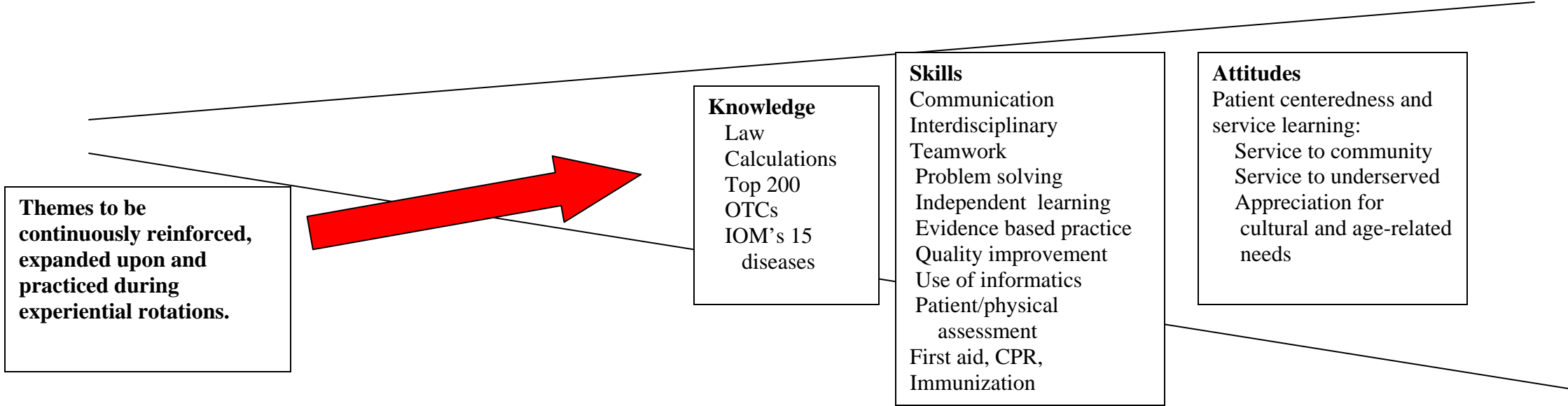


Longitudinal Growth of Pharmacy Practice Experiences			
<p style="text-align: center;">Year 1 <i>Professionalization</i></p> <p>Goals:</p> <ol style="list-style-type: none"> 1) Gain appreciation for professionalism in health care 2) Exposure to a range of practice sites 3) Apply compounding skills 4) Practice packaging doses of medication 5) Plan and participate in health fairs 6) Administer immunizations 	<p style="text-align: center;">Year 2 <i>Medication Distribution</i></p> <p>Goals:</p> <ol style="list-style-type: none"> 1) Establish skills in dispensing medication 2) Inventory and fill automatic dispensing devices 3) Create therapeutic plans using OTC medications 4) Counsel patients on the use of OTC medications 5) Help patients obtain medications through prescription assistance programs 	<p style="text-align: center;">Year 3 <i>Medication Safety</i></p> <p>Goals:</p> <ol style="list-style-type: none"> 1) Critique new prescriptions for legal requirements 2) Review patient profiles for duplication, errors, drug interactions, correct doses 3) Counsel patients on prescription and OTC medications 4) Mentor students in Year 2 	<p style="text-align: center;">Year 4 <i>Professional Interaction</i></p> <p>Goals:</p> <ol style="list-style-type: none"> 1) Assess patient disease process and medication usage 2) Intervene when therapeutic use of drugs can be improved 3) Establish monitoring criteria for medication use 4) Gain competence in medication use in pediatric and geriatric populations 5) Mentor students in Year 3



Year 1 Prologue

Time: Full time x 12 days

Site: Campus based

90% of course is with medical students

Topics for medical and pharmacy students:

Becoming a health care professional

Becoming a health care team

Professional identity development

Strategies for academic and career success

Professionalism

Listening and communicating

Basic physical exam procedures

Interviewing basics

Measuring vital signs

Family and community contexts of health care

The meaning of service in health care professions

Topics for pharmacy:

-Case study showing why upcoming coursework is necessary

-Preview of Year One objectives

Year 1 Pharmacist Patient Care Experience (PPCE)
 Theme: Professionalization and Dosage Forms

<p align="center">Block 1 <i>Foundation of Professionalism</i></p>	<p align="center">Block 2 <i>Focus: Dosage Forms</i></p>	<p align="center">Block 3 <i>Focus: Dosage Forms</i></p>	<p align="center">Block 4 <i>Focus: Dosage Forms</i></p>
<p>Time: 52 hrs over 13 weeks Primarily campus-based, 3 visits to volunteer patients (community teacher)*</p> <p>Activities:</p> <ol style="list-style-type: none"> 1) Visit volunteer patient 2 times 2) Introduction to Wasson Center to assess med history-taking and medication counseling on OTC's. 3) Scavenger hunt with med students (AHEC) to assess a community 4) BLS and First Aid certification <p>* Work in groups of 3 to learn from an individual patient volunteer about their health and life experiences, such as restrictions to normal life, diet, mobility and communication. Activities: medication history, measurement of vital signs, counsel on medication reminder systems/drug regimen adherence, counseling on OTC drugs. Assignments must be completed after each visit to reflect on patient's understanding; group reports will be given on campus.</p>	<p>Total Time: 42 hours over 7 weeks Site visits: 4 hr/week x 6 wks =24 hrs Campus or independent learning: 18 hrs</p>	<p>Total Time: 35 hours over 7 weeks Site visits: 4 hr/week x 6 wks =24 hrs Campus or independent learning: 11 hrs</p>	<p>Total Time: 64 hours over 8 weeks Site visits: 4 hr/week x 6 wks =24 hrs Campus or independent learning: 40 hrs</p>

