

MAT 181-050 – COURSE SCHEDULE
SPRING SEMESTER 2024
(subject to change)

DATE	MATERIAL COVERED IN LECTURE	<i>To do for next class</i> Assignments due
M: Jan 22	Intro to Course §1.1: Functions	<i>Read §1.1-1.2</i>
T: Jan 23	§1.2: Function Repertory	<i>Read §1.3</i>
W: Jan 24	§1.3: Transforming Functions	<i>Read §1.4</i>
F: Jan 26	§1.4: Inverse Functions	
M: Jan 29	CHAPTER 1 CATCH-UP	<i>Read §2.2</i>
T: Jan 30	§2.2: Limits All Around the Plane	
W: Jan 31	§2.2 Continued	
F: Feb 2	§2.2 Continued D2L Quiz 1	<i>Read §2.4</i> HW I
M: Feb 5	§2.4 Determining Limits of Functions	<i>Read §2.4</i>
T: Feb 6	§2.4 Continued	
W: Feb 7	§2.4 Continued	<i>Read §2.5</i>
F: Feb 9	§2.5: Continuity D2L Quiz 2	HW II
M: Feb 12	§2.5 Continued	
T: Feb 13	CATCH-UP ON LIMITS	WW 1.1–1.4, 2.2, 2.4
W: Feb 14	EXAM I Sections 1.1-1.4, 2.2, 2.4, 2.5	<i>Read §2.1</i>
F: Feb 16	§2.1: Rates of Change and Tangents	<i>Read §2.6</i>

DATE	MATERIAL COVERED IN LECTURE	<i>To do for next class</i> Assignments due
M: Feb 19	§2.6: The Derivative	<i>Read §3.1</i>
T: Feb 20	§3.1: Differentiation Notation	
W: Feb 21	§3.1 Continued	
F: Feb 23	§3.1 Continued D2L Quiz 3	<i>Read §3.2</i> HW III
M: Feb 26	§3.2: Derivatives of Polynomials, Exponentials, Products, and Quotients	
T: Feb 27	§3.2 Continued	<i>Read §3.3</i>
W: Feb 28	§3.3: Derivatives of Trig Functions	<i>Read §3.4</i>
F: Mar 1	§3.4: The Chain Rule D2L Quiz 4	<i>Read §3.5</i> HW IV
M: Mar 4	§3.5: Implicit Differentiation	<i>Read §3.6</i>
T: Mar 5	§3.6: Derivatives of Inverse Functions	
W: Mar 6	CATCH-UP ON DERIVATIVES	WW 2.1, 2.5, 2.6, 3.1–3.4
F: Mar 8	EXAM II Sections 2.1, 2.6, 3.1-3.6	
M: Mar 11	SPRING BREAK NO CLASS	
T: Mar 12	SPRING BREAK NO CLASS	
W: Mar 13	SPRING BREAK NO CLASS	
F: Mar 15	SPRING BREAK NO CLASS	<i>Read §3.7</i>

DATE	MATERIAL COVERED IN LECTURE	<i>To do for next class</i> Assignments due
M: Mar 18	§3.7: Rates of Change in Use	
T: Mar 19	§3.7 Continued	<i>Read §4.1</i>
W: Mar 20	§4.1: Extreme Values	<i>Read §4.2</i>
F: Mar 22	§4.2: Mean Value Theorem D2L Quiz 5	<i>Read §4.3</i>
M: Mar 25	§4.3: The 1 st and 2 nd Derivative Tests	
T: Mar 26	§4.3 Continued	
W: Mar 27	§4.3 Continued	<i>Read §4.4</i>
F: Mar 29	§4.4: L-Hôpital's Rule D2L Quiz 6	HW V
M: Apr 1	§4.4 Continued	<i>Read §4.5</i>
T: Apr 2	§4.5: Newton's Method	
W: Apr 3	§4.5 Continued	<i>Read §4.6</i>
F: Apr 5	§4.6: Optimization Problems D2L Quiz 7	HW VI
M: Apr 8	§4.6 Continued	
T: Apr 9	§4.7: Antiderivatives	
W: Apr 10	CATCH-UP ON APPLICATIONS	WW 3.5–3.7, 4.1–4.6
F: Apr 12	EXAM III Sections 3.7, 4.1-4.7	<i>Read §5.1</i>

DATE	MATERIAL COVERED IN LECTURE	<i>To do for next class</i> Assignments due
M: Apr 15	§5.1: Area, Distance, and Riemann Sums	
T: Apr 16	§5.1 Continued	<i>Read</i> §5.2
W: Apr 17	§5.2: The Definite Integral	<i>Read</i> §5.3
F: Apr 19	§5.3: Fundamental Theorem of Calculus D2L Quiz 8	
M: Apr 22	§5.3 Continued	<i>Read</i> §5.4
T: Apr 23	§5.4: Indefinite Integrals	
W: Apr 24	§5.4: Substitution Rule	
F: Apr 26	§5.4 Continued D2L Quiz 9	HW VII
M: Apr 29	§5.4 Continued	<i>Read</i> §5.5
T: Apr 30	§5.5: Definite Integrals & Substitution Rule	
W: May 1	§5.5 Continued	
F: May 3	CATCH-UP ON INTEGRATION & REVIEW D2L Quiz 10	HW VIII WW 4.7, 5.1–5.5
M: May 6	MAT181-050 FINAL EXAM: 11 AM – 1 PM	Location TBD
F: May 10	MAT181-070 FINAL EXAM: 2 PM – 4 PM	Location TBD