Genetics and Genomics

response, e.g., identifying all of the genes that are activated in response to infection with a particular pathogen

-graduate programs. Graduatestwi

a BS degree may pursue careers in medicine, genetic counseling, biotechnology, bioinformatics, forensics, or work as technicians in university, hospital, government, or industrial research laboratories.

GENERAL BIOLOGY COURSE REQUIREMENTS FOR THE BIOLOGY BS DEGREE

- 1. BIOL 2000 Molecules and Cells
- 2. BIOL 2010 Ecology and Evolution
- 3. BIOL 2040 Investigations in Molecular Cell Biology
- 4. Category A: Genetics and Genomics. Choose one course from the following
 - " BIOL 3050 Genetics
 - " BIOL 3060 Introduction Genetics
 - " BIOL 3150 Introduction to Genomics
- 5. Category B: Physiology and Organismal Biology. Choose one course from the following
 - " BIOL 3030 Comparative Vertebrate Physiology
 - " BIOL 3210 Plant Biology
 - " BIOL 4110 Ornithology
 - " BIOL 4330 Human Physiology
 - " BIOL 4450 Behavioral Ecology
- 6. One Advanced Experience course (see current listing on the Biology Checklist)

ADDITIONAL COURSE REQUIREMENTS TO COMPLETE A CONCENTRATION IN GENETICS AND GENOMICS

- 1. BIOL3050 Genetics (
- 2. Choose FIVE courses from the following list:

BIOL 2300 Biostatistics

BIOL 3150 Introduction to Genomics BIOL 4200 Introduction to Bioinformatics

BIOL 422@Research in Molecular Cell Biology

BIOL 4250 Population Genetics

BIOL 4400 Molecular Biology

BIOL 4570 Principles of Immunology

BIOL 4802 Research in Evolutionary Genomics

BIOL 4830 Research in MolecruBaiology Lab

BIOL 4870 Research in Molecular Genetics

BIOL 5040 Topics in Developmental Biology

BIOL 5060 Recombinant DNA Technology

BIOL 5210 Molecular Basis of Infectious Disease

BIOL 5430 Genomics and Personalized Medicine

BIOL 5700 Blogy of the Nucleus

See the following faculty for advice about course selection and/or post-