

Year 3

Theme: Medication Safety

Block 8 (16 wk)

Block 9 (21 wk)

**Pharmacotherapeutics & Practice of Pharmacy
I**

**Pharmacotherapeutics & Practice of Pharmacy
II**

Medication Performance & Patient Safety I

Medication Performance & Patient Safety II

Pharmacy Law and Ethics II

Pharmacy Law and Ethics III

Professional Elective

Professional Elective

**Pharmacist Patient Care
Experiences**

**Pharmacist Patient Care
Experiences**

**Pharmacist Patient Care
Experiences**

Course: Pharmacotherapeutics and Practice of Pharmacy I

Year, Block Offered: Year 3, Block 8

Hours Per Week: 12

Duration in Weeks: 16

Step in Curriculum: 4

Course Description: This two-part course deals with drug therapy management of diseases and conditions associated with specific organ systems. The emphasis in Part I of this course is on the cause, prevention, pathophysiology, pharmacology of targeted drugs, development of therapeutic plans, and monitoring of diseases. Problem solving strategies will be applied to realistic patient cases that incorporate applications of clinical pharmacokinetics, the use of nonprescription drugs and devices, cardiopulmonary resuscitation and basic life support, the prevention of medical errors, and health promotion. Pharmacy students will work with medical students to learn the physical assessment of patients for purposes of drug therapy monitoring.

Objectives: By the end of the course, the student will be able to:

1. discuss the causes, pathophysiology, and management of diseases.
2. discuss health promotion, disease management, and social factors related to pharmacotherapeutics.
3. distinguish between application of pharmacotherapeutic principles in treating geriatric and pediatric patients.
4. demonstrate an understanding of clinical pharmacokinetics, the use of nonprescription drugs and devices, and the prevention of medication errors.
5. perform the techniques of cardiopulmonary resuscitation and basic life support.
6. perform the physical assessment necessary for evaluating and monitoring drug therapy of the patient's condition.

Director: Robb McGory, Pharm.D., Pharmacy Practice

Co-Director: TBD

HPE Coordinator:

Course:	Medication Performance and Patient Safety I Recitation
Year, Block Offered:	Year 3, Block 8
Hours Per Week:	3
Duration in Weeks:	16
Step in Curriculum:	4
Course Description:	Multiple case studies of simple or complex diseases will be used to gain experience in generating patient care plans. Students will use a combination of primary literature, knowledge of disease processes and pharmacokinetic principles to generate safe and effective therapeutic regimens. Significant emphasis will be placed on adequate monitoring of disease progression, drug induced disorders and judicious use of lab orders. Students will work in groups as well as individually to produce viable care plans. Students will defend their plans to faculty members during small group recitations as well as to the entire class. Students will occasionally work with medical students to develop physical assessment plans, diagnostic tests and invasive procedures to optimize the treatment plan.
Objectives:	By the end of the course, the student will be able to: <ol style="list-style-type: none">1. categorize patient symptoms and diagnostic findings into categories reflecting specific disease processes2. prioritize patient complaints into acute and chronic issues3. summarize a patient's medical conditions that would affect drug selection, dosage and need for monitoring outcomes4. synthesize a patient plan to treat and monitor progression of specific diseases or symptoms5. defend therapeutic plan to peer group of medical and pharmacy students6. write chart notes to document findings and plan of care
Director:	Robb McGory, Pharm.D., Pharmacy Practice
Co-Director:	TBD
HPE Coordinator:	

Course:	Pharmacy Law and Ethics II
Year, Block Offered:	Year 3, Block 8
Hours Per Week:	1
Duration in Weeks:	16
Step in Curriculum:	4
Course Description:	<p>This course is a continuation of Pharmacy Law and Ethics I. The student will learn the laws that govern the licensing and practice of pharmacists, physicians, nurses, nurse practitioners, physician assistants, veterinarians and dentists. The distinction of duties and limitations of pharmacists, interns and technicians will be explored. Laws will be reviewed that guide the business of pharmacies, the distinction of manufacturing vs. compounding and the practice of pharmacy inspections by state board representatives.</p> <p>Programs that support impaired pharmacists will be discussed as well as the legal limitations places upon a pharmacist who has been returned to active status.</p>
Objectives:	<p>By the end of the course, the student will be able to:</p> <ol style="list-style-type: none">1. state legal limitations of practice for pharmacists, interns and technicians.2. compare the prescribing abilities of physicians, nurse practitioners, physician assistants, veterinarians and dentists.3. apply laws to the management of a free standing community pharmacy and an institutional pharmacy4. create an environment where an impaired pharmacist can safely and legally continue to use his or her licenses after completing the state mandated recovery process.
Director:	Richard J. Kasmer, Pharm.D., J.D., Pharmaceutical Sciences
Co-Director:	Robb McGory, Pharm.D., Pharmacy Practice
HPE Coordinator:	

