

# Math 658 Notes

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## 1 Lecture 1 - August 25

### 1.1 Books

**Nonholonomic Dynamics and Control** Anthony Bloch

**Differential Equations, Dynamical Systems, and an Introduction to Chaos** Hirsh, Smale, Devaney

**Mathematical Methods of Classical Mechanics** Vladimir Arnol'd

**Introduction to Mechanics and Symmetry** Ratiu and Marsden

**Foundations of Mechanics** Abraham, Marsden, and Ratiu

**Classical Mechanics** Goldstein

**Classical Mechanics** Whitaker

**Nonlinear Oscillations, Dynamical Systems, and Bifurcations of Vector Fields** Guckenheimer and Holmes