



UTPII Computer Science Program Planning Guide

Type of Course	Course Code	Term	Credit Hour Value	Letter Grade Earned
Required by ICM	ILS100 or AES 100 or ESW100 + ESR100		0	
Required by ICM - Written English Requirement	ENGL 1400 <i>or</i> ARTS 1110		3	
Required for Computer Science Major (min C+)	COMP 1010		3	
Required for Computer Science Major (min C+)	COMP 1020		3	
Required for Computer Science Major (min C+ for 4 year or Honours program)	MATH 1300		3	
Required for Computer Science Major (min C+ for 4 year or Honours program)	MATH 1500		3	
Required for Computer Science Major (min C for 4 year or Honours program)	STAT 1000		3	
Required by Computer Science - one additional course from the Faculty of Arts (see list on following page)			3	
Elective - your choice			3	
Elective - your choice			3	
Elective - your choice			3	
TOTAL			30 credit hours passed	

ICM unique credit hours (crhrs) already completed:
(do not include repeated courses):

30 crhrs to be completed by:

Month _____ / Year _____

Current cumulative GPA:

Admission GPA:

Minimum 2.0 GPA on best 30 crhrs (must include unique crhrs and cannot include repeats) and a minimum grade of C+ in COMP 1020.

Expected intake at U of M:

Month _____ / Year _____

Complete details about requirements for each Science degree can be found in the University of Manitoba General Calendar at: <http://crscalprod1.cc.umanitoba.ca/FacultyofScience.catx>

****Note:** As of Fall 2019, a C+ is required in MATH1300 and MATH1500, and a C is required in MATH1700.

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.



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Students who are required to complete UTP1 course to upgrade classes in physics, chemistry or mathematics may be blocked from taking one or more of the subjects below until they have satisfied the pre-requisite. For example: Those required to take UTP1 Math, you cannot register in UTP2 Math, Chemistry, Biology or Physics classes. Please contact a Student Advisor if you have questions. advisor@learning.icmanitoba.ca

FACULTY OF ARTS ELECTIVE COURSES FOR CREDIT IN SCIENCE:

ANTH 1220 – Cultural Anthropology

ARTS 1110 – Introduction to University

ECON 1010 – Introduction to Microeconomic Principles

ECON 1020 – Introduction to Macroeconomic Principles

ENGL 1400 – Thematic Approaches to the Study of Literature.

PHIL 1290 – Critical Thinking

POLS 1502 – Introduction to Political Studies

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.)

*Previously **ENGL 1310** – Literary Topics 1

FACULTY OF SCIENCE ELECTIVE COURSES:

BIOL 1000* – Biology: Foundations of Life (Cannot use credit for both BIOL 1000 and 1020. Please read the important notes in Course Descriptions file.)

BIOL 1020 – Biology 1: Principles and Themes (Cannot use credit for both BIOL 1000 and 1020. Please read the important notes in Course Descriptions file.)

BIOL 1030 – Biology 2: Biological Diversity, Function and Interactions (must complete BIOL 1020 first with min. '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 min. 'C')

MATH 1700 – Calculus 2 (must complete MATH 1500 first with min. 'C+')

MBIO 1220 - Essentials of Microbiology (NOTE: MBIO 1220 is intended for students planning to enter the College of Nursing or other healthcare or related programs. MBIO 1220 cannot be used to satisfy the requirements of the Microbiology Honours or Major degree programs. MBIO 1220 can be used as an elective course in any Science program)

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 not be used in biological programs but it can be used as an elective in non-biological programs. It can be used as a pre-requisite for BIOL1020 in place of 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 THE STUDENT ADVISOR. Students cannot hold credit for both BIOL 1000 and BIOL 1020. You can take both courses, but you can only use 3 of the 6 crhrs towards a U of M degree.

ELECTIVE COURSES 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

KPER 1200 – Physical Activity, Health and Wellness

INTB 2200 – International Business

MKT 2210 – Fundamentals of Marketing

HRIR 2440 – Human Resource Management

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