Math 120B: General Course Outline

Catalog Description

120B. Differential Geometry. (4) Lecture, three hours; discussion, one hour. Requisites: courses 32B, 33B, 115A, 120A, 131A. Curves in 3-space, Frenet formulas, surfaces in 3-space, normal curvature, Gaussian curvature, congruence of curves and surfaces, intrinsic geometry of surfaces, isometries, geodesics, Gauss/Bonnet theorem. P/NP or letter grading.

Textbook

Kuhnel, Differential Geometry, 2nd Edition, AMS

Schedule of Lectures

Week	Chapter	Г	Горіс

3+4 10 Theorema Egregium	
5+6 11 Hyperbolic Geometry	
7+8 12 Minimal Surfaces	
9+10 13 The Gauss-Bonnet Theorer	m

Comments

Outline update: P. Petersen, 3/11 (Requisites updated 5/98)

For more information, please contact Student Services, <u>ugrad@math.ucla.edu</u>.