Campus-based activities will involve: Top 200, medical terminology, OTC's, calculations, use of informatics, use of drug information (responses to DI questions, journal club, case presentation), health care system, service learning, pharmacy law, the IOM's 15 diseases, formulations and parenterals. **Ongoing: Visit with assigned Volunteer Patient each block followed by assignments/presentations.**

Blocks 2, 3, and 4: students are exposed to 6 different sites of the following types:
 Three types of sites are required for all students: chain pharmacy (3 wks), hospital central pharmacy (3 wks), and independent pharmacy (3 wks). The other 3 sites may be any of the following: specialty pharmacies (long term care, long term acute care, pediatrics, veterinary, compounding), pharmacies for underserved patients (free clinics, health departments, community health centers), student health service pharmacies.

There is no particular order for these blocks. All have 24 hours of site visit time. Site visit activities will be the same, but will increase in complexity and expectations between Block 2 and Block 4. The manuals for this course will differ somewhat depending on the Block.

Site activities will be at a pharmacy technician level and may include:

- 1) Reconstitute suspensions, compound ointments, lotions and liquid dosage forms
- 2) Package liquid preparations in unit dose containers / ped pods
- 3) Prepackage dosage forms for mechanical dispensing devices
- 4) Assist with prescription assistance program paperwork
- 5) Check for outdated drug stock
- 6) Identifying human or animal patients who would benefit from specific formulations
- 7) Calling patients who have not yet picked up prescriptions

Year 2 PPCE
Theme: Medication Use Systems

<p>Block 5 <i>Home IV Care or Patient Assistance Programs</i></p> <p>Total Time: 42 hrs over 7 weeks Site visits: 6 hr/week x 7 wks =42 hrs Campus or independent learning: 0 hrs</p>	<p>Block 6 <i>Home IV Care or Patient Assistance Programs</i></p> <p>Total Time: 45 hrs over 9 weeks Site visits: 6 hr/week x 7 wks =42 hrs Campus or independent learning: 3 hours</p>
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Site for Home IV Care: Inpatient or Home IV care facilities
Activities:

- 1) Obtain patient background information
- 2) Critique new IV orders
- 3) Review drug information for stability and drug interactions
- 4) Confirm safe dose and route of administration
- 5) Review patient profile for duplication, errors, drug interactions and updated information
- 6) Prepare sterile parenteral product
- 7) Mentor P1 students

Site for Prescription Assistance Programs: health departments, ambulatory care clinics, community health (underserved) centers
Activities:

- 1) Obtain patient background information
- 2) Critique new prescriptions
- 3) Confirm safe dose
- 4) Review patient profile for duplication, errors, drug interactions and updated information
- 5) Identify medication available through samples or patient assistance programs
- 6) Assist patient in applying for specific assistance programs
- 5) Receive medication from manufacturer and prepare for dispensing
- 6) Mentor P1 students

These 2 rotations can occur in either order

<p>Block 7 A <i>Community or Institutional Practice</i></p> <p>Total Time: 90 hrs over 10 weeks Site visits: 8 hr/week x 10 wks =80 hrs Campus or independent learning: 10 hrs</p>	<p>Block 7 B <i>Community or Institutional Practice</i></p> <p>Total Time: 90 hrs over 10 weeks Site visits: 8 hr/week x 10 wks =80 hrs Campus or independent learning: 10 hrs</p>
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Site: Community pharmacy or inpatient pharmacy
Activities for both:

- 1) Obtain patient background information
- 2) Critique new prescriptions
- 3) Confirm safe dose
- 4) Review patient profile for duplication, errors, drug interactions and updated information
- 5) Prepare correct drug, dose, quantity and labeling for pharmacist check
- 6) Assist patients with OTC selections
- 7) Mentor P1 students

These 2 rotations can occur in either order.

