

**PHRM 581, 582, 583**  
**Advanced Pharmacy Practice Experience (APPE)**  
**NDSU College of Pharmacy, Nursing, and Allied Sciences**

<b>Credits:</b>	40 (Summer = 10 credits, Fall = 15 credits, Spring = 15 credits)
<b>Meeting Times:</b>	The P4 year consists of eight x 5 week rotations which are determined by the University calendar and the discretion of the Experiential Education Director/s.
<b>Instructors:</b>	College Clinical and Adjunct Clinical Instructor of Pharmacy Practice
<b>Course Coordinator:</b>	Wanda Roden, R.Ph. Director, Advanced Pharmacy Practice Experiences Sudro Hall, 20

**NDSU College of Pharmacy, Nursing, and Allied Sciences Experiential Education Contact Information:**

Wanda Roden, R.Ph.	(W) 701-231-5178	<a href="mailto:wanda.roden@ndsu.edu">wanda.roden@ndsu.edu</a>
Mark Lofgren, MBA	(W) 701-231-7722	<a href="mailto:mark.lofgren@ndsu.edu">mark.lofgren@ndsu.edu</a>
Rebecca Focken, Pharm.D., R. Ph.	(W) 701-231-7477	<a href="mailto:rebecca.focken@ndsu.edu">rebecca.focken@ndsu.edu</a>
Nancy Nessa	(W) 701-231-5576 (F) 701-231-7606	<a href="mailto:nancy.nessa@ndsu.edu">nancy.nessa@ndsu.edu</a>
E*Value Website	<a href="https://www.e-value.net">https://www.e-value.net</a>	
Mailing Address	Pharmacy Practice NDSU Dept. 2660 20 Sudro Hall, P.O. Box 6050	

**PREREQUISITES**

1. Successful completion (Grade of "C" or better) of all required third year Pharm.D. coursework.
2. Successful completion of annual NDSU Bloodborne Pathogens training, HIPAA Privacy, HIPAA Security, Medicare Fraud, Waste & Abuse Prevention, and Methamphetamine Abuse Prevention Training.
3. Successful completion of health and background check requirements.
4. Students must hold a current registered intern license in the state of North Dakota AND additional pharmacy intern licensure as required by non-North Dakota practice sites.
5. Students are required to carry at least minimal limits of professional liability insurance, which is provided by the University.

**COURSE DESCRIPTION**

Advanced Pharmacy Practice Experiences are designed to integrate, apply, reinforce, and advance the knowledge, skills, attitudes and values developed through the other components of the curriculum. PHARM 581, 582, and 583 consist of 8 five week rotations for a total of 200 hours per rotation. Five of the eight rotations are "required" rotations consisting of one community advanced, one institutional, one acute care, one ambulatory care, and one rural rotation. The required pharmacy practice experiences must include direct interaction with diverse patient populations in a variety of practice settings and involve collaboration with other health care professionals.

The additional three rotations are considered "elective" rotations. Elective rotations are defined as any "required" rotation or any experience that will provide opportunities for students to develop professional skills and individual interests.

Most pharmacy practice experiences must be under the supervision of qualified pharmacist preceptors licensed in the United States.

## **REQUIRED STUDENT RESOURCES**

Updated resume  
APPE Handbook  
IPPE/APPE Policies and Procedures  
E\*Value documents and electronic portfolio

## **ABILITY-BASED OUTCOMES**

To achieve the mission of the NDSU College of Pharmacy, Nursing and Allied Sciences, the Pharmacy Doctorate curriculum evaluates students using the following ability-based outcomes, which are all applicable during PHARM 581, 582, and 583.

### **1. Attitudes and Values**

- a. Demonstrate honesty and integrity in all situations.
- b. Demonstrate sensitivity and tolerance for the values, dignity, and abilities of all individuals.
- c. Make decisions and perform duties in accordance with legal, ethical, social, cultural, economic, and professional guidelines.
- d. Self-assess learning needs and design, implement, and evaluate strategies to promote intellectual growth and continued professional development in the area of hospital and health systems pharmacy practice.

