PMD—DOCTOR OF PHARMACY

BOUVÉ COLLEGE OF HEALTH SCIENCES

PMD G241 Therapeutics 2 4 SH
Continues PMD U539. Emphasizes the medical management of the disease states most frequently encountered in practice; considerations and precautions that are required in the proper selection and dosing of drugs most frequently used in these disease states; and the recognition of clinically significant, efficacious, and/or toxic drug effects. Topics include disease state management, endocrinology, and renal diseases. Coreq. PMD G242 and PMD G243. Prereq. PMD U539 and fifth-year PharmD standing.

PMD G242 Therapeutics 3 4 SH
Continues PMD G241. Emphasizes the medical management of the disease states most frequently encountered in practice; considerations and precautions that are required in the proper selection; and dosing of drugs most frequently used in these disease states; and the recognition of clinically significant, efficacious, and/or toxic drug effects. Topics include cardiovascular diseases, gastrointestinal diseases, and diseases of the critically ill. Coreq. PMD G241 and PMD G243. Prereq. PMD U539 and fifth-year PharmD standing.

PMD G243 Therapeutics Seminar 2-3 1 SH
Accompanies PMD G241 and PMD G242. Discusses clinical cases. Students are expected to contribute to discussions of cases and lead discussions involving the entire group. Emphasis is on integration and problem solving. Students are encouraged to verbalize, integrate, and reinforce information learned from lectures, readings, and previous course work to solve a given clinical problem. Coreq. PMD G241 and PMD G242.

PMD G244 Therapeutics 4 4 SH
Continues PMD G242. Emphasizes the medical management of the disease states most frequently encountered in practice; considerations and precautions that are required in the proper selection and dosing of drugs most frequently used in these disease states; and the recognition of clinically significant, efficacious, and/or toxic drug effects. Topics include infectious diseases, pediatrics, and geriatrics. Coreq. PMD G245 and PMD G246. Prereq. PMD G241, PMD G242, and fifth-year PharmD standing.

PMD G245 Therapeutics 5 4 SH
Continues PMD G244. Emphasizes the medical management of the disease states most frequently encountered in practice; considerations and precautions that are required in the proper selection and dosing of drugs most frequently used in these disease states; and the recognition of clinically significant, efficacious, and/or toxic drug effects. Topics include neurology, psychiatry, hematology, and oncology. Coreq. PMD G244 and PMD G246. Prereq. PMD G241, PMD G242, and fifth-year PharmD standing.

PMD G246 Therapeutics Seminar 4-5 1 SH
Accompanies PMD G244 and PMD G245. Discusses clinical cases. Students are expected to contribute to discussions of cases and lead discussions involving the entire group. Emphasis is on integration and problem solving. Students are encouraged to verbalize, integrate, and reinforce information learned from lectures, readings, and previous course work to solve a given clinical problem. Coreq. PMD G244 and PMD G245.

PMD G250 Pharmacy Care Management 3 SH
Focuses on the managerial and administrative skills required by a contemporary pharmacist practicing in either a community or hospital setting. Covers classical management principles of planning, decision making, organizing, hiring, and controlling. Case study methods are used as an interactive teaching tool. Also covers pertinent current events. Prereq. PMD U350 and fifth-year PharmD standing.

PMD G270 Pharmacoeconomics 4 SH
Compares and contrasts the principles and applications of benefit-cost analysis, cost-effectiveness analysis, and cost-utility analysis in the evaluation of pharmaceutical products, drug delivery systems, and health-care organization structure. Techniques of cost analyses and outcomes assessment are applied to drug-drug evaluations. Working in groups, students are required to conduct an original, modeled pharmacoeconomic decision analytic study and present it in a platform PowerPoint presentation, article suitable for journal submission, and professional poster. Prereq. PMD G241, PMD G242, and fifth-year PharmD standing.

PMD G440 Internal Medicine Advanced Practice Experience 6 SH
Applies principles of pathophysiology, therapeutics, and communication to the pharmacy-care management of individual patients in the hospital setting. In collaboration with other members of the health-care team, and under the supervision of a clinical preceptor, offers identification of appropriate drug therapy and monitoring requirements for common pathophysiologic processes, and, when indicated, modification of population-based treatment strategies based on the unique characteristics of individual patients.
PMD G441 Acute Care Advanced Practice Experience 6 SH
Applies principles of pathophysiology, therapeutics, and communication to the pharmacy-care management of individual patients. In collaboration with other members of the health-care team, and under the supervision of a clinical preceptor, offers identification of appropriate drug therapy and monitoring requirements for common pathophysiologic processes, and, when indicated, modification of population-based treatment strategies based on the unique characteristics of individual patients.

PMD G442 Ambulatory Care Advanced Practice Experience 6 SH
Applies principles of pathophysiology, therapeutics, and communication to the pharmacy-care management of individual patients in an ambulatory clinic environment. In collaboration with other members of the health-care team, and under the supervision of a clinical preceptor, offers identification of appropriate drug therapy and monitoring requirements for common pathophysiologic processes, and, when indicated, modification of population-based treatment strategies based on the unique characteristics of individual patients.

PMD G443 Community Advanced Practice Experience 6 SH
Applies principles of pathophysiology, therapeutics, and communication to the pharmacy-care management of individual patients in a community setting. In collaboration with other members of the health-care team, and under the supervision of a clinical preceptor, offers identification of appropriate drug therapy and monitoring requirements for common pathophysiologic processes, and, when indicated, modification of population-based treatment strategies based on the unique characteristics of individual patients. Prereq. PMD G440.

PMD G444 Internal Medicine Elective Advanced Practice Experience 6 SH
Applies principles of pathophysiology, therapeutics, and communication to the pharmacy-care management of individual patients in the hospital setting. In collaboration with other members of the health-care team, and under the supervision of a clinical preceptor, offers identification of appropriate drug therapy and monitoring requirements for common pathophysiologic processes, and, when indicated, modification of population-based treatment strategies based on the unique characteristics of individual patients. Prereq. PMD G441.

PMD G445 Ambulatory Care Elective Advanced Practice Experience 6 SH
Applies principles of pathophysiology, therapeutics, and communication to the pharmacy-care management of individual patients in an ambulatory clinic environment. In collaboration with other members of the health-care team, and under the supervision of a clinical preceptor, offers identification of appropriate drug therapy and monitoring requirements for common pathophysiologic processes, and, when indicated, modification of population-based treatment strategies based on the unique characteristics of individual patients. Prereq. PMD G443.

PMD G446 Psychiatry Advanced Practice Experience 6 SH
Applies principles of pathophysiology, therapeutics, and communication to the pharmacy-care management of individual patients under psychiatric care. In collaboration with other members of the health-care team, and under the supervision of a clinical preceptor, offers identification of appropriate drug therapy and monitoring requirements for common pathophysiologic processes, and, when indicated, modification of population-based treatment strategies based on the unique characteristics of individual patients.

PMD G447 Community Elective Advanced Practice Experience 6 SH
Applies principles of pathophysiology, therapeutics, and communication to the pharmacy-care management of individual patients in a community setting. In collaboration with other members of the health-care team, and under the supervision of a clinical preceptor, offers identification of appropriate drug therapy and monitoring requirements for common pathophysiologic processes, and, when indicated, modification of population-based treatment strategies based on the unique characteristics of individual patients.

PMD G448 Long Term Care Advanced Practice Experience 6 SH
Applies principles of pathophysiology, therapeutics, and communication to the pharmacy-care management of individual patients in a nursing home or rehabilitation center. Under the supervision of a clinical preceptor and, when appropriate, in conjunction with other members of the health-care team, offers identification of appropriate drug therapy and monitoring requirements for common pathophysiologic processes, and, when indicated, modification of population-based treatment strategies based on the unique characteristics of individual patients.
PMD G449 Geriatrics Advanced Practice Experience 6 SH
Applies principles of pathophysiology, therapeutics, and communication to the pharmacy-care management of individual patients in a geriatric practice setting. Under the supervision of a clinical preceptor, and, when appropriate, in conjunction with other members of the health-care team, offers identification of appropriate drug therapy and monitoring requirements for common pathophysiologic processes, and, when indicated, modification of population-based treatment strategies based on the unique characteristics of individual patients.

PMD G450 Pediatrics Advanced Practice Experience 6 SH
Applies principles of pathophysiology, therapeutics, and communication to the pharmacy-care management of individual patients in a pediatric practice setting. Under the supervision of a clinical preceptor, and, when appropriate, in conjunction with other members of the health-care team, offers identification of appropriate drug therapy and monitoring requirements for common pathophysiologic processes, and, when indicated, modification of population-based treatment strategies based on the unique characteristics of individual patients.

PMD G451 Neonatology Advanced Practice Experience 6 SH
Applies principles of pathophysiology, therapeutics, and communication to the pharmacy-care management of individual patients in a neonatal practice setting. Under the supervision of a clinical preceptor, and, when appropriate, in conjunction with other members of the health-care team, offers identification of appropriate drug therapy and monitoring requirements for common pathophysiologic processes, and, when indicated, modification of population-based treatment strategies based on the unique characteristics of individual patients.

PMD G452 Critical Care Advanced Practice Experience 6 SH
Applies principles of pathophysiology, therapeutics, and communication to the pharmacy-care management of individual patients in a critical-care practice setting. Under the supervision of a clinical preceptor, and, when appropriate, in conjunction with other members of the health-care team, offers identification of appropriate drug therapy and monitoring requirements for common pathophysiologic processes, and, when indicated, modification of population-based treatment strategies based on the unique characteristics of individual patients. Prereq. PMD G440 or PMD G441.

PMD G453 Surgery Advanced Practice Experience 6 SH
Applies principles of pathophysiology, therapeutics, and communication to the pharmacy-care management of individual patients in a surgical practice setting. Under the supervision of a clinical preceptor, and, when appropriate, in conjunction with other members of the health-care team, offers identification of appropriate drug therapy and monitoring requirements for common pathophysiologic processes, and, when indicated, modification of population-based treatment strategies based on the unique characteristics of individual patients.

PMD G454 Cardiology Advanced Practice Experience 6 SH
Applies principles of pathophysiology, therapeutics, and communication to the pharmacy-care management of individual patients in a cardiology practice setting. Under the supervision of a clinical preceptor, and, when appropriate, in conjunction with other members of the health-care team, offers identification of appropriate drug therapy and monitoring requirements for common pathophysiologic processes, and, when indicated, modification of population-based treatment strategies based on the unique characteristics of individual patients.

PMD G455 Pharmacokinetics Advanced Practice Experience 6 SH
Applies principles of pathophysiology, therapeutics, and communication to the pharmacy-care management of individual patients on a pharmacokinetic consult service. Under the supervision of a clinical preceptor, and, when appropriate, in conjunction with other members of the health-care team, offers identification of appropriate drug therapy and monitoring requirements for common pathophysiologic processes, and, when indicated, modification of population-based treatment strategies based on the unique characteristics of individual patients.

PMD G456 Drug Information Advanced Practice Experience 6 SH
Applies drug information skills to site-specific drug information requests under the supervision of a clinical preceptor, and, when appropriate, in conjunction with other members of the site team. Using appropriate sources, the student analyzes drug information findings, such as dosing, monitoring, indications, efficacy, and adverse drug reactions.

PMD G457 Oncology Advanced Practice Experience 6 SH
Applies principles of pathophysiology, therapeutics, and communication to the pharmacy-care management of individual patients in an oncology practice setting. Under the supervision of a clinical preceptor, and, when appropriate, in conjunction with other members of the health-care team, offers identification of appropriate drug therapy and monitoring requirements for common pathophysiologic processes, and, when indicated, modification of population-based treatment strategies based on the unique characteristics of individual patients.
PMD G458 Drug Utilization Advanced Practice Experience 6 SH
Identifies topics and design of methodology for drug-use evaluation as well as completion of data collection, data evaluation, and presentation of results under the supervision of a clinical preceptor, and, when appropriate, in conjunction with other members of the health-care team.

PMD G459 Home Health Advanced Practice Experience 6 SH
Applies principles of pathophysiology, therapeutics, and communication to the pharmacy-care management of individual patients in a home health-care practice setting. Under the supervision of a clinical preceptor, and, when appropriate, in conjunction with other members of the health-care team, offers identification of appropriate drug therapy and monitoring requirements for common pathophysiologic processes, and, when indicated, modification of population-based treatment strategies based on the unique characteristics of individual patients.

PMD G460 Nutritional Support Advanced Practice Experience 6 SH
Applies principles of pathophysiology, therapeutics, and communication to the pharmacy-care management of individual patients on a nutritional support consult service. Under the supervision of a clinical preceptor, and, when appropriate, in conjunction with other members of the health-care team, offers identification of appropriate drug therapy and monitoring requirements for common pathophysiologic processes, and, when indicated, modification of population-based treatment strategies based on the unique characteristics of individual patients.

PMD G461 Infectious Disease Advanced Practice Experience 6 SH
Applies principles of pathophysiology, therapeutics, and communication to the pharmacy-care management of individual patients on an infectious disease consult service. Under the supervision of a clinical preceptor, and, when appropriate, in conjunction with other members of the health-care team, offers identification of appropriate drug therapy and monitoring requirements for common pathophysiologic processes, and, when indicated, modification of population-based treatment strategies based on the unique characteristics of individual patients.

PMD G462 Pharmacy Industry Advanced Practice Experience 6 SH
Focuses on the application of regulatory affairs and health-care principles in the pharmaceutical industry. Under the supervision of a preceptor, and, when appropriate, in conjunction with other members of the site team, participates in appropriate activities, such as drug research and development, marketing, medical affairs, regulatory affairs, and information service.

PMD G463 Pharmacy Administration Advanced Practice Experience 6 SH
Applies health-care and management principles, with emphasis on pharmacy administration, under the supervision of a preceptor, and, when appropriate, in conjunction with other members of the site team.

PMD G464 Regulatory Advanced Practice Experience 6 SH
Participates in appropriate activities including but not limited to principles of and compliance with pharmacy law and review of regulations governing the FDA’s mandatory reporting of adverse drug reactions under the supervision of a preceptor, and, when appropriate, in conjunction with other members of the site team. In addition, students may have the opportunity to be given a step-by-step introduction to public record laws, Board Regulations at 247 CMR, and pharmacy statutes at Massachusetts General Laws, Chapter 112, 24(A)–42(A).

PMD G465 Managed Care Advanced Practice Experience 6 SH
Applies principles of pathophysiology, therapeutics, and communication to the pharmacy-care management of individual patients in a managed-care practice setting. Under the supervision of a clinical preceptor, and, when appropriate, in conjunction with other members of the health-care team, offers identification of appropriate drug therapy and monitoring requirements for common pathophysiologic processes, and, when indicated, modification of population-based treatment strategies based on the unique characteristics of individual patients.

PMD G466 Transplantation Advanced Practice Experience 6 SH
Applies principles of pathophysiology, therapeutics, and communication to the pharmacy-care management of individual patients in a transplantation unit. Under the supervision of a clinical preceptor, and, when appropriate, in conjunction with other members of the health-care team, offers identification of appropriate drug therapy and monitoring requirements for common pathophysiologic processes, and, when indicated, modification of population-based treatment strategies based on the unique characteristics of individual patients.

PMD G467 Directed Practice Advanced Practice Experience 6 SH
Offers nontraditional experience with an approved preceptor at an appropriate site. Based on availability.

PMD G468 International Advanced Practice Experience 6 SH
Provides an international experience with an approved preceptor at an appropriate site. Based on availability.
PMD U101 Introduction to the Profession of Pharmacy 1 SH
Introduces the profession of pharmacy in this one-credit course. Covers pharmacists’ responsibilities, pharmacy organizations, ethical issues related to health care, and the education and training of pharmacists. Offers students the opportunity to learn about the role of the pharmacist within different health-care systems. Guest speakers, from several areas of pharmacy practice, provide firsthand information on career options. Prereq. PharmD students or permission of instructor.

PMD U201 Introduction to Pharmacy Practice 1 SH
Provides students with the knowledge and skills used during the first cooperative education assignment. Topics include the top one hundred medications, pharmacy calculations, pharmacy law, interpreting prescriptions and medication orders, and sterile products. Prereq. Second-year PharmD standing.

PMD U310 Communication Skills for Pharmacists 3 SH
Designed to provide pharmacy students with various theoretical frameworks and principles for understanding communication processes and the need for practical tools to engage in effective interpersonal communication when providing medication therapy management to diverse patient populations. Supports a client-centered approach to how students assess, adapt, and evaluate various types of communications within a variety of pharmacy settings. Offers students an opportunity to learn core skills: listening; asking questions; empathy; understanding and managing conflict, confusion, nonverbal behavior; detecting and intervening to improve adherence; facilitating behavioral change; tailoring communication to special patient populations; leading and facilitating group communication; collaborating with other professionals; analyzing organizational communication in pharmacies; and delivering a professional presentation. Seeks to provide the student with an awareness of the communication issues facing pharmacy practice at the interpersonal, interprofessional, and organizational levels. Coreq. PMD U311. Prereq. Second-year PharmD standing.

PMD U311 Lab for PMD U310 1 SH
Supports a client-centered approach to how pharmacy students assess, adapt, and evaluate various types of communications within pharmacy settings. Specifically, students have an opportunity to learn and practice core skills: listening; asking questions; empathy; understanding and managing confusion, conflict, and nonverbal behavior; facilitating behavioral change; tailoring communication to special patient populations; and delivering a professional presentation. During laboratory sessions, students have an opportunity to apply course concepts in group discussions, interacting with standardized patients, watching videos, and various written and oral exercises. Designed to provide students with practical tools to engage in effective interpersonal communication when providing medication therapy management to diverse patient populations. Coreq. PMD U310.

PMD U350 Health-Care Systems 3 SH
Examines the evolution of the health-care system in the United States, from the early forms of organized institutional care to the dynamic, increasingly integrated, and managed-care system of present health-care delivery. Examines the interaction of regulatory, economic, political, social, and ethical aspects of the health-care system, with emphasis on issues related to pharmacy practice. Current proposals for health-care and drug-related reform and regulation are considered. Considers the impact and consequences of action in one era on the structure and function of health care in later years. Prereq. ENG U306 and third-year PharmD standing.

PMD U401 Pathophysiology 4 SH
Examines the mechanisms of human disease, emphasizing fundamental principles of cellular biology. Dedicates early sessions to understanding normal cell biology, cell vulnerabilities, and cellular responses to injury. Discusses systemic responses to injury including inflammation, immunity, and hemostasis. A detailed discussion of oncogenesis is followed by a system-by-system review of disease states. Prereq. PSC U301, PSC U303, and fourth-year PharmD standing.

PMD U440 Self-Care Therapeutics 4 SH
Examines the types of medications available without a prescription, traditionally referred to as over-the-counter (OTC). The class is team-taught by the pharmacy practice faculty, and students are exposed to several different teaching styles: didactic teaching, small group discussions/projects, large classroom case discussions, and hands-on learning (for example, using a variety of glucometers, understanding/performing a monofilament exam, or performing subcutaneous injection technique). Covers the recommendation/selection of a specific nonprescription product that would relieve signs and symptoms of common self-treatable illnesses and proper patient education (proper dose, directions for use, possible adverse effects, and contraindications of these medications). Prereq. PMD U310, ENG U306, and fourth-year PharmD standing.

PMD U450 Research Methodology and Biostatistics 4 SH
Covers aspects of experimental design and hypothesis testing. Uses critical reading of clinical trials, observational studies, and problem sets to illustrate principles of research design, conduct, and analysis. Discusses statistical tests that are appropriate for the selected study design. Students are required to complete a research protocol. Prereq. Fourth-year PharmD standing.
PMD U510 Therapeutic Drug Monitoring and Applications 2 SH
Covers the developing, monitoring, and modifying of drug dosage regimens as applied in clinical practice. Examines the use of pharmacokinetic factors influencing the selection of dosage regimens for various therapeutic drug categories. Develops the application of test performance characteristics in interpreting drug-serum concentrations and the application of these principles and concepts to the monitoring of drug therapy. Prereq. PSC U430.

PMD U530 Jurisprudence 3 SH
Covers all federal and state laws and regulations that affect the practice of pharmacy. Sources of law discussed include the U.S. Constitution, statutes, administrative regulations, and case law. Introduces federal and state administrative agencies that regulate pharmacy including the Drug Enforcement Administration (DEA), Food and Drug Administration (FDA), Consumer Products Safety Commission (CPSC), Massachusetts Board of Registration in Pharmacy, and Massachusetts Department of Public Health. Students research a pharmacy case decided by a court and give an oral presentation. Centers on the individuals who operate a pharmacy: pharmacists, pharmacy technicians, and pharmacy interns; the workplaces where they perform their duties: pharmacy, pharmacy department, hospital, restricted pharmacy, managed care, nuclear pharmacy, and wholesale businesses; and duties performed by pharmacy personnel: dispensing medication and counseling patients. Prereq. PMD U350 and fourth-year PharmD standing.

PMD U539 Therapeutics 1 3 SH
Emphasizes the medical management of the disease states most frequently encountered in practice, considerations and precautions that are required in the proper selection and dosing of drugs most frequently used in these disease states, and the recognition of clinically significant, efficacious, and/or toxic drug effects. Topics include the clinical approach to pharmaceutical care and drug-related problems, and disease state management. Coreq. PMD U540. Prereq. Fourth-year PharmD standing.

PMD U540 Therapeutics Seminar 1 1 SH
Accompanies PMD U539. Discusses clinical cases. Students are expected to contribute to discussions of cases and lead discussions involving the entire group. Emphasis is on integration and problem solving. Students are encouraged to verbalize, integrate, and reinforce information learned from lectures, readings, and previous course work to solve a given clinical problem. Coreq. PMD U539.

PMD U560 Drug Information and Evaluation 3 SH
Allows students to develop the skills necessary to become effective providers of drug information. An effective provider assesses and evaluates drug information needs, and evaluates, communicates, and applies data from the published literature and other sources to optimize patient care. These skills are developed by using didactic instruction, providing responses to several drug information requests, and writing one drug information paper. Prereq. ENG U306 and PMD U450.

PMD U565 Pharmaceutical Care Practice 1 1.5 SH
Offers a simulation of the problems and activities commonly seen in both ambulatory/community and institutional pharmacy practice. Provides students with an opportunity to receive patients with drug-related needs and problems to be resolved. Requires students to complete activities to resolve the need or problem for their patient. Also requires students to provide information to both health professionals and patients with regard to drug therapy. Students have an opportunity to use computers to maintain patient profiles, document drug-related problems, and find appropriate resolutions to problems. Coreq. PMD U566. Prereq. PMD U539.

PMD U566 Lab for PMD U565 0.5 SH
Accompanies PMD U565. Complements and reinforces course content through various hands-on activities. Coreq. PMD U565.

PMD U575 Pharmaceutical Care Practice 2 1.5 SH
Designed to provide students with functional knowledge and skills in the area of physical assessment. Teaches students through a variety of methods: didactic teaching, videos/simulators, classroom discussions, and hands-on learning. Offers students an opportunity to learn to perform a medical history (medication history) and a general assessment of a patient; perform vital signs on a patient (weight, blood pressure, pulse, and respiration); and interpret the physical assessment as documented by other clinicians. Coreq. PMD U576. Prereq. PMD G241 and PMD G242.

PMD U576 Lab for PMD U575 0.5 SH
Accompanies PMD U575. Complements and reinforces course content through various hands-on activities. Coreq. PMD U575.

PMD U580 Drug Interactions 2 SH
Designed as an elective course to enhance students’ knowledge and skills regarding drug interactions. Course lectures review commonly encountered drug interactions, with emphasis on the mechanism and clinical significance of interactions. Class discussions and assignments emphasize a scientific approach to identifying and evaluating potential interactions and recommending appropriate, patient-specific management of a given interaction. Prereq. Pharmacy majors only with fifth-year standing.
PMD U581 Cancer Chemotherapy 3 SH
Emphasizes the role of chemotherapy in the management of malignant disease. Discussions include an in-depth review of specific antineoplastic agents, a review of specific malignancies, and related topics such as management of nausea and vomiting in cancer patients, hypercalcemia of malignancy, malignant pleural effusions, treatment of bone marrow depression, and unproven methods of cancer treatment. Prereq. Pharmacy majors only with fifth-year standing.

PMD U585 Research Methods in Health Systems 4 SH
Exposes students to the research methods that health system pharmacists use most often when conducting research and builds on the content of PMD U350, PMD U450, and PMD U560. Incorporates a seminar discussion format led by health-care system-based pharmacists actively involved in clinical research and helps prepare students for careers or postgraduate training programs (e.g., residencies) in health systems. Faculty use published studies, live patient databases, and descriptions of their current research projects to illustrate the topics in each session. Prereq. PMD U350, PMD U450, and PMD U560.

PMD U921 Directed Study 1 SH
PMD U922 Directed Study 2 SH
PMD U923 Directed Study 3 SH
PMD U924 Directed Study 4 SH
Offers independent work under the direction of members of the department on a chosen topic. Course content depends on instructor. Prereq. Permission of instructor.

PMD U964 Research 4 SH
Extends current knowledge or offers novel insights through faculty-directed and supervised individual undergraduate research or creative projects. The project must be designed in concert with and obtain formal prior approval from relevant faculty and program director. Prereq. Permission of instructor.

PMD U970 Junior/Senior Honors Project 1 4 SH
Focuses on in-depth project in which a student conducts research or produces a product related to the student’s major field. Culminating experience in the University Honors Program. Combined with Junior/Senior Project 2 or college-defined equivalent for 8-credit honors project. Prereq. Honors program participation.

PMD U971 Junior/Senior Honors Project 2 4 SH
Focuses on second semester of in-depth project in which a student conducts research or produces a product related to the student’s major field. Culminating experience in the University Honors Program. Prereq. PMD U970 and honors program participation.