

I. Course Information

Course: PHRC 6680 - IPPE: Pharmacy Service

Semester and Year: Winter 2019

Semester Credit Hours: 2.0

II. Course Management Team

Course Coordinator:

Course Coordinator	Contact Information
Jennifer Steinberg, Pharm.D., BCPS (FL/PB)	Telephone: 954-262-1374 Email: js2128@nova.edu
Julie Marin, Pharm.D. (PR)	Telephone: 787-773-6585 Email: marin@nova.edu
Stacey Maravent, Pharm.D. (FL/PB)	Telephone: 561-805-2238 Email: stacey.maravent@nova.edu

Course Faculty:

Faculty	Contact Information
Daisy De La Rosa, MLIS	Telephone: 954-262-3117 Email: ddelarosa@nova.edu

III. Class Schedule and Location

Day/Dates	Time	Campus	Building/Room
Mondays (during Winter semester)	11:10-12noon (EST)	FTL	Aud A & Melnick (overflow)
		PB	TBA
		PR	TBA
IPPE Site (Tues or Wed for Regular session; daily for Summer sessions)	Per schedule arranged by preceptor	All	Site listed in PEPRx

IV. Course Description

This course provides an introduction to the application of skills, concepts, and knowledge acquired in the didactic component of the curriculum in institutional pharmacy settings. This course promotes the development of pharmacy practice skills and furthers the development of communication skills. On-site experience enables students to prepare for advanced pharmacy practice experiences. Prerequisite: PHRC 5420. (0-120-2)

This is a two-credit hour, fifteen-week, off-campus experience in a supervised health system pharmacy affiliated with the University. This one semester, eight hour per week experience enables students to

prepare for the advanced practice experience courses. If this course is completed during the summer session, student will participate daily for 8 hours a day over a three week time frame (Monday through Friday). Students will participate in reviewing patient charts, write patient notes, and present patient cases. Students are responsible for presenting a journal club article to the department of pharmacy. Students must apply knowledge learned in the classroom to activities at the experiential location. This course promotes the application of didactic knowledge, development of competency in pharmacy practice skills and furthers the development of communication.

V. Learning Outcomes

Curricular Outcomes: The educational outcomes addressed in this course are presented below and are included in the course instructional design map at the end of the syllabus under each topic.

1. Outcome 1 – Foundational Knowledge

1.1. Learner (Learner) - Develop, integrate, and apply knowledge from the foundational sciences (i.e. *pharmaceutical, social/behavioral/administrative*, and *clinical sciences*) to evaluate the scientific literature, explain drug action, solve therapeutic problems, and advance population health and *patient-centered care*.

2. Outcome 2 – Essentials for Practice and Care

2.1. Patient-centered care (Caregiver)- Provide *patient-centered care* as the medication expert (collect and interpret evidence, prioritize, formulate assessments and recommendations, implement, monitor and adjust plans, and document activities).

2.2. Medication use systems management (Manager)- Manage patient healthcare needs using human, financial, technological, and physical resources to optimize the safety and efficacy of medication use systems.

3. Outcome 3 - Approach to Practice and Care

3.4. Interprofessional collaboration (Collaborator) – Actively participate and engage as a healthcare team member by demonstrating mutual respect, understanding, and values to meet patient care needs.

3.6. Communication (Communicator) – Effectively communicate verbally and nonverbally when interacting with an individual, group, or organization.

4. Outcome 4 – Personal and Professional Development

4.4. Professionalism (Professional) - Exhibit behaviors and values that are consistent with the trust given to the profession by patients, other healthcare providers, and society.

Course Objectives:

Upon successful completion of this course, students will be expected to:

1. Evaluate drug orders consistent with patient history, current health status and legal requirements.
2. Clarify orders, as necessary by contacting the appropriate health care practitioner(s).
3. Monitor medication orders and patient profiles for potential interactions or adverse events.
4. Discuss in detail the content of each section of the medical record.
5. Present patient cases based on medical records in a format acceptable to the preceptor.
6. Discuss disease states and their pharmacological and non-pharmacological treatment options with preceptors and other health care professionals.
7. Correctly identify drug information resources to be used when answering drug information ?questions.
8. Provide accurate and comprehensive answers in person, by telephone or in writing to drug ?information questions.
9. Provide drug information to patients in the form of patient counseling, patient information group ? meetings, or written patient information.
10. Present a topic using a formal presentation style.
11. Demonstrate ethical and professional behavior in all practice activities.
12. Collect and evaluate patient data to determine appropriate courses of action (i.e., nonprescription ?drug therapy, non-drug therapy, or referral to another health care professional) when presented ?with a drug-related problem.
13. Effectively communicate accurate, evidence-based health and drug information to patients, ?

caregivers, health professionals and the general public.

