**Program of Study in Molecular Pathology and Immunology**

The first year of graduate study in biomedical sciences at Vanderbilt is through the Interdisciplinary Graduate Program. [provide link] During the first year of this program, students take a core curriculum composed of modules that emphasize cell biology, biochemistry, molecular biology, and integrated topics such as neuroscience, immunology, microbial pathogenesis, and molecular medicine. Students also participate in 4 seven week rotations in laboratories within any of the participating departments. At the end of the first year, students choose a department and a preceptor. Students electing to join the Molecular Pathology and Immunology program will generally complete their course work during their second year. Students enrolled in the M.D./ Ph.D. degrees program at Vanderbilt (Medical Scientist Training Program) [provide link] may elect graduate study in the Molecular Pathology and Immunology Program after completion of the required research rotations. Specifics of the Molecular Pathology and Immunology program are contained in the Molecular Pathology and Immunology Graduate Handbook [provide link].

**REQUIRED COURSES**

Foundations in Pathology, Microbiology and Immunology

Immunological, Cellular & Molecular Basis of Disease I & II

Research Proposals: Preparation & Critical Review

Seminar in Experimental Immunology & Pathology

Current Topics in Experimental Immunology & Pathology

**POSSIBLE ELECTIVES INCLUDE**

Lipoprotein Metabolism

Molecular Pathology of Extracellular Matrix

Foundations in Bacteriology

Foundations in Virology

Cancer Biology

Cancer Immunology