“Clinical Skills Week” between Blocks 5 and 6. To include certification in immunization delivery and smoking cessation

Year 3 PPCE
Theme: **Medication Safety**

Block 8 <i>Community Practice- Corporate or Independent</i>	Block 9 A <i>Institutional Care</i>	Block 9 B <i>Ambulatory Care</i>
<p>Total Time: 72 hrs over 12 weeks Site visits: 7 hr/week x 10 wks =70 hrs Campus or independent learning: 2 hrs</p> <p>Site: Chain stores Tasks</p> <ol style="list-style-type: none"> 1) Insure each prescription meets legal requirements 2) Review prescriptions for allergies, clues for altered ability to eliminate drug, clinical contraindications and optimal administration directions 3) Review patient profile for drug usage patterns that suggest non-compliance or abuse 4) Document OTC medication use and intervene if potential exists for undesired outcome of prescription medications 5) Track prescribing patterns of drugs of abuse 6) Counsel patient on prescription medications 7) Monitor results for expected outcomes and adverse events 8) Mentor P2 students 	<p>Total Time: 72 hrs over 12 weeks Site visits: 7 hr/week x 10 wks =70 hrs Campus or independent learning: 2 hours</p> <p>Site: Inpatient facilities Tasks:</p> <ol style="list-style-type: none"> 1) Insure each prescription meets legal requirements 2) Review prescriptions for allergies, clues for altered ability to eliminate drug, clinical contraindications and optimal administration directions 3) Review patient profile for PRN use that may suggest non-optimal drug use 4) Monitor results for expected outcomes and adverse events 5) Assist in the management of drug information questions 6) Counsel patient on discharge medications 7) Monitor adverse drug reports for need to report to FDA or for patterns that may need to be tracked 8) Monitor missed dose reports for situations where critical drug was not administered or expensive drug was not charged 9) Participate in DUE reports and P&T meetings where medication usage is discussed 10) Mentor P2 students 	<p>Total Time: 78 hrs over 13 weeks Site visits: 7 hr/week x 10 wks =70 hrs Campus or independent learning: 8 hours</p> <p>Site: Health Departments; Ambulatory care clinics, Underserved centers; Home IV programs Tasks:</p> <ol style="list-style-type: none"> 1) Assist in interviewing patients to uncover all sources of medication use 2) Inquire about patient identification of side effects from medication or incomplete response to medication 3) Document medication usage in patient chart 4) Assist in writing new prescriptions to insure all legal requirements are met 5) Aid preceptor in contacting patient pharmacies to identify refill information or provision of verbal prescription 6) Monitor prescribing patterns for appropriate usage and avoidance abusive use of medication 7) Complete FDA adverse event report when identified 8) Mentor P2 students
<p>These 3 rotations can occur in any order.</p>		

Year 4 Full Time Advanced Practice Experiences
Theme: Disease Intervention

<p align="center">Rotation 1 <i>Advanced Community Care</i></p>	<p align="center">Rotation 2 <i>Advanced Institutional Care</i></p>	<p align="center">Rotation 3 <i>Ambulatory Care</i></p>	<p align="center">Rotation 4 <i>Internal Medicine</i></p>	<p align="center">Rotation 5 <i>Underserved</i></p>	<p align="center">Rotation 6 <i>Selective: Pediatrics or Geriatrics</i></p>	<p align="center">Rotation 7 <i>Elective</i></p>
<p>Time: 6 wks Site: Community pharmacy Activities: 1) Perform medication history and counsel on new prescriptions 2) Identify medications that have questionable continued need 3) Communicate with prescriber when improvement is possible 4) Assess Rx for meeting intent of Rx Law</p>	<p>Time: 6 wks Site: Hospital, Nursing Home Activities: 1) Organize DUE review of targeted drug 2) Participate with quality improvement program to track adverse drug reactions, medication errors and missed doses 3) Manage the distribution of drugs through mechanized drug stores (Pyxis) 4) Participate in staff development programs</p>	<p>Time: 6 wks Site: Clinic, MD office Activities: 1) Manage drug therapy in a population of outpatients 2) Perform medication history and counsel on new drugs 3) Establish patient compliance 4) Intervene when drug choice, dose or monitoring is non-optimal 5) Report ADRs to FDA 6) Participate in direct patient care and physical examination</p>	<p>Time: 6 wks Site: Faculty Activities: 1) Round with medical team 2) Participate / lead decision on drug choices 3) Perform medication history & discharge counseling 4) Perform physical assessment 5) Educate team member / health care staff 6) Provide drug information to guide care decisions 7) Create patient care plans</p>	<p>Time: 6 wks Site: Free clinics, prisons, community health centers, health departments Activities: 1) Perform medication history and counsel on new drugs 2) Identify compliance issues based upon accessibility to medication 3) Channel patient to patient assistance programs 4) Participate in direct patient care and physical examination 5) Assist medical staff in using less costly drugs</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>These may be non-RPh precepted.</p> </div>	<p>Time: 6 wks Site: Variable Activities: 1) Must select one of these 2) Apply pharmaceutical knowledge to unique population</p>	<p>Time: 6 wks Sites: Research lab, acute care setting, ambulatory care clinic, community pharmacy, academic setting, professional organization Activities: 1) Learn advanced information from selected rotation 2) Participate in management process of the advanced rotation 3) Apply legal expectations and restrictions to the practice situation 4) Create education programs to the audience targeted by the rotation 5) Perform detailed self analysis of abilities 6) Identify areas of knowledge to be improved following graduation 7) Establish contacts with individuals who will be resources after graduation</p>

Note: we will fit Grand Rounds here during an “intercession”
 These rotations can occur in any order.