### **2. Communication**

- a. Communicate and collaborate with patients, caregivers, health care professionals, administrative and support personnel to engender a team approach to patient-centered care.
- b. Demonstrate effective communication skills in inter-disciplinary relationships to assure safe, efficient, cost-effective utilization of human, physical, medical, informational, and technological resources.

### **3. Scientific Foundation.**

- a. Use appropriate scientific terminology to convey concepts of pathophysiology, medicinal chemistry, pharmaceuticals, pharmacology, and pharmacokinetics.
- b. Demonstrate an understanding of scientific research and discovery.
- c. Based on differences in chemistry, physical properties, pharmacology, pharmacokinetics, and pharmacogenomics, recommend changes in pharmacotherapeutic regimens that minimize drug interactions, reduce side effects, increase compliance, and improve therapeutic outcomes.
- d. Acquire, comprehend, synthesize, apply and evaluate information about the chemistry, physical properties, pharmacology, pharmacokinetics of therapeutic agents in order to design, implement, monitor, evaluate, and adjust care plans that are patient-specific and evidence based.

### **4. Patient Centered Care**

- a. Obtain, interpret and evaluate patient information to determine the presence of a disease or medical condition, assess the need for treatment and/or referral, and identify patient specific factors that affect health, pharmacotherapy, and/or disease management.
- b. Design, implement, monitor, evaluate, and adjust patient-centered care plans that are evidence based.
- c. Provide information regarding the selection, use and care of medical/surgical appliances and devices, self-care products, and durable medical equipment, as well as products and techniques for self-monitoring or health status and medical conditions.
- d. Document patient-centered care activities to facilitate communication and collaboration among the health care team.

- e. Retrieve, analyze, and interpret the professional, lay, and scientific literature to provide drug information to patients, caregivers, and other involved health care providers.
- f. Apply quality assessment methods to the evaluation of patient-centered care.

## **5. Systems Management**

- a. Accurately select, prepare, and dispense medications in a manner that promotes safe and effective use.
- b. Accurately prepare and compound individual or bulk medications in a manner that promotes safe and effective use.
- c. Prepare, store, and assure quality of sterile dosage forms.
- d. Provide counseling to patients, families and care givers.
- e. Manage human, physical, medical, informational, fiscal, and technological resources using relevant legal, ethical, social, cultural, economic, and professional principles/issues to assure efficiency and cost-effectiveness.
- f. Apply patient- and population- specific data, quality assurance strategies, and research processes to
  - a) assure that medication use systems minimize drug misadventuring and optimize patient outcomes and
  - b) to develop drug use and health policy, design pharmacy benefits and formulary systems.

## **6. Public Health**

- a. Assure the availability of effective health promotion and disease prevention services.
  - 1. Promote public awareness of health and disease.
  - 2. Provide emergency first aid treatment and cardiopulmonary resuscitation (CPR).
  - 3. Provide patients with access to poison control and treatment information.
  - 4. Provide immunizations and health-related screenings
- b. Provide population-based care.
  - 1. Develop and implement population-specific, evidence-based disease management programs and protocols based upon analysis of epidemiologic and pharmacoeconomic data, medication use criteria and review, and risk reduction strategies.
  - 2. Retrieve, analyze, and interpret the professional, lay, and scientific literature to provide drug information to other health care providers and to the public.
  - 3. Apply population-specific data, quality assurance strategies, and research processes to identify and resolve public health problems.

(Approved 9-7-2007, Revised 3-9-10 and 11-3-010)

## **COURSE OBJECTIVES**

Please refer to the individual rotation objectives outlined in the Student/Preceptor Handbook on the E\*Value website.

