Math 23 Paced Syllabus
Midyear Term A.Y. 2023 – 2024

Date	Day	Mode	Topic or Activity
02 JUL	T	F2F	Orientation
			Lec 1.1 Functions of Several Variables, Level Curves and Level Surfaces
03 JUL	W	F2F	Lec 1.2 Limits and Continuity of Functions of Several Variables
			Lec 1.3 Partial Derivatives, Higher Order Derivatives
04 JUL	Th	F2F	Lec 1.4 Differentiability, Differentials, Local Linear Approximation
			Lec 1.5 Chain Rule, Implicit Differentiation
05 JUL	F	F2F	Lec 1.6 Directional Derivatives, Gradients, Tangent Planes
			Lec 2.1 Relative Extrema and Second Derivatives Test
08 JUL	M	F2F	Lec 2.2 Absolute Extrema and Lagrange Multipliers
			Lec 2.3 Parametric Surfaces and Surfaces of Revolution
09 JUL	T	Asynch	Review and consultation day
10 JUL	W	F2F	First Long Exam (Coverage: Lec 1.1 – Lec 1.6)
		Asynch	Lec 2.4 Volumes as Double Integral in Rectangular Coordinates
11 JUL	Th	F2F	Disc 2.4 Recall Lec 2.4; More Examples/Exercises
			Lec 2.5 Double Integrals over General Regions
12 JUL	F	F2F	Lec 2.6 Double Integrals in Polar Coordinates
15 JUL	M	F2F	Lec 2.7 Applications of Double Integrals
16 JUL	T	F2F	Lec 3.1 Mass as Triple Integrals in Rectangular Coordinates
			Lec 3.2 More on Triple Integrals
17 JUL	W	F2F	Lec 3.3 Triple Integrals in Cylindrical Coordinates, Center of Mass
			Lec 3.4 Triple Integrals in Spherical Coordinates
18 JUL	Th	Asynch	Review and consultation day
19 JUL	F	F2F	Second Long Exam (Coverage: Lec 2.1 – Lec 2.7)
		Asynch	Lec 3.5 Vector Fields, Curl and Divergence
22 JUL	M		No Class: State of the Nation Address (SONA) 2024
23 JUL	T	F2F	Disc 3.5 Recall Lec 3.5; More Examples/Exercises
			Lec 3.6 Conservative Vector Fields
24 JUL	W	F2F	Lec 3.7 Line Integrals of Scalar Field and Applications
25 JUL	Th	F2F	Lec 4.1 Line Integrals of Vector Fields, Work
26 JUL	F	Asynch	Review and consultation day
29 JUL	M	F2F	Third Long Exam (Coverage: Lec 3.1 – Lec 3.7)
		Asynch	Lec 4.2 Fundamental Theorem of Line Integrals and Independence of Path
30 JUL	T	F2F	Disc 4.2 Recall Lec 4.2; More Examples/Exercises
			Lec 4.3 Green's Theorem
31 JUL	W	F2F	Lec 4.4 Surface Integrals of Scalar Fields
			Lec 4.5 Surface Integrals of Vector Fields
01 AUG	Th	F2F	Lec 4.6 Stokes' Theorem
			Lec 4.7 Gauss's Divergence Theorem
02 AUG	F	Asynch	Review and consultation day
05 AUG	M	F2F	Fourth Long Exam (Coverage: Lec 4.1 – Lec 4.7)
TBA		F2F	Final Exam

**F2F (face-to-face), Asynch (asynchronous online), TBA (to be announced)*