

DOCTOR OF PHARMACY PROFESSIONAL PROGRAM

Emphasis Designation Requirements:

- Electives: **Pharmacy total requirement for electives is 8 hours.** For emphasis designation, > 4 of those hours are completed within the specific emphasis designation. A list of example electives to fulfill the emphasis designation requirement are provided; however, a student may identify additional electives that fulfill the objectives of the emphasis designation.
- Co-curricular: Complete one co-curricular activity in specified emphasis designation.
- Extracurricular Emphasis Designation Requirements: Concept Development Training, Technical Writing Training, and additional track specific trainings such as IRB Training (CITI), and Data Management for Clinical Research to be specified. Enrolled students would be required to complete these trainings prior to P4 year in order to progress in emphasis designation.
- APPE Rotation: Require at least one rotation within the emphasis area. Student can choose from existing options or set up a new rotation while working with the Office of Experiential Learning (OEL).
- Capstone: Student to submit concept map/proposal for capstone project during semester 6 (P3 year) to Emphasis Designation Oversight Committee.
 - The capstone is an opportunity for students to apply the training received during the emphasis designation curriculum to a project. Projects are developed by the student. The capstone is started, completed, and presented during the P4 year.
 - i. Capstone will require identification of a project mentor. The mentor may be a Pharmacy faculty, alumni, or other identified expert in a particular field. The mentor in the emphasis area provides direction and support to the student while completing the capstone project.
 - ii. Implemented, completed and presented within the P4 year while students are completing APPE rotations (Summer to Spring).
 - iii. Presented to the emphasis designation oversight committee in a seminar-like fashion to coincide with site specific Research Day
 - iv. The capstone will not be tied to credit hours
 - v. Examples of capstones include but are not limited to business proposal, research project, review manuscript, implementation of a community outreach project.

Business and Administration Emphasis

Provides students the fundamentals of business administration such as finance, accounting and marketing and delve into specialized pharmacy administration topics. Students will solve problems using data, and develop communication and managerial skills. The emphasis track provides an opportunity to enhance skills related to managing pharmacy operations no matter the setting (outpatient, independent, inpatient) and benefit those with an entrepreneur inclination.

| Code | Title | Credits |
|---------------------------|--|---------|
| Example Electives: | | |
| PHARM 7427 | Hospital Pharmacy | 2 |
| PHARM 7339 | Advanced Community Pharmacy: Emphasis on Entrepreneurship | 2 |
| ACCTNG 211 | Introduction To Managerial Accounting | 3 |
| ENT 301 | Entrepreneurship Toolkit | 3 |
| ENT 326 | Creativity, Innovation, and Problem Solving | 3 |
| ENT 341 | Technology Entrepreneurship | 3 |
| ENT 364 | Entrepreneurial Management and Innovation | 3 |
| ENT 412 | Entrepreneurial Finance | 3 |
| HLSC 430 | Health Program Management | 3 |
| HLSC 470 | Technology, Marketing and Media in Health | 3 |
| HLSC 480 | Leadership and Management in Health Professions | 3 |
| HLTH-ADM 5571 | Financial Management Issues of Health and Human Services Organizations | 3 |
| HLTH-ADM 5578 | Data Analysis for Health Care Managers | 3 |
| MGT 5501 | International Business Environment | 1.5 |
| MGT 5507 | Human Capital Management | 1.5 |

Public Health and Epidemiology Emphasis

Provides students with an epidemiological approach to public health. Students will be exposed broadly to epidemiology, biostatistics, and environmental influences on health, public health planning, and health services. The emphasis track provides an opportunity to complement clinical assessment skills through disease tracking, discovering solutions to public health problems, and identify of resources for patients and clinics.

| Code | Title | Credits |
|---------------------------|---|---------|
| Example Electives: | | |
| PHARM 7223 | Rural Health and Agricultural Medicine | 2 |
| HLSC 410 | Epidemiology | 3 |
| HLSC 419 | Introduction to Social Epidemiology | 1 |
| HLSC 450 | Urban Health | 3 |
| HLSC 460 | Global Health | 3 |
| MEDB 5501 | Applied Biostatistics I | 3 |
| MEDB 5502 | Applied Biostatistics II | 3 |
| MEDB 5511 | Principles and Applications of Epidemiology | 3 |
| MEDB 5525 | Social Determinants of Health | 3 |
| PBHL 158 | Public Health Principles | 3 |
| PBHL 458 | Communicable Disease Investigation | 3 |

Research (Clinical, Benchtop, Social/Administrative) Emphasis

Provides students with the fundamentals of developing and organizing research ideas for clinical, benchtop, and social/administrative research. Students will explore approaches to problem-solving, research methodology, scientific method of analysis. Students gain direct experiences with different types of research and gather valuable skills for post-graduate education.

| Code | Title | Credits |
|---------------------------|--|---------|
| Example Electives: | | |
| PHARM 7231 | Drug Development and Pharmaceutical Career Opportunities | 2 |
| HLSC 476 | Research Methods in Health Sciences | 3 |
| MEDB 5510 | Clinical Research Methodology | 3 |
| MEDB 5512 | Clinical Trials | 3 |
| MEDB 5513 | Overview of Health Services Research | 3 |
| SOCIOL 362 | Methods Of Sociological Research | 3 |