## **COURSE REQUIREMENTS**

- 1. Completion of the Affidavit/Progress Report Form
- 2. Completion of eight (one per rotation) Student evaluation of the site/preceptor
- 3. Completion of one Public Health Project
- 4. Completion of the E\*Value Personal Portfolio consisting of the following requirements outlined by the ND Board of Pharmacy:
  - a. Rotation Objectives
  - b. Two patient pharmaceutical care plans for patient care rotations
  - c. Two interventions recorded in PXDX (E\*Value) for patient care rotations
  - d. Intervention recorded for the Public Health Project in PXDX
  - e. Recording of all special projects/activities

- f. Assessment of the rotation
- g. Year- end summary
- 5. Prior to the start of each rotation, students are required to forward a copy of their resume and cover letter to the preceptor by the Wednesday of the second to the last week of the prior rotation. On Wednesday, the week prior to the beginning of a rotation, the student is to telephone the preceptor to inquire as to where to report, what time to report, where to park, proper attire, etc.

**COURSE SCHEDULE/OUTLINE/CALENDAR OF EVENTS**

The Pharm.D. fourth year will begin on **June 25, 2012 at 8:00 am** and will end on **May 3, 2013 at 5:00 pm.** The Experiential Year is comprised of eight by five week rotations which are determined by the University calendar and at the discretion of the Experiential Education Directors. It is further segregated into required and elective rotations. The five 5 week required rotations include: ambulatory care, acute care, community advanced practice, institutional/hospital advanced practice, and rural health. The three elective rotations are also five weeks in length.

**2012-2013 APPE Rotation Schedule**

**NDSU**

<b>Rot.#</b>	<b>APPE 1</b>	<b>APPE 2</b>	<b>APPE 3</b>	<b>APPE 4</b>	<b>APPE 5</b>	<b>APPE 6</b>	<b>APPE 7</b>	<b>APPE 8</b>
<b>Begin</b>	06/25/12*	07/30/12	09/03/12*	10/08/12	11/12/12*	01/22/13*	02/25/13*	04/01/13
<b>End</b>	07/27/12	08/31/12	10/05/12	11/09/12	12/14/12	02/22/13	03/29/13	05/03/13

Students are allowed time off during official University holidays.

- |                                     |                            |
|-------------------------------------|----------------------------|
| <b>New Year’s Day</b>               | <b>Independence Day</b>    |
| <b>Martin Luther King, Jr., Day</b> | <b>Labor Day</b>           |
| <b>Presidents’ Day</b>              | <b>Veteran’s Day</b>       |
| <b>Good Friday</b>                  | <b>Thanksgiving Day</b>    |
| <b>Holiday Recess</b>               | <b>Thanksgiving Friday</b> |
| <b>Christmas Day</b>                |                            |

Spring break is not considered time off for APPE rotations.

If a student wishes to make a change in the established schedule, the student must submit a completed “Schedule Change Request”. This form requires the approval and signature of both preceptors involved in the change. A copy of the completed form must be sent to the Experiential Program Director.

**METHOD OF INSTRUCTION:**

The method of instruction is dependent on the type of rotation, the student and preceptor objectives, the site, and other variables that occur within an experiential rotation.

**EVALUATION PROCEDURES AND GRADING CRITERIA**

**Preceptor Evaluation**

The “Student Evaluation Form”, is to be completed by the preceptor. The preceptor is required to:

1. Provide the student with verbal constructive feedback, midway and throughout the rotation.

2. Provide a written “Student Evaluation” and constructive feedback at the conclusion of the rotation.
3. Provide a copy of the written “Student Evaluation” to the student.
4. Post on the E\*Value website, email, mail or fax a copy of the written “Student Evaluation” to the Director of Experiential Programs within two week following the completion of each rotation.

Copies of the IPPE/APPE preceptor “Student Evaluation Form” are available for preceptors to review on the E\*Value Preceptor Homepage.

An electronic copy of this evaluation form will be generated by E\*Value and emailed to preceptors one week prior to the completion of the practice experience.

### **Student Evaluations**

A Student Evaluation of the preceptor/site must be completed for all rotations and registered on the E\*Value website, emailed, mailed or faxed to the Director of Experiential Program within one week following the completion of each rotation. It is recommended that this evaluation be discussed with the preceptor during the feedback session at the conclusion of the rotation. These comments and observations will provide the preceptor with invaluable feedback regarding his/her site, service, and individual performance as a preceptor.

A student will not receive their graduation diploma if all APPE evaluations are not received within two weeks of the end date of rotations.

