

## MGY378H1 S

### MICROBIOLOGY II – VIRUSES

January – April 2026

#### Instructors:

**Time: MWF 12-1 pm**

Dr. A. Cochrane (coordinator) (alan.cochrane@utoronto.ca)

Dr. L. Frappier (lori.frappier@utoronto.ca)

Dr. J. Muffat (Julien.muffat@utoronto.ca)

Dr. R. Kozak (Rob.kozak@sunnybrook.ca)

#### TA

Jasmine Sheppard (jasmine.sheppard@mail.utoronto.ca)

#### In Person:

- Mon. 12:00 — 13:00
- Wed. 12:00 — 13:00
- Fri. 12:00 — 13:00

**Textbook:** Fundamentals of Molecular Virology Third Edition, N. Acheson (suggested)

**Course Material:** Lecture slides available on MGY378 Quercus website

Week	Date	Lecture	Instructor	Lecture Topic
1	Monday Jan. 5	1	Dr. Cochrane	Viruses: An Introduction
	Wednesday Jan.7	2	Dr. Samira Mubareka	Guest lecture
	Friday Jan. 9	3	Dr. Muffat	Positive strand RNA viruses I (picorna and flaviviruses)
2	Monday Jan. 12	4	Dr. Muffat	Positive strand RNA viruses II (picorna and flaviviruses)
	Wednesday Jan. 14	5	Dr. Muffat	Positive strand RNA viruses III (coronaviruses)
	Friday Jan. 16	6	Dr. Muffat	Negative strand RNA viruses (Mononegavirales: paramyxoviruses, rhabdoviruses, filoviruses)
3	Monday Jan. 19	7	Dr. Muffat	Segmented negative strand RNA viruses I (bunyaviruses, influenza virus)
	Wednesday y Jan. 21	8	Dr. Muffat	Segmented negative strand RNA viruses II (influenza virus)
	Friday Jan 23	9	Dr. Cochrane	Double-stranded RNA viruses (reoviruses, rotaviruses)

4	Monday	10	Dr. Cochrane	Retroviruses I
	Jan. 26			
	Wednesday	11	Dr. Cochrane	Retroviruses II
	Jan. 28			
	Friday	12	Dr. Cochrane	Retroviruses III
	Jan. 30			(Lentiviruses / HIV)
5	Monday		Review (Drs. Muffat and Cochrane)	
	Feb. 2			
	Wednesday		<b>Midterm Test - 1 hour</b>	
	Feb. 4		<b>Location:</b> Exam centre Ex	
			(material from lectures 1-11)	
	Friday	13	Dr. Cochrane	Hepatitis B virus
	Feb. 6			
6	Monday	14	Dr. Cochrane	Hepatitis virus B/D
	Feb. 9			
	Wednesday	15	Dr. Frappier	Parvoviruses and Introduction to adenoviruses
	Feb. 11			
	Friday	16	Dr. Frappier	Adenoviruses
	Feb. 13			
7	Feb 16-20		Reading Week	
8	Monday	17	Dr. Frappier	Polyomaviruses
	Feb. 23			
	Wednesday	18	Dr. Frappier	Papillomaviruses I
	Feb. 25			
	Friday	19	Dr. Frappier	Papillomaviruses II
	Feb. 27			
9	Monday	20	Dr. Frappier	Herpesviruses I
	Mar. 2			(Introduction and Herpes simplex virus)
	Wednesday	21	Dr. Frappier	Herpesviruses II
	Mar. 4			(Herpes simplex and cytomegalovirus)
	Friday	22	Dr. Frappier	Herpesviruses III (EBV)
	Mar. 6			
10	Monday	23	Dr. Frappier	Poxviruses
	Mar. 9			
	Wednesday		Review (Frappier and Cochrane)	
	Mar. 11			
	Friday		<b>Midterm Test - 1 hour</b>	
	Mar. 13		<b>Location: Exam centre Ex</b>	
			(material from lectures 12-23)	
11	Monday	24	Dr. Cochrane	Antivirals-I
	Mar. 16			
	Wednesday	25	Dr. Cochrane	Antivirals -II
	Mar. 18			
	Friday	26	Dr. Kozak	Clinical virology I
	Mar. 20			

12	Monday	27	Dr. Kozak	Clinical virology II
	Mar. 23			
	Wednesday	28	Dr. Kozak	Viruses as vectors – I
	Mar. 25			
	Friday	29	Dr. Kozak	Viruses as Vectors - II/Oncolytic viruses
	Mar. 27			
13	Monday	30	Dr. Kozak	Vaccines I
	Mar. 30			
	Wednesday	31	Dr. Kozak	Vaccines II.
	April 1			
	Friday	32	Good Friday	
	April 3			

<b>ASSESSMENT:</b>	Midterm test #1 (lectures 1-11)	25%
	Midterm test #2 (lectures 12-23)	25%
	Online tests ~1test/ week (10 total)	10%
	Final exam (cumulative)	40%

If for any reason you are unwell, please email our TA Jasmine ([jasmine.sheppard@mail.utoronto.ca](mailto:jasmine.sheppard@mail.utoronto.ca)) within 48 hours of a missed midterm to arrange for a make-up. Please include "MGY378" in the subject line of any email communication related to this course. Students remain responsible for meeting course requirements as determined by your instructors.