



## Course Announcement

# INTRODUCTION to FUNCTIONAL GENOMICS

26 GNTD 881, 3 credit hours

### Class meetings:

#### Lectures:

Tue, Th 9:00 – 10:00 in MSB 2351

#### Computer Labs:

Tue, Th 1:00 – 1:45 or 2:00 – 2:45 in Electronic Classroom

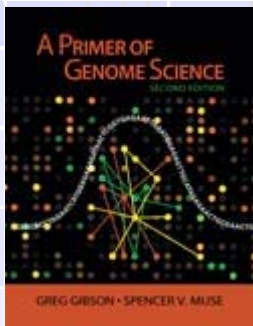
### Course Directors:

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TEXT: [A Primer of Genome Science](#), second edition.  
Gibson and Muse, Sinauer Associates Inc.

The course, which is intended to coordinate with and complement the core curriculum courses, provides a general introduction to genome science, covering genome-scale sequencing, analysis of variation, gene expression profiling, gene ontology, proteomics and metabolomics. Computational and statistical methods are used in hands-on electronic classroom exercises and in student projects.

**This year, the material will be taught in terms of a central theme: how functional genomics methods are used in research and clinical treatment of breast cancer.**

Grading is based on the use of computers for in-class exercises and take-home assignments; on brief biweekly quizzes, and on student group research projects. Teaching assistants will be available to help with the student research projects.