

University of Oregon
Department of Mathematics

Moursund 2008 Lectures

May 7th - May 9th
2008

William Fulton

University of Michigan

*A tea will precede Wednesday's lecture at 3:30 p.m.
&
A reception will follow Thursday's lecture
in 219 Fenton Hall*

Lecture 1: *Part 1 - Equivariant Cohomology of Homogenous Varieties*
4:00 p.m., Wednesday, May 7th, 2008 - 115 Lawrence Hall

Lecture 2: *Part 2 - Equivariant Cohomology of Homogenous Varieties*
4:00 p.m., Thursday, May 8th, 2008 - 115 Lawrence Hall

Lecture 3: *Part 3 - Equivariant Cohomology of Homogenous Varieties*
4:00 p.m., Friday, May 9th, 2008 - 115 Lawrence Hall

Abstract:

The cohomology of Grassmannians and flag varieties has a rich structure, which has been studied geometrically, algebraically, and combinatorially since the 19th century. It grew with the development of enumerative geometry, and influenced the development of intersection theory in algebraic geometry. Equivariant cohomology, which has been available for half a century, further enriches this structure and gives powerful new tools for studying it. These lectures will define and describe these equivariant cohomology rings, and discuss some of the recent developments.