 units</td>
<td>from LISC_List_A at the 200 level or above</td>
</tr>
<tr>
<td>D</td>
<td>6.0 units</td>
<td>from LISC_List_A</td>
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<thead>
<tr>
<th></th>
<th>Supporting</th>
<th>(12.0 units)</th>
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<tbody>
<tr>
<td>A</td>
<td>6.0 units</td>
<td>from PHYS 104/6.0, PHYS 106/6.0, PHYS 117/6.0</td>
</tr>
<tr>
<td>B</td>
<td>6.0 units</td>
<td>from MATH 120/6.0, MATH 121/6.0, (MATH 123/3.0 and MATH 124/2.0)</td>
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<th>Additional Requirements</th>
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<tbody>
<tr>
<td>A</td>
<td>No more than 15.0 units chosen from LISC_List_A may be in PSYC or BIOL.</td>
</tr>
<tr>
<td>B</td>
<td>No more than 9.0 units from LISC_List_A may be BMED approved option courses.</td>
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<tr>
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<th>Substitutions</th>
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<th>Notes</th>
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<tbody>
<tr>
<td>A</td>
<td>Students wishing to take upper-year PSYC courses as options should take PSYC 100/6.0 as an elective.</td>
</tr>
<tr>
<td>B</td>
<td>Students wishing to take 300- and 400-level BIOL courses as options must first take the prerequisite BIOL 205/3.0 as option under 2.C.</td>
</tr>
<tr>
<td>C</td>
<td>Students in the LISC Specialization Plan will be given priority for all 499 courses (ANAT 459/12.0, CANC 499/12.0, EPID 499/12.0, LISC 499/12.0, MICR 499/12.0, NSCI 499/12.0, PATH 499/12.0, PHGY 499/12.0, and PHAR 499/12.0). Permission to take any of these courses must be approved by the Associate Dean (Life Sciences and Biochemistry).</td>
</tr>
</tbody>
</table>

To see more degree plans, click [HERE](#)
Direct Entry Programs & Automatic Registration

If you were admitted to Concurrent Education (Con-Ed) Arts, Science, Music, Fine Art or the Kinesiology or Bachelor of Music programs you will be automatically registered in some of your classes.

**Con-Ed Arts or Science**, you will need to select 30.0 units of Arts and Science classes. Con-Ed Music, see below for selection of Music classes. Con-Ed Fine Art, see below for selection of Art classes.

Please note that you will be automatically enrolled into:

- PROF 110/3.0
- PRAC 110/1.5

**Note**: the PROF and PRAC classes are both full-year with A & B sections. The PRAC course is not in your schedule because it is not a weekly class...it reflects a two-week placement that happens outside of class time (at the Holiday Break, in Reading Week, or after final exams).
**Kinesiology**, you will need to pick 6.0 units of classes. It is recommended that the additional 6.0 units are selected from the Kinesiology – Natural & Physical Sciences **category** however an elective choice is also possible. Your Kinesiology core classes (see below) are automatically added into your timetable for you.

- HLTH 101/3.0 (core)
- KNPE 125/3.0 (core)
- KNPE 153/3.0 (core)
- KNPE 167/3.0 (core)
- PSYC 100/6.0 (core)
- BIOL 102/3.0 (science option)*
- BIOL 103/3.0 (science option)*

**Important Note:** These two Biology classes are NOT core for Kinesiology students. Therefore, if you are not interested in taking one or both of these classes next year, you may go ahead and drop them. They were automatically loaded for all Kinesiology students to make it easier to access a lecture and lab section that fits with the required classes for Kinesiology. Although typically the majority of students **want** to take these classes, you do not **have** to.

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**Bachelor of Fine Art**, you will need to pick 12.0 units of classes. If you are in Con-Ed, we recommend that all students enroll in PSYC 100/6.0. If you plan to teach high school, the other 6.0 units should begin your second teaching subject. If you plan to teach elementary school, you may choose anything that interests you.

Your ARTF core classes (see below) are automatically added into your timetable for you.

- ARTF 127/6.0
- ARTF 128/6.0
- ARTH 120/6.0

**Important Note:** ARTF courses consist of 12 hours of studio classes plus 12 hours of independent studio activities per week.

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**Bachelor of Music**, you will need to pick 6.0 units of classes. Your Music core classes (see below) are automatically added into your timetable for you.

- MUSC 121/6.0
- MUSC 127/3.0 and MUSC 129/3.0
- MUSC 191/6.0
- MUTH 110/3.0
- MUTH 111/3.0

**Note:** You will need to audition for ensembles in early September; see

[https://sdm.queensu.ca/undergraduate/music/current-music-students/auditions/ensemble-course-auditions/](https://sdm.queensu.ca/undergraduate/music/current-music-students/auditions/ensemble-course-auditions/) for more information. Students will be automatically enrolled in ensembles upon successful audition results.
Choose your Courses

- Ensure you have the prerequisites to access the Plan you will select at the end of first year.
- Consider taking one course that expands your horizons.
- Accept that you can’t do everything: this means hard choices!

WHAT CAN YOU STUDY?

It’s really up to you! As a first-year student you are not yet in a specific Plan or major (unless you were admitted to a Direct Entry program) so this year is all about exploring different areas of study to find out what your true interests are. You are encouraged to take a variety of courses from different disciplines and to explore the range of subjects available to you. After this year, the academic groundwork will be laid for several possible Plan options. You will then be prepared to make well-informed choices about how you would like your degree to take shape.

For a list of all course descriptions, visit our online Calendar
Courses

Core Courses
These are required courses in your Plan for which there is little or no choice in the course that must be taken. (Remember, you will select your Plan at the end of first year unless you were admitted to a Direct Entry program.)

Option Courses
These are required courses in your Plan, but there is significant choice allowed in the course(s) that may be taken. (Remember, you will select your Plan at the end of first year unless you were admitted to a Direct Entry program).

Supporting Courses
These are courses from other disciplines that are required as prerequisites to upper-year courses within your Plan.

*these are all found on the degree plan pages within the Academic Calendar

Students should attempt to select a combination of 5 courses that will leave them with as many Plan options for their second year as possible. A "terminal course" refers to a course that does not lead to a Plan. It is recommended to have between 3 and 4 options for Plans going into second year and Choose Your First-Year Courses also offers a list of subject areas that may lead to Plans.

Exclusions: An exclusion refers to two courses that are so similar they cannot be counted twice towards your Program requirements. This will be obvious in cases where the course maps directly onto one offered at Queen's, i.e. an AP Chemistry credit transfers directly as the first-year chemistry course CHEM 112. In some other cases, however, the course does not overlap directly onto a single course but onto a combination of Queen's courses. In this case an "Unspecified" status may be assigned to the course preventing students from enrolling in specific courses deemed too similar.

For a list of all course descriptions, visit our online Calendar
Most Arts and Science first-year students are in an ASC1 (general Arts and Science Year 1) Plan. You will be required to choose a Plan at the end of 1st year. The list allows you to plan what courses to take in first year so you can maximize your options and flexibility in your upper years.

