

ICM International Year One (UTP Stage II)

Science - Data Science Program Planning Guide

ICM will provide, upon request, information through a communication support or accessible format.

Type of Course	Course Code	Term	Credit Hour Value	Letter Grade Earned
Required by ICM	ILS		0	
Required Writing Requirement (W)	Choose 1 of: ENGL 1400 Or ARTS 1110 Or POLS 1502		3	
Required by ICM (minimum D)	COMP1000		3	
Required (minimum C for Majors)	COMP 1012*		3	
Required (minimum C+ for Majors)	COMP 1020		3	
Required (minimum C+ for Majors)	MATH 1300*		3	
Required (minimum C for Majors)	MATH 1500		3	
Required (minimum B for Majors)	MATH 1700		3	
Required (minimum C for Majors)	MATH 1240		3	
Required (minimum C+ for Majors)	STAT 1150		3	
Required Elective from Faculty of Arts			3	
Total			30 cr. hours	

- EFFECTIVE 2027-2028: ADVANCED ENTRY**
 Students who wish to transfer to the Faculty of Science from another faculty at the University of Manitoba, or another recognized post-secondary institution, must have completed a minimum of 24 credit hours of post-secondary courses and have achieved a minimum adjusted grade point average (AGPA) of at least 2.00 to be eligible. To be eligible students must have also completed the following:
 - A 3-credit hour course deemed to have fulfilled the University of Manitoba mathematics requirement; and
 - 6 credit hours of courses at the 1000-level or higher which are deemed to be Faculty of Science courses at the University of Manitoba with grades of C or better.
 - COMP 1010 may be taken in place of COMP 1012 but it is recommended to take COMP 1012.
 - MATH 1300 is recommended. MATH 1210 (B) may be taken in place of MATH 1300.
 - Students should apply to the **UM at the beginning of their second-to-last semester** at ICM, prior to completing 30 unique credit hours:
 - To complete ICM 30 unique credit hours are required (does not include repeated courses).
 - CGPA includes all failed and/or repeated courses.
 - Admission GPA required: Minimum 2.0 AGPA* to be eligible.
- | Credit hours completed | Credit hours dropped |
|------------------------|----------------------|
| 30-35 | 6 |
| 36-53 | 9 |
| 54-71 | 12 |
- *Calculated using all post-secondary course work including original grade of repeat courses
- Students will apply to General Science and will declare their major once at UM.
 - To Declare Major: Minimum 2.0 DGPA is required and obtain a minimum grade of “C+” in COMP 1020 and STAT 1150 [STAT 1000 & STAT 2000(B)]. In addition, students need to get a minimum grade of “B” in MATH 1700.

UM Program Information:

- Review UM Undergraduate [Advance Entry application deadlines](#).
- View UM [Faculty of Data Science Website](#).
- Review [UM Academic Calendar](#) for degree Requirements.
- View [UM First Year Planning Guide](#) for first year program planning.
- You can meet the [UM Faculty of Science Advisor](#).

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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Unsure which courses to take? Check out the **ICM Course Descriptions** file under Documents on your ICM Student Portal.

Faculty of Science Courses:

- ASTR 1830 – Life in the Universe
- BIOL 1000 – Biology: Foundations of Life
- BIOL 1020 – Biology 1: Principles and Themes
- BIOL 1030 – Biology 2: Biological Diversity, Function, and Interactions.
- CHEM 1100 – Introductory Chemistry 1
- CHEM 1110 – Introductory Chemistry 2
- COMP1000 - Introductory Programming: Think Like a Computer
- COMP 1010 – Introductory to Computer Science
- COMP 1012 – Computer Programming for Scientists and Engineers
- COMP 1500 – Computing: Ideas and Innovation
- MATH 1300 – Vector Geometry and Linear Algebra
- MATH 1500 – Introduction to Calculus
- STAT 1000¹ – Basic Statistical Analysis 1
- STAT 1150 - Introduction to Statistics and Computing
- MBIO 1010 - Microbiology I
- MBIO 1220- Essentials of Microbiology
- MATH 1700 – Calculus 2
- PHYS 1020 – General Physics 1
- PHYS 1050 – Physics 1: Mechanics

1. Students who complete both STAT1000 and STAT1150 are able to count both courses towards their 30 credit hours required to complete ICM. However, when students enter UM faculty, only One will be held for credit as students are not able to hold credit for both STAT1000 and STAT1150 at UM.

Electives from Faculty of Arts:

- 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
- FAAH 1030 - Introduction to Art 1A
- FAAH 1040 - Introduction to Art 2A
- 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 PSYC1200)

Electives from other faculties: Check out the **ICM Course Descriptions** file under Documents on your ICM Student Portal.

As announced by IRCC (Immigration, Refugees and Citizenship Canada), starting November 8, 2024, students must be enrolled in the designated learning institution (DLI) named on their study permit. To transition to UM, students will need to obtain a new study permit with the UM's DLI included by applying to extend their current one. Information about this process can be found on the [IRCC Website](#). Additionally, ICM works with an Immigration Lawyer to provide a variety of immigration-related workshops and one-on-one consulting sessions to students, including sessions on how to apply to extend a study permit. Students will receive notice of these events through student communications and via Student Portal.

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