Planned Major at U of M: ____________________________

Not sure what major you want?

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<tr>
<th>Type of Course</th>
<th>Course Code</th>
<th>Term</th>
<th>Credit Hour Value</th>
<th>Letter Grade Earned</th>
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<td>Required by ICM</td>
<td>ILS100 or AES 100 or ESW100 + ESR100</td>
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<td>Written English Requirement for Arts Faculty</td>
<td>Choose 1 of: *ENGL 1400 or ARTS 1110</td>
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ICM unique credit hours (chs) already completed: (do not include repeated courses)

30 chs to be completed by:
Month______/ Year______

Current cumulative GPA:

Admission GPA required:
Minimum 2.0 GPA on best 30 chs (must include unique chs and cannot include repeated courses)

Expected intake at U of M:
Month______/ Year______

Advisor Comments:

*(previously ENGL 1310) ENGL 1310 will accepted for credit at the U of M, however students beginning in 201403 will be required to take ENGL 1400.

**Note: A separate Planning Guide is available for students who plan to study Computer Science.

Notes:
Different Science departments at the U of M have different requirements, so there is no set way to complete the UTP II Science pathway. If you know the area you wish to major in, use the U of M Calendar to research your course choices or discuss with an ICM or a U of M student advisor.

[http://crscalprod1.cc.umanitoba.ca/FacultyofScience.catx](http://crscalprod1.cc.umanitoba.ca/FacultyofScience.catx)

It is the student’s responsibility to check the University of Manitoba Applicant Information Bulletin for the relevant Faculty to obtain official information. In the event of a discrepancy between the Planning Sheets and the information in the University of Manitoba General Calendar, the General Calendar will prevail.
Students who are required to complete subject upgrade classes in physics, chemistry or mathematics may be blocked from taking one or more of the subjects below until they have satisfied their requirements. For example, those required to take UTP I Math cannot register in UTP II Math, Chemistry, Biology or Physics classes.

**FACULTY OF SCIENCE CREDIT COURSES** - (Requirements depend on choice of specific program)

**MATH 1300** – Vector Geometry and Linear Algebra and/or **MATH 1500** – Introduction to Calculus and/or **STAT 1000** – Basic Statistical Analysis 1 (each U of M Science Major or Honours program requires one or more of these Math courses)

**BIOL 1000*** – Biology: Foundations of Life (Cannot use credit for both BIOL 1000 and 1020)

**BIOL 1020** – Biology 1: Principles and Themes (Cannot use credit for both BIOL 1000 and 1020)

**BIOL 1030** – Biology 2: Biological Diversity, Function and Interactions (must complete BIOL 1020 first with minimum grade of 'C')

**CHEM 1300** – University 1 Chemistry: Structure and Modelling in Chemistry

**CHEM 1310** – University 1 Chemistry: An Introduction to Physical Chemistry (must complete CHEM 1300 first with minimum grade of 'C')

**COMP 1012** – Computer Programming for Scientists and Engineers (Note: students must take MATH 1500 before, or at the same time as COMP 1012)

**COMP 1260** – Introductory Computer Usage 1 (not for credit in Computer Science major)

**MATH 1700** – Calculus 2 (must complete MATH 1500 first with minimum grade of 'C')

**PHYS 1050** – Physics 1: Mechanics (Note: students must take MATH 1500 prior to, or at the same time as PHYS 1050)

*Note: BIOL 1000 can be used as an elective in non-biological programs. It is also required as a pre-requisite for BIOL1020 IF students do not have Grade 12 biology. CAUTION: Students who have high school biology and plan to take BIOL1020 and BIOL1030 SHOULD NOT TAKE THIS COURSE WITHOUT SPEAKING TO STUDENT ADVISOR. Students cannot hold credit for both BIOL 1000 and BIOL 1020.

You can take both courses, but you only receive 3 credit hours for the U of M.

**MOST SCIENCE MAJORS REQUIRE AT LEAST ONE ARTS COURSE SUCH AS:**

**ANTH 1220** – Cultural Anthropology

**ARTS 1110** – Introduction to University (if not taken as Written English requirement)

**ECON 1010** – Introduction to Microeconomic Principles

**ECON 1020** – Introduction to Macroeconomic Principles

**ENGL 1400** – Thematic Approaches to the Study of Literature. (if not taken as Written English requirement)

*Previously ENGL 1310 – Literary Topics 1

**PHIL 1290** – Critical Thinking

**POLS 1010** – Political Ideas and Ideologies

**POLS 1040** – Global Political Issues

**PSYC 1199** and **PSYC 1200** – Introduction to Psychology *6 credit hours (Students must register in BOTH courses in consecutive semesters and will only receive credit for the course after completing 1200.)

**ELECTIVES FROM OTHER FACULTIES FOR POTENTIAL CREDIT IN SCIENCE**

**ABIZ 1000** – Introduction to Agribusiness Management

**ABIZ 1010** – Economics of World Food Issues and Policies

**ENVR 1000** – Environmental Science 1 - Concepts

**GEOG 1280** – Introduction to Human Geography

**GEOG 1290-Introduction to Physical Geography.**

**HNSC 1210** – Nutrition for Health and Changing Lifestyles.

**HRIR 2440** – Human Resource Management

**INTB 2200** – International Business

**MKT 2210** – Fundamentals of Marketing

Note: UTP II Engineering courses can also be used as electives, but are not listed here. In order to take UTP II Engineering courses like ENG 1430, ENG 1440, ENG 1450, ENG 1460 and MATH 1210 you must be a student in the UTP II Engineering program.

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