<table>
<thead>
<tr>
<th>Desired Plan</th>
<th>Recommended Courses</th>
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<tbody>
<tr>
<td>Applied Economics (ECON) Major</td>
<td>• ECON 110/6.0 or&lt;br&gt;• ECON 111/3.0 and ECON 112/3.0 (if studying at the Bader International Study Centre)&lt;br&gt;• MATH 126/6.0 or MATH 121/6.0</td>
</tr>
<tr>
<td>Art History (ARTH) Major, Medial, Minor</td>
<td>• ARTH 120/6.0 or&lt;br&gt;• ARTH 116/3.0 and ARTH 117/3.0 (if studying at the Bader International Study Centre)</td>
</tr>
<tr>
<td>Astrophysics (ASPH) Specialization</td>
<td>• MATH 110/6.0 or MATH 111/6.0&lt;br&gt;• MATH 120/6.0 or MATH 121/6.0&lt;br&gt;• PHYS 104/6.0 or PHYS 106/6.0&lt;br&gt;• CHEM 112/6.0</td>
</tr>
<tr>
<td>Biochemistry (BCHM) Specialization, Major, Minor</td>
<td>• BIOL 102/3.0&lt;br&gt;• BIOL 103/3.0&lt;br&gt;• CHEM 112/6.0&lt;br&gt;• MATH 121/6.0&lt;br&gt;• PHYS 104/6.0 or PHYS 106/6.0 or PHYS 117/6.0</td>
</tr>
<tr>
<td><strong>Note:</strong> Although Physics is not required for the Minor Plan, it is recommended if you wish to keep your options open for a change to a Chemistry, Geology, Life Sciences or Physics Plan in the future.</td>
<td></td>
</tr>
<tr>
<td>Biology (BIOL) Specialization, Major, Minor</td>
<td>• BIOL 102/3.0&lt;br&gt;• BIOL 103/3.0&lt;br&gt;• CHEM 112/6.0&lt;br&gt;• MATH 121/6.0</td>
</tr>
<tr>
<td><strong>Note:</strong> For the Specialization and Major Plan it is highly recommended that you take:&lt;br&gt;• PHYS 106/6.0 or PHYS 117/6.0</td>
<td></td>
</tr>
<tr>
<td><strong>Note:</strong> Although Physics is not required for the Minor Plan, it is recommended if you wish to keep your options open for a change to a Chemistry, Geology, Life Sciences or Physics Plan in the future.</td>
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</tr>
<tr>
<td>Desired Plan</td>
<td>Recommended Courses</td>
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<tr>
<td>Biology &amp; Mathematics (BIMA) Specialization</td>
<td>- BIOL 102/3.0&lt;br&gt;- BIOL 103/3.0&lt;br&gt;- CHEM 112/6.0&lt;br&gt;- MATH 110/6.0 or MATH 111/6.0&lt;br&gt;- MATH 120/6.0 or MATH 121/6.0</td>
</tr>
<tr>
<td>Biology &amp; Psychology (BIPS) Specialization</td>
<td>- BIOL 102/3.0&lt;br&gt;- BIOL 103/3.0&lt;br&gt;- CHEM 112/6.0&lt;br&gt;- PSYC 100/6.0</td>
</tr>
<tr>
<td>Biotechnology (BTEC) Specialization</td>
<td>- BIOL 102/3.0&lt;br&gt;- BIOL 103/3.0&lt;br&gt;- CHEM 112/6.0&lt;br&gt;- MATH 121/6.0</td>
</tr>
<tr>
<td>Biomedical Computing (BMCO) Specialization</td>
<td>- CISC 121/3.0 (Fall)&lt;br&gt;- CISC 124/3.0 (Winter)&lt;br&gt;- BIOL 102/3.0&lt;br&gt;- BIOL 103/3.0&lt;br&gt;- CHEM 112/6.0&lt;br&gt;- MATH 121/6.0&lt;br&gt;- CISC 102/3.0&lt;br&gt;- MATH 111/6.0 or MATH 112/3.0</td>
</tr>
<tr>
<td>Chemistry (CHEM) Specialization, Major, Minor</td>
<td>- CHEM 112/6.0&lt;br&gt;- MATH 112/3.0 or MATH 111/6.0 or MATH 110/6.0&lt;br&gt;- MATH 121/6.0&lt;br&gt;- PHYS 104/6.0 or PHYS 106/6.0 or PHYS 117/6.0</td>
</tr>
<tr>
<td>Desired Plan</td>
<td>Recommended Courses</td>
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</table>
| **Classical Studies (CLST) Specialization, Major, Medial, Minor** | - CLST 102/3.0 and CLST 103/3.0  
*Note: If you hold Grade 12 Latin or Greek or equivalent, you may be able to start at the second year level in the language.* |
| **Cognitive Science (COGS) Specialization** | - COGS 100/3.0  
- CISC 121/3.0 (Fall)  
- CISC 124/3.0 (Winter)  
- CISC 102/3.0  
- MATH 111/6.0 or MATH 112/3.0  
- 2 of LING 100/6.0 or PSYC 100/6.0 or (PHIL 111/6.0 or PHIL 115/6.0)  
*Note: Students without previous programming experience should replace CISC 121/124 with CISC 101 in the Fall Term and CISC 121 in the Winter Term then take CISC 124 in the Fall Term of second year.* |
| **Computing (COMP) Major, Minor** | - CISC 121/3.0 (Fall)  
- CISC 124/3.0 (Winter)  
- CISC 102/3.0  
- MATH 121/6.0  
- MATH 111/6.0 or MATH 112/3.0  
*Note: Students without previous programming experience should replace CISC 121/124 with CISC 101 in the Fall Term and CISC 121 in the Winter Term then take CISC 124 in the Fall Term of second year.*  
*Note: Students intending to do a COMP Minor plan take one of CISC 102/3.0 or MATH 110/6.0. The remaining MATH courses indicated above are not required.* |
| **Computing and the Creative Arts (COCA) Specialization** | - CISC 121/3.0 (Fall)  
- CISC 124/3.0 (Winter)  
- CISC 102/3.0  
- At least 6.0 units in one of the following creative arts disciplines:  
  - ARTH 120/6.0  
  - FILM 110/6.0  
  - DRAM 100/6.0  
  - MUSC 104/3.0, MUSC 156/3.0, MUSC 191/6.0, (MUTH 110 or 111)  
*Note: Students without previous programming experience should replace CISC 121/124 with CISC 101 in the Fall Term and CISC 121 in the Winter Term then take CISC 124 in the Fall Term of second year.*  
*Note: MATH 121/6.0 is recommended if you wish to keep your options open to switch into another Computing Plan.* |
<table>
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<tr>
<th>Desired Plan</th>
<th>Recommended Courses</th>
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</thead>
</table>
| Computing and Mathematics (COMA) Specialization | - CISC 121/3.0 (Fall)  
- CISC 124/3.0 (Winter)  
- MATH 120/6.0 or MATH 121/6.0  
- MATH 110/6.0 or MATH 111/6.0  
**Note:** Students without previous programming experience should replace CISC 121/124 with CISC 101 in the Fall Term and CISC 121 in the Winter Term then take CISC 124 in the Fall Term of second year. |
| Computer Science (CSCI) Specialization           | - CISC 121/3.0 (Fall)  
- CISC 124/3.0 (Winter)  
- CISC 102/3.0  
- MATH 121/6.0  
- MATH 111/6.0 or MATH 112/3.0  
**Note:** Students without previous programming experience should replace CISC 121/124 with CISC 101 in the Fall Term and CISC 121 in the Winter Term then take CISC 124 in the Fall Term of second year. |
| Drama (DRAM) Major, Medial, Minor                 | - DRAM 100/6.0 or DRAM 181/6.0 or  
- BISC 100/3.0 and BISC 101/3.0 *(if studying at the Bader International Study Centre)*                                                                                                                                                                                                 |
| Earth System Science (EGPY, Sub-discipline in Environmental Science) Specialization | - BIOL 111/3.0 or BIOL 103/3.0  
- CHEM 112/6.0  
- GPHY 101/3.0  
- GPHY 102/3.0  
- GEOL 104/3.0  
- MATH 111/6.0 or MATH 121/6.0  
- PHYS 106/6.0 or PHYS 117/6.0  
**Note:** The initial requirements of this Plan leave no room for electives in first year. You may defer the Biology or Physics requirements to second year and fill the space with an elective(s) in first year. |
| Economics (ECON) Major, Medial, Minor             | - ECON 110/6.0 or ECON 111/3.0 and ECON 112/3.0  
- MATH 126/6.0 or MATH 121/6.0                                                                                                                                                                                                                                                                 |
| Economics (ECPP) Sub-plan in Politics, Philosophy and Economics Specialization | - ECON 110/6.0 or ECON 111/3.0 and ECON 112/3.0  
- 6.0 units from PHIL at the 100-level  
- POLS110/6.0                                                                                                                                                                                                                                                                            |
<p>| English Language &amp; Literature (ENGL) Major, Medial, Minor | - ENGL 100/6.0                                                                                                                                                                                                                                                                                                                                                           |</p>
<table>
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<tr>
<th>Desired Plan</th>
<th>Recommended Courses</th>
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| Environmental Science (ENSC)                      | • BIOL 103/3.0 or BIOL 111/3.0  
                                             • CHEM 112/6.0  
                                             • ENSC103/3.0  
                                             • GPHY 101/3.0  
                                             • GPHY 102/3.0  
                                             • GEOL 104/3.0 or GEOL 107/3.0  
                                             • Any 6.0 units from MATH (If undecided, choose MATH 121/6.0) |
| **Major, Minor**                                  |                                                                                      |
| Environmental Biology (EBIO, Sub-discipline in   | • BIOL 102/3.0  
                                             • BIOL 103/3.0  
                                             • CHEM 112/6.0  
                                             • ENSC103/3.0  
                                             • GPHY 101/3.0  
                                             • GPHY 102/3.0  
                                             • GEOL 104/3.0 or GEOL 107/3.0  
                                             • MATH 111/6.0 or MATH 121/6.0 |
| Environmental Science) Specialization            |                                                                                      |
| Environmental Chemistry (ECHM, Sub-discipline in  | • BIOL 111/3.0 or BIOL 103/3.0  
                                             • CHEM 112/6.0  
                                             • ENSC103/3.0  
                                             • GPHY 101/3.0  
                                             • GPHY 102/3.0  
                                             • GEOL 104/3.0 or GEOL 107/3.0  
                                             • MATH 111/6.0 or MATH 121/6.0  
                                             • PHYS 104/6.0 or PHYS 106/6.0 |
| Environmental Science) Specialization            |                                                                                      |
| Environmental Geology (EGEO, Sub-discipline in    | • BIOL 103/3.0 or BIOL 111/3.0  
                                             • CHEM 112/6.0  
                                             • ENSC103/3.0  
                                             • GPHY 101/3.0  
                                             • GPHY 102/3.0  
                                             • GEOL 104/3.0  
                                             • GEOL 107/3.0  
                                             • MATH 121/6.0  
                                             • PHYS 106/6.0 or PHYS 117/6.0 |
| Environmental Science) Specialization            |                                                                                      |

**Note:** The initial requirements of this Plan leave no room for electives at first year. You may defer Geography or Geology to second year.
<table>
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<tr>
<th>Desired Plan</th>
<th>Recommended Courses</th>
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</table>
| Environmental Life Science (ELSC, Sub-discipline in Environmental Science) **Specialization** | • BIOL 102/3.0  
• BIOL 103/3.0  
• CHEM 112/6.0  
• ENSC103/3.0  
• GPHY 101/3.0  
• GPHY 102/3.0  
• GEOL 104/3.0 or GEOL 107/3.0  
• MATH 112/3.0, MATH 111/6.0 or MATH 121/6.0  
• PHYS 106/6.0 or PHYS 117/6.0  
**Note:** If you are considering a Major in Life Sciences or Biology take MATH 121.  
**Note:** There are actually only 3.0 units required in MATH at the 100 level or STAT at the 200-level or above. If you don’t want to take MATH 112, 111 or 121 you can wait and take a STAT 263 in year 2 or 3. All other MATH and STAT courses have prerequisites |
| Environmental Toxicology (ETOX, Sub-discipline in Environmental Science) **Specialization** | • BIOL 102/3.0  
• BIOL 103/3.0  
• CHEM 112/6.0  
• ENSC103/3.0  
• GPHY 101/3.0  
• GPHY 102/3.0  
• GEOL 104/3.0  
• MATH 111/6.0 or MATH 121/6.0  
**Note:** If you are considering a Major in Life Sciences take MATH 121 and take one of PHYS 106/6.0 or PHYS 117/6.0. If you are considering a Major in Biology take MATH 121/6.0. |
| Environmental Studies (ENVS) **Medial, Minor** | • BIOL 103/3.0 or BIOL 111/3.0  
• ENSC103/3.0  
• GPHY 101/3.0  
• GPHY 102/3.0 (Minor only needs 102)  
• GEOL 104/3.0 or GEOL 106/3.0 or GEOL 107/3.0  
**Note:** For a Medial in Environmental Studies choose 3.0 units from Math or Statistics or Chemistry. |
| Film & Media (FILM) **Major, Medial, Minor** | • FILM 110/6.0 or  
• FILM 104/3.0 and BISC 100/3.0 (if studying at the Bader International Study Centre) |
| French Studies (FREN) **Major, Medial, Minor** | • FREN 150/6.0 |
| Gender Studies (GNDs) **Major, Medial, Minor** | • GNDS 120/3.0  
• GNDS 125/3.0 or  
• GNDS215/3.0 and BISC 101/3.0 (if studying at the Bader International Study Centre) |
<table>
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<tr>
<th>Desired Plan</th>
<th>Recommended Courses</th>
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<tbody>
<tr>
<td>Geography (GPHY) (Arts) Major, Medial, Minor</td>
<td>• GPHY 101/3.0 and GPHY 102/3.0 or</td>
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<td>• GPHY102/3.0 and BISC 100/3.0 (<em>if studying at the Bader International Study Centre</em>)</td>
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<tr>
<td>Geography (GPHY) (Science) Major, Minor</td>
<td>• GPHY 101/3.0 and GPHY 102/3.0 or</td>
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<td>• GPHY102/3.0 and BISC 100/3.0 (<em>if studying at the Bader International Study Centre</em>)</td>
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<td>• 12.0 units (for Major Plan) or 6.0 units (for Minor Plan) from CHEM 112/6.0; (MATH 110/6.0 or 111/6.0); (MATH 121/6.0 or 126/6.0); (PHYS 104/6.0 or 106/6.0 or 117/6.0)</td>
</tr>
<tr>
<td>Geology (GEOL) Specialization, Major, Minor</td>
<td>• GEOL 104/3.0</td>
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<td>• GEOL 107/3.0</td>
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<td>• CHEM 112/6.0</td>
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<td>• MATH 121/6.0</td>
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<td>• PHYS 106/6.0 or PHYS 117/6.0</td>
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<td>• For Specialization choose 6.0 from BIOL 102/3.0, BIOL 103/3.0, BIOL 110/3.0, BIOL 111/3.0; MATH 111/6.0; MATH 110/6.0; MATH 112/3.0</td>
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<td><strong>Note:</strong> Minor (Science) Plans do not require both CHEM and PHYS– choose 6.0 from CHEM 112 or PHYS 106 or PHYS 117</td>
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<td><strong>Note:</strong> Minor (Arts) Plans Instead of CHEM and MATH and PHYS choose 6.0 from CHEM 112 or MATH 121 or PHYS 106 or PHYS 117</td>
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<tr>
<td>German Studies (GMST) Medial, Minor</td>
<td>• GRMN 101/3.0 and GRMN 102/3.0 or</td>
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<td>• GRMN 201/3.0 and GRMN 202/3.0</td>
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<td><strong>Note:</strong> You will have the opportunity during the first two weeks of classes to change your registration from one course to the other if it turns out you are at the wrong level.</td>
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<tr>
<td>Global Development Studies (DEVS) Major, Medial, Minor</td>
<td>• DEVS 100/6.0</td>
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<td>• 6.0 units in a language (for the Major Plan) or 3.0 units in a language (for the Medial Plan)</td>
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<tr>
<td>Health Studies (HLTH) Major, Medial, Minor</td>
<td>• HLTH 101/3.0</td>
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<td>• HLTH 102/3.0</td>
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<td></td>
<td>• PSYC 100/6.0</td>
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<tr>
<td>Hispanic Studies (HISP) Major, Medial, Minor</td>
<td>• SPAN 111/3.0 and SPAN 112/3.0 or</td>
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<td>• SPAN 204/3.0 and SPAN 205/3.0</td>
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<td><strong>Note:</strong> You will have the opportunity during the first two weeks of classes to change your registration from one course to the other if it turns out you are at the wrong level.</td>
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<tr>
<td>History (HIST) Major, Medial, Minor</td>
<td>Choose <strong>ONE</strong> of:</td>
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<td>• HIST 121/6.0</td>
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<td>• HIST 122/6.0</td>
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<td>• HIST 124/6.0</td>
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<td>• BISC 100/3.0 and BISC 101/3.0 (<strong>if studying at the Bader International Study Centre</strong>)</td>
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<td>Desired Plan</td>
<td>Recommended Courses</td>
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<tr>
<td><strong>Italian (ITLN) Minor</strong></td>
<td>• ITLN 111/3.0 and ITLN 112/3.0 or&lt;br&gt;• ITLN 204/3.0 and ITLN 205/3.0&lt;br&gt;Note: You will have the opportunity during the first two weeks of classes to change your registration from one course to the other if it turns out you are at the wrong level.</td>
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<tr>
<td><strong>Indigenous Studies Minor</strong></td>
<td>• No recommended first-year courses</td>
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<tr>
<td><strong>Jewish Studies (JWST) Minor</strong></td>
<td>• No recommended first-year courses</td>
</tr>
<tr>
<td><strong>Kinesiology (KINE) Specialization</strong></td>
<td>• BIOL 102/3.0&lt;br&gt;• BIOL 103/3.0&lt;br&gt;• HLTH 101/3.0&lt;br&gt;• KNPE 125/3.0&lt;br&gt;• KNPE 153/3.0&lt;br&gt;• KNPE 167/3.0&lt;br&gt;• PSYC 100/6.0</td>
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<tr>
<td><strong>Life Sciences (LISC) Specialization, Major, Minor</strong></td>
<td>• BIOL 102/3.0&lt;br&gt;• BIOL 103/3.0&lt;br&gt;• CHEM 112/6.0&lt;br&gt;• MATH 120/6.0 or 121/6.0 (required for Major and Specialization not Minor)&lt;br&gt;• PHYS 106/6.0 or PHYS 117/6.0 (required for Major and Specialization not Minor)&lt;br&gt;Note: You need to have completed at least 27.0 units by the end of Year 1 to be eligible for the Major or Specialization. Note: Students wishing to take upper year PSYC courses should take PSYC 100</td>
</tr>
<tr>
<td><strong>Languages, Literatures and Cultures (LLCU) Major</strong></td>
<td>• LLCU 110/3.0 and 111/3.0</td>
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<tr>
<td><strong>Linguistics (LING) Major, Medial, Minor</strong></td>
<td>• LING 100/6.0</td>
</tr>
<tr>
