

Math 126 B — Winter 2019
Tentative Schedule

L= lecture; **QS** = quiz section

Week 1 1/7–1/11	M	L	Intro + §12.1, 12.2: vectors in 2D and 3D
	T	QS	Distance formula in \mathbb{R}^3 + spheres
	W	L	§12.2: vector addition and subtraction, multiplication by scalars, standard basis notation
	Th	QS	Preview: derivation of the dot product and the cross product
	F	L	§12.3: dot products and projections
Week 2 1/14–1/18	M	L	§12.4: cross products
	T	QS	Examples: vector products and projections
	W	L	§12.5: lines in space
	Th	QS	Example: parallel, intersecting, skew lines
	F	L	§12.5: planes in space
Week 3 1/21–1/25	M	L	NO CLASS
	T	QS	Examples: lines and planes
	W	L	§12.6: cylinders and quadric surfaces
	Th	QS	Examples: vector functions as intersection of surfaces
	F	L	§13.1, 13.2: vector functions, curves, and tangent lines
Week 4 1/28–2/1	M	L	§13.3: curvature and arclength
	T	QS	Examples: velocity, speed, acceleration, unit tangent, unit normal vectors
	W	L	§13.4: normal and tangential components of acceleration
	Th	QS	Examples: velocity, speed, acceleration, unit tangent, unit normal vectors
	F	L	§10.3: polar coordinates + sketching polar curves (video)
Week 5 2/4–2/8	M	L	§Q&A for Exam I
	T	QS	Exam I Review
	W	L	14.1: functions of two variables + partial derivatives
	Th	QS	Exam I
	F	L	§14.3, 14.4: partial derivatives, tangent planes
Week 6 2/11–2/15	M	L	§14.7: Optimization
	T	QS	linear approximation + implicit differentiation
	W	L	§14.7: Optimization
	Th	QS	Examples: optimization
	F	L	§15.1, 15.2: double integrals: foundations

Calendar Changes due to Snow Days on the Following Days

Week 7 2/18–2/22	M	L	NO CLASS
	T	QS	Optimization
	W	L	Constrained Optimization
	Th	QS	Constrained Optimization
	F	L	§15.1 – 15.3: double integrals
Week 8 2/25–3/1	M	L	§15.4: double integrals
	T	QS	Examples: volumes between surfaces
	W	L	Taylor Notes §1: first-order Taylor polynomials with error bound
	Th	QS	Q & A for Exam II
	F	L	Taylor Notes §2, 3: second- and higher-order Taylor polynomials with error bound
Week 9 3/4–3/8	M	L	Q & A for Exam II
	T	QS	Exam II
	W	L	Taylor Notes §3,4: Taylor polynomials and Taylor series
	Th	QS	Examples: mechanics of Taylor polynomials
	F	L	Taylor Notes §4: more Taylor series
Week 10 3/11–3/15	M	L	Taylor Notes §4, 5: new series from old
	T	QS	Final Exam Practice
	W	L	Review for Final Exam
	Th	QS	Exam Practice
	F	L	Final Exam Practice