

BACHELOR OF ARTS (MATH Major) Checklist

BACHELOR OF ARTS DEGREE REQUIREMENTS

First-Year English Requirement

Min. 6 credits of any two of the following English at the 1000 level: ENGL 1100, 1110, 1120, 1140, 1210

Scientific and Formal Reasoning Requirement (SFR)

Min. 9 credits in any of the following:

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|---------------------|---|
| Archaeology: | ARCH 1110, 2010 |
| Computing Science: | COMP |
| Mathematics: | MATH |
| Philosophy: | PHIL 2220, 2400 |
| Physical Geography: | GEOG 1000, 2020, 2050, 2700, 2750 |
| Science: | ASTR, BIOL, CHEM, FRST, GEOL, NRSC, PHYS, AGSC |
| Statistics: | One of STAT 1200, STAT 2000, BIOL 3000, ECON 2320, or PSYC 2100 |

The following sections CANNOT include the courses used for English and Scientific/Formal Reasoning above. Courses may be used in multiple sections (e.g. SPAN 1110: Breadth, Distribution, and Second Language)

Breadth Requirement

Min. of **one 1000/2000** level courses from at least **four different** Arts disciplines (12 credits min):

Anthropology, Archaeology, Chinese, Communications, Creative Writing, Economics, English, Film, First Nations Language, First Nations Studies, French, Geography, German, History, Indigenous Studies, Japanese, Journalism, Linguistics, Mathematics, Music, Philosophy, Political Studies, Psychology, Sociology, Spanish, Speech, Theatre, Visual Arts

Distribution Requirement

Min. of **one 1000/2000** level course from at least **two** of the following categories (6 credits min):

Humanities: Chinese, Communications, English Literature, First Nations Language, First Nations Studies, French, German, History, Japanese, Journalism, Linguistics, Modern Languages, Philosophy, Spanish, Speech

Social Sciences: Anthropology, Archaeology, Economics, Geography, Indigenous Studies, Political Studies, Psychology, Sociology

Creative & Performing Arts: Creative Writing, Film, Visual Arts, Music, Theatre

Second Language Requirement (replace with electives if transcript shows Grade 12 language other than English)

6 credits of post-secondary language other than English (or electives)

Writing Intensive Requirement

6 credits of designated 1000/2000 Writing Intensive courses (see Writing Intensive list in [Academic Calendar](#))

6 credits of designated 3000/4000 Writing Intensive courses (see Writing Intensive list in [Academic Calendar](#))

Outside Arts and Science (max 12 credits if taken, NOT required)

Bachelor Of Arts Degree –MATHEMATICS MAJOR Checklist (120 credits)