<td><strong>Mathematics (MATH ARTS: Major, Medial, Minor SCIENCE: Major, Minor</strong></td>
<td>• MATH 110/6.0&lt;br&gt;• MATH 120/6.0&lt;br&gt;Note: Students in a MATH Minor Plan (Arts or Science) may take MATH 111 instead of MATH 110 and MATH 121 instead of MATH 120.</td>
</tr>
<tr>
<td><strong>Mathematical Physics (MAPH) Specialization</strong></td>
<td>• MATH 110/6.0&lt;br&gt;• MATH 120/6.0&lt;br&gt;• PHYS 104/6.0 or PHYS 106/6.0</td>
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<tr>
<td><strong>Medieval Studies (MDVL) Minor</strong></td>
<td>• ENGL 100/6.0 or&lt;br&gt;• HIST 121/6.0 or HIST 122/6.0&lt;br&gt;Note: You may also consider a First Year ARTH course</td>
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<td>Desired Plan</td>
<td>Recommended Courses</td>
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<tr>
<td><strong>Music – BMUS Specialization</strong></td>
<td>• MUTH 110 and MUTH 111  &lt;br&gt; • Our ensemble course codes have changed (except for MUTH 160) and are as follows:&lt;br&gt;  <strong>Note:</strong> Students who meet higher standards of performing ability may audition in September for acceptance into the “double credit” Applied Study courses MUSC 120/6.0 and MUSC 125/6.0 in lieu of MUSC 121/6.0. If you audition successfully, you may change your registration at that time. In addition to their private lessons, students in these advanced courses perform a public recital at the end of first year.&lt;br&gt;  • One of: MUSC 180/3.0; MUSC 181/3.0; MUSC 183/3.0; MUSC 185/3.0; MUSC 187/3.0; MUSC 188/3.0, 189/3.0  &lt;br&gt; (Music Education courses: choose the course related to an instrument which is <em>not</em> your primary performance instrument)&lt;br&gt;  • MUSC 112 Topic 1 – Jazz Ensemble  &lt;br&gt;  • MUSC 112 Topic 2 – Polyhymnia  &lt;br&gt;  • MUSC 112 Topic 4 – Flute Choir  &lt;br&gt;  • MUSC 115 Topic 1 – Choral Ensemble  &lt;br&gt;  • MUSC 115 Topic 2 – Symphony Orchestra  &lt;br&gt;  • MUSC 115 Topic 3 – Wind Ensemble  &lt;br&gt;  • MUTH 160/1.5  &lt;br&gt; <strong>Note:</strong> Over the course of your degree, you must take at least one year of choral ensemble (MUSC 160/1.5) and therefore it might be advisable to select this in first year.</td>
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<tr>
<td><strong>Music (MUSC) Major, Medial, Minor</strong></td>
<td>To pursue a Major or Medial Plan in MUSC, in first year you should take:&lt;br&gt;  • MUTH 110 or MUTH 111 (MUTH courses do not need Royal Conservatory Advanced Rudiments)  &lt;br&gt;  • MUSC 191/6.0 or MUSC 104  &lt;br&gt; <strong>Note:</strong> MUSC 191/6.0 requires that, as a prerequisite, you hold the Royal Conservatory of Music Advanced Rudiments with first class honours standing or equivalent. Students who do not hold the RCM Advanced Rudiments qualification or equivalent should take MUSC 104/3.0 in their first year.  &lt;br&gt; To pursue a Minor Plan in MUSC, in first year you should take:&lt;br&gt;  • MUTH 110/3.0 or MUTH 111/3.0  &lt;br&gt;  • MUSC 104  &lt;br&gt;  • One of MUSC 171/3.0, MUSC 289/3.0</td>
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<tr>
<td><strong>Physical and Health Education (BPHEH) Specialization</strong></td>
<td>• HLTH 101/3.0  &lt;br&gt;  • KNPE 125/3.0  &lt;br&gt;  • KNPE 153/3.0  &lt;br&gt;  • KNPE 167/3.0  &lt;br&gt;  • PACT 100/3.0  &lt;br&gt;  • PSYC 100/6.0</td>
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<td>Desired Plan</td>
<td>Recommended Courses</td>
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<tr>
<td>Philosophy (PHIL) Major, Medial, Minor</td>
<td>• PHIL 111/6.0 or PHIL 115/6.0</td>
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</table>
| Philosophy (PHPE) Sub-plan in Politics, Philosophy and Economics Specialization | • 6.0 units from PHIL at the 100-level  
• ECON 110/6.0 or ECON 111/3.0 and ECON 112/3.0  
• POLS110/6.0                                                                                                                                 |
| Physics (PHYS) Specialization, Major, Minor | • MATH 110/6.0 or MATH 111/6.0  
• MATH 120/6.0 or MATH 121/6.0  
• PHYS 104/6.0 or PHYS 106/6.0  
• CHEM 112/6.0 (for Specialization Physics Plan)                                                                                                                                 |
| Political Studies (POLS) Major, Medial, Minor | • POLS 110/6.0                                                                                                                                 |
| Political Studies (POPE) Sub-plan in Politics, Philosophy and Economics Specialization | • POLS110/6.0  
• 6.0 units from PHIL at the 100-level  
• ECON 110/6.0 or ECON 111/3.0 and ECON 112/3.0                                                                                                                                 |
| Psychology (PSYC) (Arts) Major, Medial, Minor | • PSYC 100/6.0                                                                                                                                 |
| Psychology (PSYC) (Science) Major          | • PSYC 100/6.0  
• 12.0 units from BIOL 102/3.0 and BIOL 103/3.0, CHEM 112/6.0, PHYS 104/6.0 or PHYS 106/6.0 or PHYS 117/6.0, CISC 121/3.0 and CISC 124/3.0, or any 100-level MATH  
*Note: The 12.0 units of supporting science credits required for this Plan may also be taken after first year.*                                                                                                                                 |
| Religious Studies (RELS) Major, Medial, Minor | • RELS 131/6.0 or RELS 161/6.0                                                                                                                                 |
| Sociology (SOCY) Major, Medial, Minor       | • SOCY 122/6.0 or  
• BISC 100/3.0 and BISC 101/3.0 *(If studying at the Bader International Centre)*                                                                                                                                 |
| Software Design (SODE) Specialization       | • CISC 121/3.0 (Fall)  
• CISC 124/3.0 (Winter)  
• CISC 102/3.0  
• MATH 120/6.0 or MATH 121/6.0  
• MATH 111/6.0 or MATH 112/3.0  
*Note: Students without previous programming experience should replace CISC 121/124 with CISC 101 in the Fall Term and CISC 121 in the Winter Term then take CISC 124 in the Fall Term of second year.*                                                                                                                                 |
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<th>Desired Plan</th>
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<tr>
<td><strong>Spanish and Latin American Studies (SLAS) Minor</strong></td>
<td>• SPAN 111/3.0 and SPAN 112/3.0 or&lt;br&gt;• SPAN 204/3.0 and SPAN 205/3.0&lt;br&gt;Note: You will have the opportunity during the first two weeks of classes to change your registration from one course to the other if it turns out you are at the wrong level.</td>
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<tr>
<td><strong>Stage and Screen (STSC) Specialization</strong></td>
<td>• DRAM 100/6.0&lt;br&gt;• FILM 110/6.0 or&lt;br&gt;• BISC100/3.0 and BISC 101/3.0 and FILM 104/3.0 (if studying at the Bader International Study Centre)</td>
</tr>
<tr>
<td><strong>Statistics (STAT) ARTS: Major, Medial, Minor, SCIENCE: Major, Minor</strong></td>
<td>• MATH 110/6.0&lt;br&gt;• MATH 120/6.0&lt;br&gt;Note: Students interested in statistics should not take STAT 263/3.0.</td>
</tr>
<tr>
<td><strong>World Languages (LANG) Minor</strong></td>
<td>• At least 6.0 and up to 12.0 units in language courses&lt;br&gt;Note: Any language offered at Queen’s, other than English, is acceptable. Note: To obtain a Minor in World Language Studies, you must study at least two languages over the course of your degree, and one language must be studied at the 300-level. Therefore, to successfully complete this Plan, you should consider choosing to study in first year one language in which you already have some experience.</td>
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</tbody>
</table>