14. Convey the process of selecting Advance Pharmacy Practice Experiences and the system? requirements of PEPrx.

15. Describe ACPE APPE requirements and APPE approved College of Pharmacy curriculum. ?

VI. Materials and Resources

Course Required Texts and Materials:

Required Text

1. *IPPE Health System/Pharmacy Service Manual* (Posted in PEPrx Online)
2. Nemire RE, Kier KL. *Pharmacy student survival guide*. 3rd ed. New York, NY. McGraw-Hill Professional; 2014 (Available on Access Pharmacy)

Course Supplemental Materials:

Recommended Text

1. Lexi-Comp Drug Handbook: ISBN 978-1-59195-361-6 or electronic version
2. Sanford Guide to Antibiotics: ISBN 978-1-944272-00-5 or electronic version

Other Resources:

1. Calculator with exponential capability
2. Stethoscope
3. Selected readings from the primary literature or other sources may be provided to supplement or replace the textbook readings. There may be weekly reading assignments. It is the student's responsibility to read the assigned material prior to attending class.

Other Resources: Students must have access to a printer, and iPad/computer with internet connection, to allow them access to web resources, and to download and print course material.

Canvas will be used to provide course materials and course communication. Students not familiar with Canvas are encouraged to access the [Canvas Student Guide](#) and [Canvas Student Videos](#). Course handouts will not be provided in class. Course material is generally provided in Adobe Portable Document Format and Microsoft PowerPoint.

Graded course assessments such as quizzes, exams and assignments if used in the course will be administered using ExamSoft (Examplify for iPad). Each student is responsible for maintaining appropriate iPad and software configurations for this purpose. It is the student's responsibility to ensure functionality (hardware, wireless network access, battery charge, sufficient memory, etc.) prior to each assessment. Students should contact ExamSoft at support@examsoft.com or 1-866-429-8889 for technical support.

Course announcements will be made either in class, on Blackboard bulletin board, PEPrx, or NSU email. Students are responsible for accessing and responding to all information disseminated.

VII. Instructional Methods

The course is delivered utilizing video conferencing/live classroom/Blackboard to multiple sites. Faculty from multiple sites may be used to deliver the course. IPPEs will be completed following various schedules and at various health system sites.

Classroom: Course content will be delivered using a variety of teaching and learning methods including practical application, assigned readings, self-study modules, videos, and assignments. Class meetings will consist predominantly of lectures and informal open discussions.

Practice Experience: Course content will be delivered using a variety of teaching and learning methods including practical application, preceptor discussions, assigned readings, self-study modules, and assignments. Meetings with preceptors and other pharmacists or healthcare providers will consist predominantly of informal open discussions and some lectures.

The following activities are minimum standard requirements. The mechanisms to achieve these requirements may necessitate specific guidelines tailored to the individual site. A checklist of topics may be provided to guide student and preceptor activities.

1. Participate in pharmacy services
 - Verify medication orders for appropriateness, including amount per dose, route, frequency, and duration (may be from chart or DUR and does not have to be during dispensing process)
 - Contact the appropriate health care practitioner(s) for clarification of orders as necessary.
 - Review and monitor medication orders and patient profiles for potential interactions.
 - Review medical records and discuss the contents of each section in detail.
 - Follow and discuss with the preceptor at least two patient cases based on medical records. (See patient for interview before presentations if available)
 - Discuss disease states with the preceptor.
 - Make recommendations for dosage adjustments based on renal function and patient response to therapy.
 - Document interventions as allowed by site.
 - Reconcile medications for patients moving from one care setting to another.
 - Provide antibiotic monitoring (i.e. appropriate medication, narrow vs broad coverage).
 - Receive a drug information question and correctly identify the sources for information and use that information to provide an accurate and comprehensive answer in an appropriate format.
 - Provide a nursing or pharmacy staff in-service.
2. Development of communication and presentation skills
 - Provide drug information to patients as well as other health care professionals in the form of counseling in person, by telephone or in writing
 - Present a topic in a formal presentation style. Written handout is per preceptor requirements.
 - Participate in interdisciplinary committee meetings such as Pharmacy and Therapeutics, Quality Assurance, Infection Control, etc., when those meetings are opportune to the student schedule
3. Participation in meetings:
 - Meet with the preceptor or representative at least 2 times during the introductory experience course for discussion and evaluation (midterm and final)
 - The preceptor at their discretion may call group meetings.
 - When available, meet with drug manufacturer's representatives that call on the pharmacy.
 - Attend pharmacy and therapeutics meetings, IRB meetings, Grand Rounds, Tumor Board, etc. as available during the course
4. Prepare projects and presentations: Preceptor responsible for assigning requirements, grading criteria and point value (40 points total). Presentation and Journal Club templates are provided in manual as appendices. Subject matter for project may be selected by student but must be approved by preceptor within 6 weeks of starting the course
 - Pharmacokinetic consult
 - Formal TPN consult
 - DUR
 - Formal drug information answer
 - Formal presentation to pharmacy, nursing, or allied health professionals.

