

MTH 164 Schedule

Summer 2022

Day	Date	Sections/Topics Covered
Monday	6/27	Sections 12.1 and 12.2: 3d-coordinates vectors
Tuesday	6/28	Sections 12.3 and 12.4: dot products cross products
Wednesday	6/29	Sections 12.5 and 12.6: equations of lines and planes cylinders and quadric surfaces
Thursday	6/30	Sections 13.1, 13.2, and 13.3: vector functions and space curves derivatives and integrals of vector functions arc length and curvature.
Monday	7/04	NO CLASS (Memorial Day)
Tuesday	7/05	Sections 14.1, 14.2 functions of several variables limits and continuity
Wednesday	7/06	Sections 14.3, 14.4 and 14.5 partial derivatives tangent planes and linear approximations the chain rule
Thursday	7/07	REVIEW
Monday	7/11	MIDTERM 1 (sections 12.1 - 14.2) Section 14.6: directional derivatives and gradient vectors
Tuesday	7/12	Sections 14.7, and 14.8 min/max problems the method of Lagrange multipliers
Wednesday	7/13	Sections 15.1, 15.2 double integrals over rectangles double integrals over general regions
Thursday	7/14	Sections 15.3, 15.4, and 15.5 double integrals in polar coordinates applications surface area
Monday	7/18	Sections 15.6 and 15.7 triple integrals triple integrals in cylindrical coordinates
Tuesday	7/19	Sections 15.8 and 15.9 triple integrals in spherical coordinates change of variables in multiple integrals
Wednesday	7/20	Sections 16.1, 16.2, and 16.3 vector fields line integrals the fundamental theorem of line integrals
Thursday	7/21	REVIEW

Monday	7/25	MIDTERM 2 (sections 14.6 - 15.9)
Tuesday	7/26	Sections 16.4, and 16.5 Green's theorem curl and divergence
Wednesday	7/27	Sections 16.6 and 16.7 parametric surfaces and their areas surface integrals
Thursday	7/28	Sections 16.8, 16.9, and 16. 10 Stokes' theorem the divergence theorem summary
Monday	8/01	REVIEW
Tuesday	8/02	REVIEW
Wednesday	8/03	REVIEW
Thursday	8/04	FINAL EXAM