For a list of all course descriptions, visit our online Calendar
First-year Mathematics, Physics & Computing:

**MATHEMATICS**
The Department of Mathematics and Statistics offers a number of first-year courses. Your choice of course depends on your background, interests, and what subject you may wish to study in upper years.

**MATH 11#-Series: Linear Algebra**

- **MATH 110/6.0**
  MATH 110/6.0 is an advanced course in linear algebra, primarily designed for those students who might take Mathematics or Statistics courses in second year. Students with an interest or strong background in mathematics are encouraged to take this course.
  Recommended prerequisite: At least one 4U mathematics course.

- **MATH 111/6.0**
  MATH 111/6.0 is a course in linear algebra, primarily designed for students who intend to pursue something other than mathematics or statistics. Students who are planning to pursue a Plan in Physics in upper years should take MATH 110/6.0 or this course. Students intending to pursue studies in Chemistry may wish to consider this course in lieu of MATH 112/3.0. Students who are undecided as to what Plan they will pursue in upper years at this time should choose this course.
  Recommended prerequisite: At least one 4U mathematics course.

- **MATH 112/3.0**
  MATH 112/3.0 is an introductory course in linear algebra. Students intending to pursue a Plan in Chemistry or Computing should take a full-year linear algebra course or this course. It may also be of particular interest to students in Economics, Geography, Political Studies, Psychology, or Sociology, as it will help prepare students for the second-year courses in statistics required in these Plans.
  Recommended prerequisite: At least one 4U mathematics course.
MATH 12#-Series: Calculus

- **MATH 120/6.0**
  MATH 120/6.0 is an advanced course in calculus, primarily designed for those students who might take mathematics or statistics courses in second year. Students with an interest or strong background in mathematics or physics should take this course. Recommended prerequisite: MHF4U and MCV4U or 4U AFIC, or permission of the Department.

- **MATH 121/6.0**
  MATH 121/6.0 is a course in calculus, primarily designed for students who intend to pursue a Plan in Biochemistry, Biology, Life Sciences, Chemistry, Geology or Environmental Science. Students who are planning to pursue a Plan in Physics in upper years can take either this course of MATH 120/6.0. Students who are undecided as to what Plan they will pursue in upper years and have taken calculus at the Grade 12 level should choose this course. Students intending to pursue a Plan in Economics may wish to consider this course instead of MATH 126/6.0 if they have taken calculus at the Grade 12 level. Recommended prerequisite: MHF4U and MCV4U or 4U AFIC, or permission of the Department.

- **MATH 123/3.0 and MATH 124/3.0**
  These are a special pair of courses in Calculus, designed for students who hold advanced standing (IB, AP or GCSE-level) in differential calculus. The combination of the two is equivalent to MATH 121/6.0 for all academic purposes. Students who are eligible will receive transfer credit for MATH 123/3.0 and may register for MATH 124/3.0 (Integral Calculus) for the Winter Term. They will join the MATH 121/6.0 classroom in January and continue their integral calculus training.

- **MATH 126/6.0**
  MATH 126/6.0 is an introductory course in calculus, primarily designed for students in Arts who have not previously taken calculus at the Grade 12 level. Science students should not register in this course. Students who are planning to pursue a Plan in Economics should take MATH 121/6.0 or this course. It may also be of particular interest to students in Geography, Political Studies, Psychology, or Sociology, as it will help prepare students for the second-year courses in statistics required in these Plans. **NOTE** Primarily intended for students in the BAH program. Students in the BSCH, BCMPH and BCOM programs should not enrol in this course.
PHYSICS
The Department of Physics offers a number of first-year courses. Your choice of course depends on your background, interests, and what subject you may wish to study in upper years.

PHYS ASTR and P-level
- **ASTR 101/3.0, ASTR 102/3.0 and PHYS P20/3.0**
  ASTR 101/3.0, ASTR 102/3.0 and PHYS P20/3.0 describe issues in Physics, Astronomy and some of the major figures of 20th century physics. They are intended primarily as electives for upper-year Arts or Science students. These courses may be used only towards a Minor (Arts) Plan in Physics, and not in any other Physics or Astrophysics Plan (except as an elective). Note that for students interested in pursuing a Plan in Astrophysics (e.g. Astronomy), they should take PHYS 104/6.0 in their first year.

PHYS 1## Series
- **PHYS 104/6.0**
  PHYS 104/6.0 is an advanced course in fundamental physics, primarily designed for those students who intend to pursue a Physics or Astrophysics Plan. Even if they are not intending to study Physics at an upper-year level, students with a strong interest or background in physics (particularly those planning to study Mathematics and Statistics, Chemistry, Geology or Computing) are encouraged to consider this course. Any student intending to pursue a Plan in Physics or Astrophysics should choose this course.
  Prerequisite: 4U Physics is required.

- **PHYS 106/6.0**
  PHYS 106/6.0 is a course in fundamental physics. Students who intend to pursue a Plan in Mathematics, Statistics, Chemistry, Computing, or Geology in upper-years should take this course along with MATH 120/6.0 or MATH 121/6.0. Students who are intending to study any of Biology, Biochemistry, Life Sciences, or Environmental Science and have a Grade 12 Physics and Math background, are encouraged to consider this course instead of PHYS 117/6.0. Students who are undecided as to what Plan they will pursue in upper years at this time should choose this course. Please note that Grade 12 Math and Physics are pre-requisites for this course.
  Prerequisite: 4U Physics is required.