**Preceptors have the ability to view anonymous student evaluations of the preceptor/site through E\*Value** once a preceptor has had at least three students provide an electronic evaluation for the preceptor through E\*Value.

**Directions on how to view these student evaluation summary reports are included on the E\*Value Preceptor Homepage** and directions will also be sent electronically to preceptors on an annual basis. Preceptors, who have not yet received at least three evaluations, can request verbal feedback and/or suggestions for improvement from our office.

### **Grading:**

The Grading System used to monitor academic performance for the Advanced Pharmacy Practice Experiences is:

**P (Pass):** Indicates that the student has successfully completed the work of the Advanced Pharmacy Practice Experiences

**F (Fail):** Indicates that student performance was unsatisfactory or that the student did not meet the expectations and/or complete the required work of the Advanced Pharmacy Practice Experience.

Students must complete and pass **ALL** course components to pass this course.

All supervised pharmacy practice experience course components will be evaluated using the NDSU Department of Pharmacy Student Evaluation by Preceptor, located in the IPPE and APPE Student Handbook.

<b>Scores achieved on NDSU Department of Pharmacy Student Evaluation by Pharmacist Preceptor</b>	<b>Resulting Grade for Supervised Pharmacy Practice Experiences</b>
“Superior”, “Above Average”, and/or “Average” on all components of the evaluation	Pass
“Below Average” on any component of the evaluation	Remediation required.
“Poor” on any component of the evaluation	Fail with the repeat of the rotation.

**Note:** Students receiving one or more ratings of “Below Average” during one rotation or on any component for more than one rotation may be required to repeat a rotation as part of a remediation plan.

If a student is unsuccessful in completing the requirements of any **three** APPE rotations, the student shall be permanently dismissed from the College of Pharmacy, Nursing, and Allied Sciences.

**Policy for Rotations Resulting in Below Average or Poor Performance:**

During any IPPE/APPE, if a student puts patients, preceptors or the practice at risk, that student may be immediately dismissed from the rotation and given a failing grade for that rotation. Students will not receive credit for failed rotation hours.

Upon failure of an IPPE rotation, a student will receive a failing grade and the student will complete a remediation plan during the subsequent academic year that includes repeating the course for academic credit. The student will be required to successfully complete all IPPE I, II, III, and IV prior to beginning APPE. A minimum of 300 IPPE hours must be **successfully** completed prior to APPE.

Upon failure of an APPE rotation, a student will receive an incomplete grade and will be required to successfully complete a remediation plan that includes repeating the failed rotation type for APPE credit. Upon completion of the remediation plan, the student will be required to make up any rotation hours that were missed due to the remediation plan. 1600 APPE rotation hours, in the appropriate combination of required and elective rotations, must be **successfully** completed prior to graduation. If a student requires remediation and does not successfully complete the remediation plan, College Policy 3.03, Right to Terminate Enrollment, will be considered. “

**Remediation Process for Receipt of a “Below Average” on evaluation:**

1. E\*Value will automatically send the Experiential Education Director an email if a student receives a “Below Average” on any component of the evaluation.
2. The email is then forwarded to the student requesting a meeting with the Experiential Education Director.
3. A phone call is made to the individual preceptor to obtain additional feedback regarding the “Below Average” rating.
4. During the face-to-face meeting, the student and Director will develop an action plan for remediation.
5. During the face to face meeting, the student and Director will develop a timeline for the action plan.
6. Follow up will occur throughout the next two rotations or in the next academic year for IPPE.

**Remediation Process for receipt of one or more ratings of “Below Average” during one rotation or on any component for more than one rotation:**

1. E\*Value will automatically send the Experiential Education Director an email if a student receives a “Below Average” on any component of the evaluation.
2. The email is then forwarded to the student requesting a meeting with the Experiential Education Director.
3. A phone call or visit is made to the individual preceptor to obtain additional feedback regarding the “Below Average” ratings.
4. The student will fail the rotation and be given an incomplete grade.
5. An action plan and timeline will be developed focusing on the deficiencies.

