

STEM FOUNDATIONS (SCIENCE, TECHNOLOGY, ENGINEERING & MATH) (CERT.) (30 CREDITS)

Offered by: Career & Professional Develop

Program credit weight: 30

Program Description

The Certificate in STEM Foundations (Science, Technology, Engineering and Mathematics) is a 30-credit undergraduate program that focuses on specific STEM topics (i.e., mathematics, chemistry, biology and physics) at the Grade 12 level.

NOTE: There is no guarantee admission to a McGill degree program upon completion of the Certificate in STEM Foundations (Science, Technology, Engineering and Mathematics).

Note: For information about Fall 2025 and Winter 2026 course offerings, please check back on May 8, 2025. Until then, the "Terms offered" field will appear blank for most courses while the class schedule is being finalized.

Required Courses (24 credits)

Expand allContract all

Course	Title	Credits
CMSC 000	Foundations of Mathematics	3
CMSC 003	Foundations of Logarithms, Trigonometry & Intro to Calculus.	3
CSCI 010	Foundations in General Biology 1.	3
CSCI 020	Foundations in General Chemistry 1.	3
CSCI 021	Foundations in General Chemistry 2.	3
CSCI 030	Fundamentals of Physics - Mechanics.	3
CSCI 031	Fundamentals of Physics - Waves and Optics.	3
CSCI 041	Essential Communication Skills for STEM.	3

Complementary Courses (6 credits)

• 3 credits from:

Expand allContract all

Course	Title	Credits
CMSC 004	Foundations: Statistics, Probability & Intro to Linear Algebra.	3
CSCI 011	Foundations of General Biology 2. ²	3

¹ For Engineering programs.

² For Health and Science programs.

- 3 credits from the following (up to 3 credits may be chosen from 100-level courses approved by the program adviser):

Expand allContract all

Course	Title	Credits
CSCI 022	Fundamentals of Organic Chemistry.	3
CSCI 040	Basic Concepts in Mathematics & Science.	3
WCOM 150	Critical Analysis and Composition.	3
WCOM 295	ESL: Academic Skills.	3