- **PHYS 117/6.0**
  PHYS 117/6.0 is an introductory course in physics. Students who intend to pursue a Plan in Biology, Biochemistry, Life Sciences or Environmental Science in upper-years should take this course, or PHYS 106/6.0. Students who are undecided as to what Plan they will pursue in upper years at this time should choose PHYS 106/6.0.
  **Students without Grade 11 or 12U Physics must have Grade 12U Math to take this course, and must be prepared to work harder to keep up with the course work.**
  Prerequisite: 4U Physics is recommended.
COMPUTING
The School of Computing offers a number of first-year courses. Your choice of course depends on your background, interests, and what subject you may wish to study in upper years. Note: All courses may not be offered each year.

CISC P81/3.0
CISC P81/3.0 is used as an elective course by upper-year students who are not currently, and have not previously, studied Computing.

CISC 101/3.0
CISC 101/3.0 introduces students to the elements of computer science. Any student who has been admitted to a Bachelor of Computing Program, or who may wish to pursue upper-year courses in computing at a later date, but who does not have any previous programming experience, should take this course. It is also a good elective choice for any student in Arts and Science. Also see CISC 121/3.0 and CISC 124/3.0.

CISC 102/3.0
This course is required for all degree Plans in the School of Computing except for Computing and Mathematics (COMA). It provides an introduction to mathematical discourse and proof methods. Students will also study sets, functions, sequences, and relations in addition to properties of the integers, equivalence relations, linear and partial orderings. This course meets the first half of the Linear Algebra requirements. Students are to take MATH 112/3.0 to complete the second and final half of the requirement. An alternative to MATH 112/3.0 is MATH 111/6.0 which will satisfy the requirement and provide 3.0 elective units. Students need to have taken or be registered in CISC 121/3.0 to be enrolled in this course.

CISC 110/3.0
CISC 110/3.0 is an introduction to programming concepts in the context of visual arts and/or music. This course assumes no previous programming experience. It is an alternative to taking CISC 101/3.0 for students who have been admitted to a Bachelor of Computing Program, or who may wish to pursue upper-year courses in computing at a later date, but who do not have any previous programming experience. It is also a good elective choice for any student in Arts and Science, particularly students who wish to pursue a discipline in one of the creative arts. This course is a recommended elective for students wishing to pursue Computing and the Creative Arts. Also see CISC 121/3.0 and CISC 124/3.0.

CISC 121/3.0 and CISC 124/3.0
CISC 121/3.0 and CISC 124/3.0 are the first year courses that introduce students to the study of Computing at the University level. Some previous programming experience is assumed in CISC 121/3.0, which is the prerequisite for CISC 124/3.0. They are also suitable electives for any Arts or Science student. Students who have no previous programming experience but who have been admitted to Computing or who would like take further courses in Computing at an upper-year level should take CISC 101/3.0 or CISC 110/3.0 in the Fall Term, then take CISC 121/3.0 in the Winter term and CISC 124/3.0 the following Fall term. See recommended pre-requisite on page 22.

REGISTRATION: CISC 121/3.0 assumes some programming experience (such as high-school level programming or CISC 101/3.0 or CISC 110/3.0). Note that CISC 121/3.0 is offered in both the Fall, Winter and Summer Terms, and is a prerequisite for CISC 124/3.0.
### COURSES AVAILABLE to 1st-Year Students 2018-19

For detailed course descriptions click here:

#### ANISHINAABEMOWIN (ANSH)
- 101: Beginning Anishinaabe Language & Culture I [F]
- 102: Beginning Anishinaabe Language & Culture II [W]

#### ARABIC (ARAB)
- 100: Intro to Arabic (Modern Standard) † [FY]
- 200: Intermediate Modern Standard Arabic † [FY]

#### ART HISTORY (ARTH)
- 120: Art in the West from Antiquity to Modernity [FY]

#### BIOLOGY (BIOL)
- 102: Intro Biology of Cells* [F]
- 103: Intro Biology of Organisms* [W]
- 111: Ecology and the Environment [W]

#### CHEMISTRY (CHEM)
- 112: General Chemistry* [FY]

#### CHINESE (CHIN)
- 100: Intro Mandarin Chinese I † [FY]

#### CLASSICAL STUDIES AND ARCHAEOLOGY (CLST)
- 102: Intro to Greek Civilization [F]
- 103: Intro to Roman Civilization [W]
- 130: Intro to Archaeology I. Great Discoveries in Archaeology [F]
- 131: Intro to Archaeology II. Methods and Analysis [W]

#### CLASSICAL GREEK (GREK)
- 112: Intro Greek [FY]

#### COGNITIVE SCIENCE (COGS)
- 100: Intro to Cognitive Science [F]

#### COMPUTING (CISC)
- 101: Elements of Computing Science*** [F / W]
- 102: Discrete Mathematics for Computing*** [F / W]
- 110: Creative Computing*** [F]
- 121: Intro to Computing Science I*** [F / W]
- 124: Intro to Computing Science II*** [F / W]
- 151: Elements of Computing with Data Analytics*** [W]

#### DRAMA (DRAM)
- 100: Intro to the Theatre [FY]

#### ECONOMICS (ECON)
- 110: Principles of Economics [FY]
- 111: Intro Microeconomics [F]
- 112: Intro Macroeconomics [W]

#### ENGLISH (ENGL)
- 100: Intro to Literary Study [FY]

#### ENVIRONMENTAL SCIENCE/STUDIES (ENSC)
- 103: Environment and Sustainability [F]

#### FILM AND MEDIA (FILM)
- 110: Film, Culture and Communication ** [FY]

#### FRENCH (FREN)
- 150: Français Intermédiaire † [FY]

#### GENDER STUDIES (GNDS)
- 120: Women, Gender, Difference [F]
- 125: Gender, Race and Popular culture [W]

#### GEOGRAPHY & PLANNING (GPHY)
- 101: Human Geography [F / W]
- 102: Earth System Science [W]

#### GEOLOGY (GEOL)
- 104: The Dynamic Earth [F / W]
- 107: History of Life [F]

#### GERMAN (GRMN)
- 101: Beginner’s German [F / W]
- 102: Beginner’s German I [W]

#### GLOBAL DEVELOPMENT STUDIES (DEVS)
- 100: Canada and the “Third World” ** [FY]

#### HEALTH STUDIES (HLTH)
- 101: Social Determinants of Health ** [F]
- 102: Physical Determinants of Health ** [W]

#### HEBREW (HEBR)
- 190: Introduction to Modern Hebrew † [FY]
- 192: Introductory Biblical Hebrew [F]
- 193: Classical Hebrew Fundamentals [W]

#### HISTORY (HIST)
- 121: Intellectual Origins of the Contemporary West [FY]
- 122: The Making of the Modern World [FY]
- 124: Canada in the World [FY]
INUKTITUT (INUJ)
101: Beginning Inuktitut Language and Culture I [F]
102: Beginning Inuktitut Language and Culture II [W]

ITALIAN (ITLN)
111: Beginning Italian I [F / W]
112: Beginning Italian II [W]

JAPANESE (JAPN)
100: Introductory Japanese I + [FY]

LANGUAGES, LITERATURES & CULTURES (LLCU)
LLCU111: Introduction to Cultures [F]

LATIN (LATN)
110: Intro Latin [FY]

LINGUISTICS (LING)
100: Intro to Linguistics ** [FY]

MATHEMATICS (MATH)
120: Differential and Integral Calculus [FY]
121: Differential and Integral Calculus [FY]
124: Differential and Integral Calculus II [W]
126: Differential and Integral Calculus ** [FY]
110: Linear Algebra [FY]
111: Linear Algebra [FY]
112: Linear Algebra [W]

MOHAWK (MOHK)
101: Beginning Mohawk Language and Culture I [F]
102: Beginning Mohawk Language and Culture II [W]

MUSIC (MUSC)
100: Small Ensemble (topics: Unspecified Chamber Ensemble, Keyboard Accompaniment) (1.5) + [FY]
112: Medium Ensemble (topics: Jazz Ensemble, Polyhymnia, Flute Choir) (1.5) + [FY]
115: Large Ensemble (topic: Choral Ensemble, Symphony Orchestra, Wind Ensemble) (1.5) + [FY]
104: Introduction to Music Fundamentals [F/W]
114: Teaching Music to Children [F]
124: Applied Music+ [FY]
151: Vocal Composition [W]
156: Digital Recording, Editing, and Mixing [W]
171: Social History of Popular Music [F]
191: Theory and Analysis I [FY]
255: Electroacoustic Composition [FY]
289: World Musics [W]