Course: Professional Elective

Year, Block Offered: Year 3, Block 8

Hours Per Week: 2

Duration in Weeks: 16

Step in Curriculum: 4

Course Description:

Objectives:

Director: TBD

Co-Director:

HPE Coordinator:

Course:	Pharmacist Patient Care Experiences IX Medication Safety
Year, Block Offered:	Year 3, Block 8
Hours Per Week:	6 hrs x 12 wks
Duration in Weeks:	8
Step in Curriculum:	4
Course Description:	<p>PPCE IX focuses on professional skills development for contemporary pharmacy practice. These experiences in Year 3 focus on medication safety. Pharmacy students will be required to spend 60 hours in each of the following practice settings: community (chain or independent), institutional, and ambulatory. Supervised activities that are common to both community and institutional sites include: insuring that prescriptions meet legal requirements; reviewing prescriptions for appropriateness (allergies, clues of impaired ability to eliminate drug, contraindications, optimal administration methods); reviewing patient profile for drug usage patterns that suggest noncompliance or abuse; monitoring for expected outcomes and adverse events; and counseling patients. Additional activities unique to the institutional setting include answering drug information questions, monitoring missed dose reports, and participating in DUE reports and P&T meetings where medication usage is discussed. Supervised activities in the ambulatory setting include: interviewing patients to uncover all sources of medication use, possible side effects, and expected outcomes; performing basic patient assessment methods to evaluate response and/or adverse effects; documenting medication use in patient charts; assisting in the writing of new prescriptions to insure that legal requirements are met; contacting patient pharmacies to identify refill information or provision of verbal prescription; monitoring prescribing patterns for appropriate usage; and preparing FDA adverse event reports. Third year students will also be expected to mentor second year pharmacy students who are on rotation at the same site. On campus activities will include interdisciplinary medication therapy management exercises, and continued practice of medication history, vital signs measurements, basic physical assessment and OTC counseling skills, as well as journal clubs and answers to drug information questions.</p>

Objectives:

By the end of the course the student will be able to:

1. review a prescription for legal requirements and appropriateness, given information obtained from the patient or patient profile.
2. assess a patient profile for drug usage/drug adherence patterns.
3. perform basic physical assessment skills.
4. identify and monitor patient outcomes related to drug therapy.
5. counsel patients effectively on medication use.
6. communicate effectively with other health professionals.
7. prepare and communicate a pharmaceutical care plan.

Director:

Janis J. MacKichan, PharmD, Pharmacy Practice

Co-Director:

Louis D. Barone, Pharm.D., Pharmacy Practice

HPE Coordinator:

Laurie Zupp

Course:	Pharmacotherapeutics and Practice of Pharmacy II
Year, Block Offered:	Year 3, Block 9
Hours Per Week:	12
Duration in Weeks:	21
Step in Curriculum:	4
Course Description:	<p>This two-part course deals with drug therapy management of diseases and conditions associated with specific organ systems. The emphasis in Part II of this course is on the cause, prevention, pathophysiology, pharmacology of targeted drugs, development of therapeutic plans, and monitoring of diseases. Problem solving strategies will be applied to realistic patient cases that incorporate applications of clinical pharmacokinetics, the use of nonprescription drugs and devices, the prevention of medical errors, and health promotion. Pharmacy students will work with medical students to learn the physical assessment of patients for purposes of drug therapy monitoring.</p>
Objectives:	<p>By the end of the course, the student will be able to:</p> <ol style="list-style-type: none">1. discuss the causes, pathophysiology, and management of diseases.2. discuss health promotion, disease management, and social factors related to pharmacotherapeutics.3. distinguish between application of pharmacotherapeutic principles in treating geriatric and pediatric patients.4. demonstrate an understanding of clinical pharmacokinetics, the use of nonprescription drugs and devices, and the prevention of medication errors.5. perform the physical assessment necessary for evaluating and monitoring drug therapy of the patient's condition.
Director:	Robb McGory, Pharm.D., Pharmacy Practice
Co-Director:	TBD
HPE Coordinator:	

