IMID 290R. Undergraduate Research. 1-6 Credits. (1-6 Ind; 12 cr max) On Demand PREREQUISITE: Sophomore standing. Directed undergraduate research. Course will address responsible conduct of research.

IMID 291. Special Topics. 1-3 Credits. (1-3 Lec; 12 cr max) On Demand Max 12 cr. PREREQUISITE: Course prerequisites as determined by each offering. Courses not required in any curriculum for which there is a particular one-time need, or given on a trial basis to determine acceptability and demand before requesting a regular course number.

IMID 292. Independent Study. 1-3 Credits. (1-3 Ind; 6 cr max) On Demand Max 6 cr. PREREQUISITE: Consent of instructor and approval of department head. Directed research and/or study on an individual basis.

IMID 452. Protein Biochemistry. 1 Credit. (Lab) On Demand PREREQUISITE: IBID series or consent of instructor. Principles and techniques involved in biochemical analysis of proteins.

IMID 475. Preveterinary Internship. 2-4 Credits. (2-4 Ind; 4 cr max) F,S,Su PREREQUISITE: Junior standing and consent of instructor. An individualized assignment arranged with an agency, business, or other organization to provide guided experience in the field.

IMID 475R. Preveterinary Internship. 2-4 Credits. (2-4 Ind; 4 cr max) F,S,Su PREREQUISITE: Junior standing and consent of instructor. An individualized assignment arranged with an agency, business, or other organization to provide guided experience in the field.

IMID 490R. Undergraduate Research. 1-6 Credits. (1 Ind; 12 cr max) F,S,Su Max 12 cr. Directed undergraduate research/creative activity which may culminate in a research paper, journal article, or undergraduate thesis. Course will address responsible conduct of research. May be repeated.

IMID 491. Special Topics. 1-4 Credits. (1-4 Lec; 12 cr max) On Demand Max 12 cr. PREREQUISITE: Course prerequisites as determined by each offering. Courses not required in any curriculum for which there is a particular one-time need, or given on a trial basis to determine acceptability and demand before requesting a regular course number.

IMID 492. Independent Study. 1-3 Credits. (1-3 Ind; 6 cr max) On Demand Max 6 cr. PREREQUISITE: Junior standing, consent of instructor, and approval of department head. Directed research and study on an individual basis.

IMID 498R. Biotech Internship. 4 Credits. (4 Ind) ON DEMAND PREREQUISITE: Junior standing, consent of instructor, and approval of department head. An individualized assignment arranged with an agency, business, or other organization to provide guided experience in the field.

IMID 499. Biotechnology Capstone. 2 Credits. (2 Sem) F,S PREREQUISITE: IMID 498. Senior capstone course. Participants in this seminar section will bring closure to the student’s required internship. Students will have the opportunity to refine their public speaking and writing skills through synthesis of the goals, progress, and outcome of their industrial or research laboratory experience. Exposure to many different types of internship outcomes will broaden the student’s perception of the disciplines which contribute to the field of biotechnology.

IMID 501. Exper Immunology/Pathology. 3 Credits. (3 Lec) 5 alternate years to be offered even years PREREQUISITE: BIOL 410. Recent advances in and history of immunochemistry, immunogenetics, immunopathology, molecular and cellular immunology. Cross-listed with Microbiology 525.

IMID 505. Eukaryotic Gene Regulation. 3 Credits. (3 Lec) 5 alternate years to be offered odd years PREREQUISITE: CHMY 442 and graduate standing. Students in this course study the fundamental mechanisms of eukaryotic gene expression and this knowledge is placed within the context of modern genomics approaches. The course is divided between traditional lectures and a review of current literature in genome science, functional genomics (mRNA expression), and proteomics. Students learn basic informatics skills through a hands-on analysis of genome data with an emphasis on what can, and cannot, be learned from genome data.

IMID 521 Laboratory Rotation I. 2 Credits. (1 Lab) F PREREQUISITE: Must be a first year IMID Graduate Student. An independent scientific project within a IMID research laboratory. Student should identify a question, master the necessary methods, collect and analyze data, and interpret how the data addresses the question. Final results are presented in a 15-minute departmental seminar.

IMID 522. Laboratory Rotation II. 2 Credits. (1 Lab) S PREREQUISITE: Must be a first year IMID Graduate Student. The IMID laboratory in which IMID 522 is performed must be different from the laboratories in which IMID 521 was performed. An independent scientific project within a IMID research laboratory. Student should identify a question, master the necessary methods, collect and analyze data, and interpret how the data addresses the question. Final results are presented in a 15-minute departmental seminar.

IMID 523. Laboratory Rotation III. 2 Credits. (1 Lab) S PREREQUISITE: Must be a first year IMID Graduate Student. The IMID laboratory in which IMID 523 is performed must be different from the laboratories in which IMID 521 and IMID 522 were performed. An independent scientific project within a IMID research laboratory. Student should identify a question, master the necessary methods, collect and analyze data, and interpret how the data addresses the question. Final results are presented in a 15-minute departmental seminar. An independent scientific project with a IMID research laboratory.

IMID 575. Professional Paper. 1-4 Credits. (1-4 Ind; 6 cr max) On Demand IND Maximum 6 cr. PREREQUISITE: Graduate Standing. A research or professional paper or project dealing with a topic in the field. The topic must have been mutually agreed upon by the student, the major advisor, and the graduate committee.

IMID 589. Graduate Consultation. 3 Credits. (3 Ind; max unlimited) F,S,Su PREREQUISITE: Master’s standing and approval of the Dean of Graduate Studies. This course may be used only by students who have completed all of their course work (and thesis, if on a thesis plan) but who need additional faculty or staff time or help.

IMID 590. Master’s Thesis. 1-10 Credits. (1-10 Ind; max unlimited) F,S,Su PREREQUISITE: Master’s standing.

IMID 591. Special Topics. 1-4 Credits. (1-4 Ind; 12 cr max) On Demand Max 12 cr. PREREQUISITE: Upper division courses and others as determined for each offering. Courses not required in any curriculum for which there is a particular one-time need, or given on a trial basis to determine acceptability and demand before requesting a regular course number.

IMID 592. Independent Study. 1-4 Credits. (1-4 Ind; 8 cr max) On Demand Max 6 cr. PREREQUISITE: Graduate standing, consent of instructor, approval of department head and Dean of Graduate Studies. Directed research and study on an individual basis.

IMID 594. Seminar. 1 Credit. (1 Sem; 4 cr max) F,S Max 4 cr. PREREQUISITE: Graduate standing or seniors by petition. Course prerequisites as determined for each offering. Topics offered at the graduate level which are not covered in regular courses.

IMID 690. Doctoral Thesis. 1-10 Credits. (1 Ind; max unlimited) F,S,Su PREREQUISITE: Doctoral standing.