MUSIC/THEATRE (MUTH)
110: The Republic to Rationalism: History, Arts, & Performance I [F]
111: Listening to Revolutions: History, Arts & Performance II [W]
160: Music Theatre Ensemble: Opera Ensemble (1.5) [FY]

PHILOSOPHY (PHIL)
111: What is Philosophy? [FY]
115: Fundamental Questions [FY]
151: Great Works of Philosophy [F]
153: The State and the Citizen [W]
157: Moral Issues [F]

PHYSICS (PHYS)
104: Fundamental Physics [FY]
106: General Physics [FY]
117: Intro Physics* [FY]

POLITICAL STUDIES (POLS)
110: Intro to Politics and Government [FY]

PORTUGUESE (PORT)
103: Beginning Portuguese and Culture I [F]
104: Beginning Portuguese and Culture II [W]

PSYCHOLOGY (PSYC)
100: Principles of Psychology [FY]

RELIGIOUS STUDIES (RELS)
131: World Religions/Religious Worlds [FY]
162: Religion in the News [F]
163: Religion and Popular Culture [W]

SOCIOLOGY (SOCY)
122: Intro to Sociology [FY]

SPANISH (SPAN)
111: Beginning Spanish I [F / W]
112: Beginning Spanish II [W]

Students admitted to direct entry programs will be pre-enrolled in the following courses:
Bachelor of Music: MUSC121; 127; 129; 191: MUTH110, 111
Kinesiology: BIOL102/103; HLTH101; KNPE125; 153; 167; PSYC100
Bachelor of Fine Art: ARTF127; 128; ARTH120

Electives
The courses listed below are used primarily as electives and do not lead to Honours degree plans:

ASTR101: Astronomy I: The Solar System
ASTR102: Astronomy II: Stars, Galaxies, and the Universe
BIOL110: Human Genetics and Evolution
CISC201: Computers: Applications and Implications
CISC151: Elements of Computing with Data Analytics
EMPR100: Workplace Communication and Interpersonal Skills
EMPR110: Introduction to Employment Relations
ENIN140: Media and Design Thinking
GEOL102: Gemstones: Their Art, History and Science
GEOL106: Environmental Geology and Natural Hazards
GPHY105: The Digital Earth: Geospatial Data and Earth Observation
HIST240: Issues in History: Introduction to Biblical Hebrew
MICR121: Microbiology for Nursing Students
MUSC102: Western Music: Napoleon to 9/11
PHAR100: Introductory Pharmacology
POLSc101: Contemporary Issues in Politics
Courses:
First Year ARTS
Jake wants to be a History Major.

After reviewing the list of *Recommended Courses by Plan* and reading the *Course Descriptions*, Jake knows he can take either HIST 121, 122, or 124 this year, to satisfy the first-year requirement in order to go on into the plan. Jake chooses HIST 122. Jake wants to keep the possibility of a Plan in English open, and he sees in the *Calendar* that ENGL 100 would be required so adds that. The possibility of applying to the Faculty of Education (after his Bachelor’s degree) is an option Jake wants to keep open and in preparation has been told that Psyc 100 is a requirement. Jake is also interested in sports and healthy living, and after speaking to a few people at SOAR he decides to take HLTH 101 and 102. Finally, as his last choice, Jake decides to take gender studies in one term and a geology class in the other term.

Jake’s Course Choices:
- History 122 (FW)
- English 100 (FW)
- Psychology 100 (FW)
- Gender Studies 120 (F)
- Health 101 (F)
- Health 102 (W)
- Geology 106 (W)

**Building Jake’s Timetable:**

Jake plans to enrol in: HIST 122, ENGL 100, PSYC 100, HLTH 101, & HLTH 102, GNDS120 and GEOL106.

Jake begins by adding the courses to his Blank Timetable.

* Single lecture courses only have one lecture time and are only offered in one time slot, therefore they should be scheduled first in Jake’s timetable. Courses that have multiple lecture sections are offered in many different time slots and can be scheduled to work around other courses much more easily.

* Jake searches each of his classes on SOLUS and notes the times for each lecture on his timetable. Then Jake looks to see if any of his classes require tutorials and add them to his timetable.

* Jakes adds his courses to his Shopping Cart on SOLUS.

* Once all of the courses are in the Shopping Cart, the "Validate" function will confirm that all course requirements and prerequisites have been met. Once your Enrollment Appointment arrives, you will be able to add the courses as long as there is space available in the course.
**Jake’s Timetable**

*Note: These are not the actual course times; they are just being used for example purposes.*

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<td>HLTH 101 (fall only)</td>
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<td>GNDS 120 (fall only)</td>
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<td>GNDS 120 (fall only)</td>
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<td>PSYC 100</td>
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<td>HIST 122</td>
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<td>3:30</td>
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<td>PSYC tutorial</td>
<td>HIST 122</td>
<td>HIST seminar</td>
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<td>HLTH 101 (fall only)</td>
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For a list of all course descriptions, visit our online [Calendar](#)
Lydia is interested in med school or graduate studies / research in the sciences. Her favourite science in high school was Biology – because of this she is considering a major in Biology. After looking at the **Recommended Courses by Plan**, she sees that the Degree Plan for the Biology Major she should take the following courses to get into the program: BIOL 102, BIOL 103, MATH 121 or equivalent, and CHEM 112. It is highly recommended to take PHYS 117, PHYS 106, or PHYS 104, but not required for Biology. Physics would be required if Lydia were to switch into a Chemistry, Geology or a Life Science Plan, so she decides to take PHYS 117 to keep her options open. Lastly, Lydia refers to the Courses Available to First Year Students and reading **Course Descriptions**, she decides to take PSYC100 as her elective.

**Lydia’s Course Choices:**

- Math 121
- Physics 117
- Biology 102 & 103
- Psychology 100
- Chemistry 112

**BUILDING LYDIA’ TIMETABLE:**

Lydia plans to enrol in MATH 121, BIOL 101 & 103, CHEM 112, PHYS 117, PSYC 100. She knows that because she is in the Sciences, she will need to choose lectures, labs and tutorials and figure out how to make them all fit together. Since creating a science timetable can be complicated, the Arts and Science office has created three timetables for Lydia to choose from. Because she is planning to enrol in BIOL102/102; CHEM112; MATH121, PHYS117 and PSYC100 she selects Timetable A. Now that she knows when each of her lectures will be held, she can choose which lab and tutorial sections she wants. Then she can add in her elective. Lydia knows that the timetable she has chosen offers lectures at West Campus, so she plans her schedule to allow for a little more time between classes.

*Lydia adds her classes to her Shopping Cart on SOLUS.*

Once all of the courses are in her Shopping Cart, Lydia clicks the "Validate" button to confirm that all course requirements and prerequisites have been met. Once her Enrollment Appointment arrives, she can complete her enrolment in her classes.
LYDIA’S TIMETABLE

**NOTE:** These are not the actual course times; they are just being used for example purposes.

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For a list of all course descriptions, visit our online [Calendar](#)
Building your first-year SCIENCE timetable

We know that building your science timetable can seem a bit overwhelming. There are so many lectures and labs to choose from and sometimes it is hard to know which courses you should take and how to fit them all into your timetable. To help you with this, we have created three first-year science timetables for you to choose from.

In order to decide which timetable is right for you, you need to first decide which science courses you want to take based on the suggested courses listed for the Plans that you think you may want to choose as your Specialization, Major or Minor Plans.

Once you know which courses you want to take, you can choose your schedule from one of the three science schedules that we have created based on the criteria below:

i) Morning Lectures/Mid-Day and Afternoon Labs – recommended for students taking 3 or 4 of BIOL 102/103, CHEM 112, MATH 121, PHYS 117, PSYC100. The classes in this timetable are scheduled in Duncan Macarthur Hall at West Campus.
   **NOTE:** it is a 15-20 minute walk from West Campus to Main Campus. Keep that in mind when choosing your elective!

ii) Mid-Day Lectures/Morning and Afternoon Labs – recommended for students wishing to take any of MATH 110, MATH 120, PHYS 104, or PHYS 106

iii) Afternoon Lectures/Morning Labs – recommended for students taking 2 or fewer of BIOL 102/103, CHEM 112, MATH 121, PHYS 117

You will find all three timetables published on our website beginning June 18.

Visit [www.QUArcsci.com/1styear](http://www.QUArcsci.com/1styear) to see the first year science timetables that we have created for you.
# Timetable Template

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Frequently Asked Questions

I have been admitted to Arts and want to take Science courses, can I do this?
Yes! Given that we are an integrated faculty, students may choose from a wide variety of Arts and Science courses. However, we also need to ensure that the students who are intending to pursue a major in a specific discipline have priority access to the courses that they need. For this reason, we reserve seats in some classes during the first two weeks of registration. This ensures that Arts students receive priority access to Arts courses and that Science students receive priority access to Science courses. Beginning at 12:00 pm (noon) EST on July 23, reserves on first year courses will be removed and you may then add the courses you were unable to when your enrolment appointment time began.

What if I want to switch to Science from Arts, can I do this?
It is possible, but there are some challenges.
Access to Plans and progression within Plans. Most Plans within Arts and Science will have at least one first year required course. In order to be eligible to request a specific Plan (eg. BIOL), students normally need to achieve a minimum required grade in that first-year course. If, for some reason, you are not able to enrol in that first-year course, then you likely would not be eligible to apply for that Plan. Also, if you are not able to enrol in the full slate of first-year Science courses you would be behind in your studies and it could take you longer to complete your degree.
Preparation for Science courses. Students who are admitted to Science have completed specific high school science courses. These courses are pre-requisites for university science courses as they provide foundational content to support for university study in science. Students who do not have these pre-requisite courses frequently do not do well in university science courses since they are missing necessary foundational content. Since first-year marks are the determining factor for access to Plans, students are encouraged to make wise choices with their course selection and allow themselves as many options for Plans to study as possible through the selection of their first-year course.

What if I want to switch to Computing from Arts or Science, can I do this?
It is possible, but you may find it difficult to complete the degree within the four year timeframe. A full-time Computing student normally takes CISC 121/3.0, CISC 124/3.0 as well as 12.0 units in MATH during first year and an Arts or Science student may not have had access to all those courses.

How many courses do students in Arts & Science take?
A full-time student normally takes five courses (30.0 units) during the Fall-Winter session. Students in BMUS, BAH/BeD and BSCH/Bed have a load higher than 30.0 units. Students may carry fewer than 30.0 units, and as many as 36.0 units, without special permission.

How many courses can I take from another Faculty (i.e. Commerce or Law)?
Students are permitted to take a maximum of 6.0 units from courses offered by other Faculties and Schools which can be counted towards the Program and/or Plan requirements of any degree in the Faculty of Arts & Science. However, first year students are not normally permitted to take courses from other faculties until their second year.

What is the grading system at Queen's?
Please follow this link to the http://www.queensu.ca/artsci/students-at-queens/gpa-calculators
Who do I talk to about transfer credits? Advanced Placement (AP), International Baccalaureate (IB), A-Level, Cambridge Pre-U or French Baccalaureate credits? 
If the course was taken before you became a Queen’s student, you must speak to Undergraduate Admission in Gordon Hall about the possibility of retroactively transferring the credit. This includes AP, IB, A-level, Cambridge Pre-U and French Baccalaureate courses completed in high school. For more information please visit http://www.queensu.ca/admission/apply-high-school/transfer-credits.

How and when do I enrol in my classes? 
All students are given an Enrollment Appointment Time to begin enrolling in classes. You can view your Enrollment Appointment Time in SOLUS beginning July 9. Enrollment Appointment Times are randomly generated according to your level at the University. Enrollment Appointment Times cannot be changed. 
HINT: If you do not have access to a computer when your enrolment appointment time begins, you can call us once your appointment time begins and we can assist you. Or, you can have a friend or family member access SOLUS and enrol in your classes for you. Remember, your enrollment appointment time cannot be changed. When your Enrollment Appointment Time begins, access the SOLUS Student Centre to Finish Enrolling in your classes. If there is space available in the classes that you have selected you will be enrolled in those classes. You are not enrolled in your classes until you complete this step!

I am trying to enrol in a class but am getting an error message about the class being reserved? 
What does that mean? 
To ensure that first year students are able to access the courses they need for their degree program, we put “reserves” on some of our first year classes. If you try to add a class and get a “reserved” error message, don’t fret! Restrictions on first year classes will be lifted as of noon (EST) on July 23. If you can’t get into a class because of a reserve, try again on July 23.

NOTE: this only applies to First-Year Students enrolling in First-Year courses. It does not apply to upper year students.

I want to get into a class but it is full – What can I do? 
We know how disappointing it can be when this happens but here are a couple of suggestions. Most of our classes will be set up with wait lists. If the class is full, you can opt to go on the wait list. Details on wait lists is available at http://www.queensu.ca/artsci/students-at-queens/class-selection. If the class you want doesn’t have a wait list, or the wait list is full, keep trying. Students make lots of class changes throughout the registration period and it could happen that someone drops the class you want to add. Perseverance pays off!

Should I have backup course choices if classes are full? 
Yes, you should always consider backup choices during the course registration period, especially for elective courses as you are not guaranteed a spot in them. However, you are given more priority for courses that are required for your major and/or minor, so you should ensure that these courses do not have time conflicts. You can browse either the department websites or you can look through the Academic Calendar at this link to see what courses are available: http://www.queensu.ca/artsci/sites/default/files/courses_of_instruction.pdf.

Is there a deadline for enrolling in my classes? 
Yes! Registration closes on August 3 so make sure you are enrolled in all of your classes by this date.

What if I want to make changes after August 3? 
If you want to make changes to your classes you can access SOLUS beginning August 21 when Open Enrolment begins. At this time you can make changes to your classes if you need to. Be sure to pay attention to the deadline dates for adding and dropping classes.
How does your academic performance in first year (i.e., marks) affect a student’s ability to select a concentration/major going into second year?
A student’s mark in the required first-year course and/or cumulative Grade Point Average (GPA) are what determines access to Plans (concentrations or majors). Students should select required first-year courses that allow for access to as many Plans as a student may have interest in. Plans are selected at the end of first year (May).

Are there prerequisites for courses you want to take in later years?
Yes, most upper year courses have prerequisites in order to enroll in them. These prerequisites usually correspond with first year courses. Therefore, it is important to check the prerequisites for courses you are interested in before attempting to enroll in them. A list of all courses and their prerequisites can be found in the Academic Calendar, following this link:

What were the thresholds for each Plan last year?
The minimum thresholds for access to each Plan last year can be found at this link:
http://www.queensu.ca/artsci/students-at-queens/2nd-year
It is recommended that you read about Automatic and Pending categories as well as the Plan Selection process found at this link: http://www.queensu.ca/artsci/students-at-queens/2nd-year

What is special about first-year courses in Arts and Science at Queen’s?
At Queen’s we are transforming some of our largest first-year courses to ensure that every student has an engaging personal learning experience, no matter how big the course enrolment. An innovative course design known as blended learning is enabling us to go beyond the lecture format, which is traditional for large classes, and to focus more on a classroom experience where students work collaboratively in small groups and are engaged actively in their own learning.

What is a blended course?
In Arts and Science, “blended” means the thoughtful and purposeful combination of classroom learning and online learning. The specific design of each blended course is unique, but in general:

- students are guided through some fundamental content and concepts with readings and interactive online materials;
- classroom time is focused on small group activities and collaborative learning, where students apply and synthesize the concepts and theories they have learned;
- there are fewer total classroom hours (e.g. 2 per week instead of 3 per week).

For example, if you’re one of the 1800 students in PSYC 100, each week looks like this: complete preparatory work online, attend one lecture in a class of 450, and participate in one active, face-to-face learning lab together with your group of 6 students (in a class of 24 students).