Principles and concepts in plant taxonomy, which include identification, classification, nomenclature, discussion of major recent/modern systems, family characterization and field work methods. Course Information: Prerequisite(s): Consent of the instructor. Class Schedule Information: To be properly registered, students must enroll in one Lecture and one Lecture-Discussion.

PMPG 518. Correlative Phytochemistry. 2 hours.
Distributional correlation of well-defined groups of secondary phytoconstituents with existing plant classification systems as an aid in the search for biologically active natural products. Course Information: Prerequisite(s): PMPG 517.

PMPG 520. Enthnopharmacology Field Work. 4 hours.
Studies of plants used by primitive peoples as medicinal agents, in defined geographic areas, primarily through interviews with medicine men and the populace. Plant material will be collected for subsequent study. Course Information: Contingent on availability of funds for travel support. Prerequisite(s): PMPG 517 or consent of the instructor. Class Schedule Information: To be properly registered, students must enroll in one Laboratory and one Lecture-Discussion.

PMPG 521. Recent Advances in Pharmacognosy. 2 hours.
A review of recent progress in the chemistry, biosynthesis and biological properties of natural products. Course Information: Prerequisite(s): PMPG 511.
PMPG 522. Laboratory Techniques in Biomolecular Sciences I. 3 hours.
Laboratory research rotations as assigned by the Biomolecular Sciences faculty in the three laboratories of the Center for Biomolecular Sciences in the College of Pharmacy. Course Information: Prerequisite(s): Consent of the instructor.

PMPG 523. Laboratory Techniques in Biomolecular Sciences II. 3 hours.
In a continuation of PMPG 522 students will perform laboratory research rotations as assigned by the Biomolecular Sciences track faculty in the laboratories of the Center for Biomolecular Sciences in the College of Pharmacy. Course Information: Prerequisite(s): PMPG 522 or consent of the instructor.

PMPG 534. Dental and Medical Anthropology Within Human Evolution. 1-3 hours.
Studies the biological and physical anthropology of hominid teeth and the craniofacial complex with relevant medical anthropology, ethnopharmacology, forensic sciences, and paleo-pathology topics. Course Information: Same as ANTH 534 and OSCI 534. Field work required. A lab experience, independent study and a research paper is required for 3 hours of credit. Prerequisite(s): Graduate standing and consent of the instructor.

PMPG 540. Marine Natural Products. 2 hours.
Expose graduate students to field of marine natural product chemistry. Course will include examples of marine antineoplastic agents, marine toxins, and other pharmaceutically relevant marine natural products from various marine organisms. Course Information: May be repeated to a maximum of 6 hours.

PMPG 553. Cancer Biology and Therapeutics. 2 hours.
Fundamentals of cancer biology with emphasis on biological, hormonal and chemotherapeutic drug therapies currently used and in development. Specific treatment approaches to breast, ovarian, prostate and colon cancers will be explored. Course Information: Same as BPS 553 and MDCH 553. Prerequisite(s): Consent of the instructor. Recommended background: Molecular and Cellular Biology.

PMPG 565. Special Projects in Pharmacognosy. 1-3 hours.
Overview of current research topics of interest in pharmacognosy: potential areas-ethnomedicine, biological evaluation, dietary supplements, taxonomy, chemotaxonomy, organism propagation, and applications of contemporary analytical techniques. Course Information: May be repeated up to 3 time(s). Prerequisite(s): Completion of the first year of the program.

PMPG 569. Predictive Strategies in Pharmacognosy. 2 hours.
Consideration of the methods employed for the selection of plants that are most likely to yield biologically active compounds. Course Information: Prerequisite(s): Demonstration of competency in organic chemistry, botany and pharmacology.

PMPG 590. Laboratory Techniques in Pharmacognosy I. 2 hours.
Perform laboratory research rotations as assigned by Pharmacognosy drug discovery track faculty of Program for Collaborative Research in Pharmaceutical Sciences (PCRPS). Course Information: Prerequisite(s): Credit or concurrent registration in PMPG 510 or consent of the instructor.