**MATL Subject-Area Background Self-Assessment Grid:**

**30 credits related to Science and Technology**

Admission to the MATL program requires 30 credits of previous university level studies in a designated ‘teachable subject’ area (i.e. a subject which is taught in the secondary school classroom). Please fill in the grid below, listing courses from your previous studies which, in your estimation, fit the categories. Add any necessary explanation. Courses listed must be at the 200 level (according to McGill standard) or higher and you must have received a grade equivalent to McGill grade of “C” or higher. Please submit your completed grid as a supporting document to your application.

**N.B. Courses in Education (unless designated as ‘content’ courses) cannot be included.**

**Ideal 30 credits:** With a view to informing an applicant’s consideration of which courses to count within the required 30 credits of disciplinary background (subject area) courses, and also to assist the admissions committee in their assessment, the following are the ideal courses/credits, informed by a) [Ministry guidelines](https://mcgill-my.sharepoint.com/:b:/r/personal/caroline_riches_mcgill_ca/Documents/teacher%20ed/MATL/45%20credits/Balises%20admission%20ma%C3%AEtrises%20Sept%206,%202013.pdf?csf=1&web=1&e=OM2fVk) and b) the [Quebec Education Program](https://www.quebec.ca/en/education/preschool-elementary-and-secondary-schools/quebec-education-program/secondary).

|  |
| --- |
| **9 credits in the following areas:**   * 3 credits in Physics (e.g. McGill courses [PHYS 328](http://www.mcgill.ca/study/2018-2019/courses/phys-328), [PHYS 331](http://www.mcgill.ca/study/2018-2019/courses/phys-331), [PHYS 242](http://www.mcgill.ca/study/2018-2019/courses/phys-242))   ***Students having completed McGill courses PHYS 101 or 102 or CEGEP equivalent will have met this physics requirement, However CEGEP level courses do NOT course toward the 30 required disciplinary background credits. In this case, 24 credits will be required in section below.***   * 3 credits in Chemistry - including Physical and Organic (e.g. McGill courses [CHEM 222](http://www.mcgill.ca/study/2018-2019/courses/chem-222), [CHEM 243)](http://www.mcgill.ca/study/2018-2019/courses/chem-243) * 3 credits in Biology - courses related to study of life and living organisms - plant, animal or human – including areas such as nutrition and genetics. (e.g. McGill courses [BIOL 201](http://www.mcgill.ca/study/2018-2019/courses/biol-201), [BIOL 205](http://www.mcgill.ca/study/2018-2019/courses/biol-205), [BIOL 215](http://www.mcgill.ca/study/2018-2019/courses/biol-215))   **21-24 credits in Science & Technology from several of the following categories:**   * Environmental Science - Environmental Biology, Sustainability, Resource Management, may include Ecology (e.g. McGill courses [ENVR 200](http://www.mcgill.ca/study/2018-2019/courses/envr-200), [ENVR 203](http://www.mcgill.ca/study/2018-2019/courses/envr-203), [GEOG 205](http://www.mcgill.ca/study/2018-2019/courses/geog-205)) * Earth & Space Science such as Meteorology, Geology, Oceanography, Geophysics, Biogeography can also include Atmospheric Science, Astronomy. (e.g. McGill courses [EPSC 201](http://www.mcgill.ca/study/2018-2019/courses/epsc-201), [ATOC 215](http://www.mcgill.ca/study/2018-2019/courses/atoc-215), [GEOG 272](http://www.mcgill.ca/study/2018-2019/courses/geog-272)) * Statistics (e.g. McGill course [MATH 204](http://www.mcgill.ca/study/2018-2019/courses/math-204)) * Additional courses from Physics, Chemistry, Biology, Environmental Science, Earth and Space Science and Statistics * Laboratory safety and security, including biosecurity * Nature of science and technology (e.g. epistemology, history, methodology) * Impact of science and technology on society and environment * Technology (Engineering), for example: technical drawing, computer-aided design, design and analysis of technical objects and technology systems, electronics, manufacturing and machining processes biotechnology, material science (including biomaterials), biomechanics, robotics, optics, lasers, photonics and optoelectronics |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Student: | | | | | MATL: **Science and Technology** | | |
| McGill ID: | | | | | Previous Degree(s): | | |
| Date: | | | | | Additional background: | | |
| **Science and Technology (30 credits)** | | | | | | | |
| **9 credits in Required Science & Technology** | | | | | | | |
|  | | **University** | **Course #** | **Course Title (Year/Term)** | | **Grade** | **CREDITS** |
| **Physics** | |  |  |  | |  |  |
| **Chemistry** | |  |  |  | |  |  |
| **Biology** | |  |  |  | |  |  |
| **Sub-total** | | | | | | | /9 (6) |
| **21 credits in Additional Science & Technology (24 credits if Physics credits above are at the CEGEP level)** | | | | | | | |
|  | **University** | | **Course #** | **Course Title (Year/Term)** | | **Grade** | **CREDITS** |
|  |  | |  |  | |  |  |
|  |  | |  |  | |  |  |
|  |  | |  |  | |  |  |
|  |  | |  |  | |  |  |
|  |  | |  |  | |  |  |
|  |  | |  |  | |  |  |
|  |  | |  |  | |  |  |
|  |  | |  |  | |  |  |
|  |  | |  |  | |  |  |
|  |  | |  |  | |  |  |
|  |  | |  |  | |  |  |
|  |  | |  |  | |  |  |
|  |  | |  |  | |  |  |
|  |  | |  |  | |  |  |
|  |  | |  |  | |  |  |
|  |  | |  |  | |  |  |
| **Sub-total** | | | | | | | /21 (24) |
| **Total Credits** | | | | | | | /30 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **List any courses that do not fit into the categories above, but are related to the subject-area** | | | | |
| **University** | **Course number** | **Course Title (Year/Term)** | **Grade** | **CREDITS** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

**EXPLANATORY NOTES:**

**Course and Program Links**

Please provide a clickable link to your program(s) of study and links to the course descriptions for every course listed above

|  |  |  |
| --- | --- | --- |
| **University** | **Program** | **Link to Program of Study** |
|  |  |  |
|  |  |  |
|  |  |  |

|  |  |  |
| --- | --- | --- |
| **University** | **Course Number** | **Link to Course Description** |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |