MOUNT ROYAL UNIVERSITY
Faculty of Science and Technology

Department of Mathematics and Computing

COMP 2613–001
Introduction to Computability
Winter 2026

Tentative Course Schedule

Week	Lectures (Tue and Thu)	Due
1 - Jan 5 – 9	Course Intro, Computability and Proofs	
2 - Jan 12 – 16	Alphabets, Strings and Languages	Q1 (Fri)
3 - Jan 19 –23	DFAs and NFAs	A1 (Fri)
4 - Jan 26 – 30	NFA and DFA equivalence, regular expressions, transducers, Pumping Lemma	
5 - Feb 2 – 6	Regular languages and regular expressions and midterm prep	A2 (Fri)
6 - Feb 9–13	Tues **Midterm I**, Intro to Context Free Grammars	MT1 (Tue)
- - Feb 16–20	**Family Day and Reading Week**, No Classes	
7 - Feb 22 – 27	Pushdown automata (PDA) and Turing Machines	A3 (Fri)
8 - Mar 2 – 6	Turing Machines, Unrestricted grammars, TM encodings	Q2 (Fri)
9 - Mar 9 – 13	Logic and decidability, semi decidable and undecidable languages	A4 (Fri)
10 - Mar 16 – 20	Tue **Midterm II**, semi-decidable and undecidable languages	
11 - Mar 23 – 27	Reductions	Q3 (Fri)
12 - Mar 30–Apr 3	Rice's Theorem, Church-Turing Theorem, Fri-**Good Friday**	A5 (Fri)
13 - Apr 6 – 10	Lamdba Calculus	Q4 (Fri)

Dates:

- Jan 6, Monday, First Day of Classes
- Jan 14, Wednesday, Last day to adjust registration (add/drop)
- Jan 16, Friday, Quiz 1
- Jan 23, Friday, Assignment 1
- Feb 6, Friday, Assignment 2
- Feb 10, Tuesday, Midterm I
- Feb 16, Monday, Family Day – campus closure
- Feb 17–20, Tuesday – Friday: Reading Week – no classes
- Feb 27, Friday, Assignment 3
- Mar 6, Friday, Quiz 2
- Mar 9, Monday, 25% formal feedback
- Mar 13, Friday, Assignment 4
- Mar 17, Tuesday, Midterm II
- Mar 20, Friday, Last day to withdraw with a W
- Mar 27, Friday, Quiz 3
- Apr 2, Thursday, Assignment 5
- Apr 3, Friday, Good Friday – campus closure
- Apr 6, Monday, Easter Monday – campus closure
- Apr 10, Friday, Quiz 4
- Apr 13, Monday, 50% feedback required
- Apr 13, Monday, Last day of Winter 2026
- Apr 15 – 25, Wesnesday–Saturday: Final Examination Period