| 1000-level or higher (max 42 credits) | | | 2000/3000/4000 level (30 credits) | | | 3000/4000 level (min. 48 credits) | | |
|--|--------|----------------------------------|--|--------|-------|--|--------|-------|
| | COURSE | GRADE | | COURSE | GRADE | | COURSE | GRADE |
| ENGL 1100 – Intro to University Writing | | | MATH 2110 – Calculus 3 | | | 3000/4000 level MATH (21 credits) | | |
| ENGL 1110 or 1210 | | | MATH 2120 – Linear Algebra 1 | | | MATH 3070 or 3220 | | |
| MATH 1140 – Calculus 1 (SFR) | | | MATH 2200 – Introduction to Analysis*** | | | MATH 3000 or 3200 | | |
| MATH 1240 – Calculus 2 (SFR) | | | MATH 2700 – Discrete Mathematics 2 | | | MATH 3000/4000 level | | |
| MATH 1220 or 1700 | | | STAT 2000 – Probability & Statistics | | | MATH 3000/4000 level | | |
| 2 nd Language or Elective | | | ENGL 2000 level elective | | | MATH 3000/4000 level | | |
| 2 nd Language or Elective | | | Minor or Elective* | | | MATH 3000/4000 level | | |
| COMP 1130 – Computer Programming 1 | | | Minor or Elective* | | | MATH 3000/4000 level | | |
| COMP 1230 – Computer Programming 2 ** | | | Elective | | | 3000/4000 level COMP, MATH, or STAT (9 credits) | | |
| Minor or Elective* | | | Elective | | | (No more than 6 of these 9 credits in COMP) **** | | |
| Minor or Elective* | | | General Electives: Institutional Learning Outcomes (ILOs) may be required to graduate. Refer to the Degree Works website for more information. | | | COMP/MATH/STAT (3000/4000 level) | | |
| Elective | | COMP/MATH/STAT (3000/4000 level) | | | | | | |
| Elective | | COMP/MATH/STAT (3000/4000 level) | | | | | | |
| Elective | | | | | | | | |
| NOTES: * MINORS are optional. Please refer to the Academic Calendar for Minor requirements. ** COMP 1230 is required for further studies in Computing Science. *** MATH 2200 can be delayed to 3 rd year **** Students interested in pursuing computing science 3000 or 4000 level courses must complete COMP 1130, 1230, 2130 and 2230. | | | Arts Program Advisors ArtsAdvising@tru.ca | | | 3000/4000 level Electives (18 credits) | | |
| | | | BA Honours in Mathematics Requires completion of 126 credits and an overall GPA of 3.0. Honours program in Mathematics requires all of: MATH 3000, 3070, 3200 & 3220 plus MATH 4950 (Honours Thesis). | | | Elective or Minor (3000/4000 level) | | |
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| | | | | | | NOTES: | | |

BACHELOR OF ARTS (MATH MAJOR) GRADUATION REQUIREMENTS:

1. Students may complete up to a Maximum of 42 credits at the 1000 level.
2. Students must complete a Minimum of 48 credits at 3000/4000 level.
3. A minimum of 30 credits numbered 3000 and above must be taken in MATH, STAT and/or COMP.

KEEP IN MIND

Course Load: Transitioning to university can be challenging and many students choose to take a lighter course load. Please speak with Academic Advising to discuss sequencing and work load.
Resources: More about the program requirements in the [Academic Calendar](#). More about course prerequisites, co-requisites and course times in the [Course Schedule](#).

ARTS AND SCIENCE ELECTIVES

| SECOND LANGUAGE | SCIENTIFIC & FORMAL REASONING | LIST A HUMANITIES | LIST B SOCIAL SCIENCES | LIST C CREATIVE/ PERFORMING ARTS |
|---|---|---|---|--|
| Chinese (CHIN) First Nation (FNLG) French (FRAN) German (GERM) Japanese (JAPA) Modern Languages (MLAN) Spanish (SPAN) | Agricultural Science (AGSC) Archaeology (ARCH) - 1110, 2010 Astronomy (ASTR) – All Biology (BIOL) – All Chemistry (CHEM) – All Computing (COMP) – All Forestry (FRST) – All Physical Geography (GEOG) – 1000, 2020, 2050, 2700, 2750 Geology (GEOL) – All Mathematics (MATH) – All Natural Resource Science (NRSC) – All Physics (PHYS) – All Statistics (STAT) – All | Communications (CMNS) English (ENGL) First Nations Studies (FNST) History (HIST) Linguistics (LING) Journalism (JOUR) Modern Languages (MLAN) Philosophy (PHIL) Speech (SPEE) | Anthropology (ANTH) Archaeology (ARCH) Economics (ECON) Geography (GEOG) Indigenous Studies (INDG) Political Studies (POLI) Psychology (PSYC) Sociology (SOCI) | Creative Writing (CRWR) Film (FILM) Music (MUSI) Theatre (THTR) Visual Arts (VISA) |

OTHER ELECTIVES

Up to 12 credits of electives outside of Arts and Science are permitted in the Bachelor of Arts. e.g., Business, Tourism, Social Work, Physical Education, etc. Please check with an Academic Advisor if you would like to take an elective not listed above.

KEEP IN MIND

Institutional Learning Outcomes (ILOs):

May be required for your program. Using the **Degree Works** planning tool will help you identify which courses apply.

Degree Works Planning Tool:

More information is available through the [Degree Works website](#).