Course:	Medication Performance and Patient Safety II Recitation
Year, Block Offered:	Year 3, Block 9
Hours Per Week:	3
Duration in Weeks:	21
Step in Curriculum:	4
Course Description:	<p>This course is a continuation of Medication Performance and Patient Safety I.</p> <p>Students will continue to work on case studies of simple or complex diseases to gain experience in generating patient care plans. Students will use a combination of primary literature, knowledge of disease processes and pharmacokinetic principles to generate safe and effective therapeutic regimens. Significant emphasis will be placed on adequate monitoring of disease progression, drug induced disorders and judicious use of lab orders. Students will work in groups as well as individually to produce viable care plans. Students will defend their plans to faculty members during small group recitations as well as to the entire class. When time permits, students will work with medical students to develop physical assessment plans, diagnostic tests and invasive procedures to optimize the treatment plan.</p>
Objectives:	<p>By the end of the course, the student will be able to:</p> <ol style="list-style-type: none">1. categorize patient symptoms and diagnostic findings into categories reflecting specific disease processes2. prioritize patient complaints into acute and chronic issues3. summarize a patient's medical conditions that would affect drug selection, dosage and need for monitoring outcomes4. synthesize a patient plan to treat and monitor progression of specific diseases or symptoms5. defend therapeutic plan to peer group of medical and pharmacy students6. write chart notes to document findings and plan of care
Director:	Robb McGory, Pharm.D., Pharmacy Practice
Co-Director:	TBD
HPE Coordinator:	

Course:	Pharmacy Law and Ethics III
Year, Block Offered:	Year 3, Block 9
Hours Per Week:	1
Duration in Weeks:	21
Step in Curriculum:	4
Course Description:	<p>This course is a continuation of Pharmacy Law and Ethics II.</p> <p>Part III in the series concentrates on the laws that guide patient safety and autonomy. The sequence begins with discussion of laws governing generic and therapeutic substitution. Mandatory reporting systems will be described including the expectations of pharmacist and the intended use of information generated by adverse drug reports and tracking of prescribing practices. Patient rights will be discussed in depth to cover HIPAA regulations and regulations governing research and the expectations of informed consent.</p>
Objectives:	<p>By the end of the course, the student will be able to:</p> <ol style="list-style-type: none">1. perform a legal generic substitution including appropriate documentation of the substituted items2. discuss the ethics required to sit on a formulary committee3. discuss the use of patient assistance programs as a way to circumvent formulary systems4. create a system for identifying and reporting ADRs, reviewing the local data and comparing local to national data on adverse events5. educate a patient on his or her rights to protect personal health care data6. discuss the various research atrocities that led to the current governing of human research7. write an informed consent that would meet legal requirements for a research project.
Director:	Richard J. Kasmer, Pharm.D., J.D., Pharmaceutical Sciences
Co-Director:	Robb McGory, Pharm.D., Pharmacy Practice
HPE Coordinator:	

Course: Professional Elective

Year, Block Offered: Year 3, Block 9

Hours Per Week: 2

Duration in Weeks: 21

Step in Curriculum: 4

Course Description:

Objectives:

Director: TBD

Co-Director:

HPE Coordinator:

Course:	Pharmacist Patient Care Experiences X & XI Medication Safety
Year, Block Offered:	Year 3, Block 9
Hours Per Week:	6 hrs x 13 wks
Duration in Weeks:	21
Step in Curriculum:	4
Course Description:	<p>PPCE Experiences X & XI focus on professional skills development for contemporary pharmacy practice. These experiences in Year 3 focus on medication safety. Pharmacy students will be required to spend 60 hours in each of the following practice settings: community (chain or independent), institutional, and ambulatory. Supervised activities that are common to both community and institutional sites include: insuring that prescriptions meet legal requirements; reviewing prescriptions for appropriateness (allergies, clues of impaired ability to eliminate drug, contraindications, optimal administration methods); reviewing patient profile for drug usage patterns that suggest noncompliance or abuse; monitoring for expected outcomes and adverse events; and counseling patients. Additional activities unique to the institutional setting include answering drug information questions, monitoring missed dose reports, and participating in DUE reports and P&T meetings where medication usage is discussed. Supervised activities in the ambulatory setting include: interviewing patients to uncover all sources of medication use, possible side effects, and expected outcomes; performing basic patient assessment methods to evaluate response and/or adverse effects; documenting medication use in patient charts; assisting in the writing of new prescriptions to insure that legal requirements are met; contacting patient pharmacies to identify refill information or provision of verbal prescription; monitoring prescribing patterns for appropriate usage; and preparing FDA adverse event reports. Third year students will also be expected to mentor second year pharmacy students who are on rotation at the same site. On campus activities will include interdisciplinary medication therapy management exercises, and continued practice of medication history, vital signs measurements, basic physical assessment and OTC counseling skills, as well as journal clubs and answers to drug</p>

information questions.

Objectives:

By the end of the course the student will be able to:

1. review a prescription for legal requirements and appropriateness, given information obtained from the patient or patient profile.
2. assess a patient profile for drug usage/drug adherence patterns.
3. perform basic physical assessment skills.
4. identify and monitor patient outcomes related to drug therapy.
5. counsel patients effectively on medication use.
6. communicate effectively with other health professionals.

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