6. The rotation will be repeated in a different site/same type of rotation.
7. The preceptor of the repeat rotation will be notified of the action plan, timeline, and evaluation process required of the student.
8. If a student passes the make-up rotation, and future preceptors are still witnessing the deficiencies, the student may be in violation of Policy 31.03, Right to terminate Enrollment.

### **PROFESSIONALISM**

Students will be expected to dress and behave professionally during practice experiences. Please refer to the dress code located within your experiential education manual and posted in E\*Value.

### **ATTENDANCE STATEMENT**

1. The “Annual Leave Form” will be utilized for ALL time off related to sickness, professional and personal absences from the rotation site. “Personal Time” is considered time off for sickness, residency/job interviews, and vacation. “Professional Time” is considered time off for events surrounding the Department of Pharmacy Practice such as; didactic days, career fair, conventions, professional conferences designated for attendance by the College of Pharmacy, and legislative day. A student is allowed 5 “personal days” during the 40 weeks, with no more than 2 days occurring during a 5 week rotation. Preceptors have discretion to approve or deny requests for personal leave. The “Annual Leave Form” requires the signature of the preceptor and notification to the college, prior to the actual “leave”.
2. Three “professional days” will be allowed in December, for any student wishing to attend the Midyear ASHP conference to become familiar with residency programs across the country. Students must inform the Experiential Director that they will be attending the conference. Following the conference each student will submit a two page essay on their experiences and their residencies of interest.

### **AMERICAN DISABILITIES ACT FOR STUDENTS WITH SPECIAL NEEDS STATEMENT**

Students with disabilities who would like to request accommodations in this course are invited to speak with the Director of Experiential Programs as soon as possible so that appropriate arrangements can be made.

Veterans and student soldiers with special circumstances or who are activated are encouraged to notify the Director of Experiential Education in advance.

### **APPROVED ACADEMIC HONESTY STATEMENT**

*All work in this course must be completed in a manner consistent with NDSU University Senate Policy, Section 335: Code of Academic Responsibility and Conduct (<http://www.ndsu.edu/policy/335.htm>) and the College of Pharmacy, Nursing and Allied Sciences Academic Conduct Policy (see link below) ([http://www.ndsu.edu/pharmacy/pros\\_stats/documents/PharmacyHandbook\\_002.pdf](http://www.ndsu.edu/pharmacy/pros_stats/documents/PharmacyHandbook_002.pdf))*

**SYLLABI ON WEB PAGES** Syllabi presented on web pages shall contain the date of last update.

## **INSTRUCTIONAL CONTINUITY PLAN FOR DISRUPTION OF CLASSROOM ACTIVITIES**

### **Inclement Weather Conditions**

Students in the Fargo-Moorhead area are not expected to report to Experiential Education sites if classes at North Dakota State University have been cancelled due to inclement weather conditions or weather conditions are such that a student could not travel safely to and from the practice site. Students located outside the F-M area shall follow the local public school policy, and in case of closure, shall contact their preceptor directly for instructions.

Students, who miss hours due to inclement weather, should work with their preceptors and the Experiential Office to make up lost time.

## **INSTRUCTIONAL CONTINUITY PLAN FOR INDIVIDUAL MEDICAL REASONS**

### **Leave of Absence Policy:**

Student pharmacists must complete all practice experiences within the “rotation year”, with specific dates designated on an annual basis by the Experiential Education Department.

For circumstances that may arise during the year in which the student pharmacist will miss more than two weeks of any rotation, and is unable to complete all rotation hours within the “rotation year”, the student pharmacist may request a leave of absence. Please contact the IPPE or APPE Experiential Education Director immediately if this situation arises.

Reasonable attempts will be made to help a student pharmacist complete rotation hours. Students are not permitted to reschedule hours outside the specific dates of a rotation cycle without prior approval of the IPPE and APPE Experiential Education Directors.

Rescheduling of a rotation/rotations may result in the inability to complete rotation hours within the “rotation year” resulting in a later graduation date. The Experiential Director will make a reasonable effort to accommodate the student pharmacist regarding an earliest possible graduation date.