VIII. Assessments

Student learning will be assessed using the following formative and summative assessment methods:

Graded Assessments: Graded Assessment: The following tools will be used throughout the semester.

1. Final Practice Performance Evaluations-Competency Score from Institutional Pharmacy Practice Site (Preceptor evaluated)
2. Effort Points (based on participation at site)

3. Drug Information (Preceptor evaluated)
4. Projects (Assignments; Preceptor evaluated)

Non-Graded Assessments: Self-Assessment (non-graded): The following self-assessment tools will be used throughout the semester.

1. Weekly/Daily Activities Summary: This form must be completed on a weekly basis (daily if assigned to a Summer session) and entered in PEPrx upon completion of the practice experience. Please summarize your experiences outlining the goals and objectives accomplished this week. Specify diversity/types of patients seen, problems encountered and patient interventions. If you are encountering any problems, please call immediately.
2. Midpoint practice performance evaluation
3. Patient Cases (during IPPE)
4. Discussion (during IPPE)

Assessment instruments may be used to determine class attendance

IX. Grading Criteria

Final Course Grade: Course Grades are determined as follows:

Assessment	% of Final Grade
Final Performance Evaluation - Competency Score (Rubric)	50
Effort in developing and achieving competencies	10
Formal Drug Information	10
Projects (from site)	30
Unexcused Absence (each)	-10
Total	100%

A minimum score of 90/100 points is needed to earn a passing grade in the course.

Grade Mode: Pass/Fail

X. Course Policies

Communication:

Course announcements will be made either in class, on Canvas or NSU email. Students are responsible for accessing and responding to all information disseminated.

The course is delivered utilizing pharmacy practice experience sites/video conferencing/live classroom/Blackboard. Clinical affiliate faculty from practice experience sites will be used to deliver the course. Faculty from multiple sites may be used to deliver the course.

Students are responsible for communicating directly with their assigned preceptor at least 4 weeks in advance of the start of their rotation and to arrange their site schedule. Preceptor contact information is listed in PEPrx.

Professional Behavior:

Students must conduct themselves in a professional manner. This includes maintaining the proper dress code set by the College and being courteous to classmates, facilitators and instructors both in class and online. Individuals, who do not conduct themselves professionally, will be subject to disciplinary action.

It is the student's responsibility to read and follow all practice and administrative requirements in the IPPE Community I and II Manual posted in the PEPrx and Blackboard.

While at the introductory pharmacy practice experience site, professional behavior is expected and NSU College of Pharmacy dress code and site specific requirements must be followed at all times. Failure to comply with the dress code or other NSU/site policies may result in being sent home with an unexcused absence for the day and a loss of ten (10) points from the final grade.

Academic Integrity:

Academic honesty and integrity are fundamental values expected of all students. Students should avoid the appearance of impropriety in all activities. Cheating, or the appearance of cheating, will not be tolerated and is subject to disciplinary action. Cheating includes, but is not limited to:

- Sharing exam content or answers during an exam or disseminating exam questions after the exam;
- Looking at a neighbor's paper;
- Unauthorized collaboration on projects or homework;
- Plagiarism (assignments may be processed through [Turnitin.com](https://www.turnitin.com) to detect plagiarism);
- Fabrication of data;
- Deceptions of any manner

Attendance:

The College of Pharmacy Office of Student Services will be responsible for determining excused absences. Students are responsible for obtaining materials and completing assignments missed when absent.

Attendance is **MANDATORY** for classroom lectures as outlined in the course schedule. The College of Pharmacy Office of Student Services will be responsible for determining excused absences. Students are responsible for obtaining materials and completing assignments missed when absent.

- Classes begin at 10 minutes after the hour.
- Attendance at the practice experience site is mandatory for licensure requirements. College holidays DO NOT apply while attending experiential practice experiences. Students may be expected by their preceptor to attend their IPPE on College holidays.
- You must complete a total of 15 days at your assigned site (eight (8) hours each day, once weekly for regular session; eight (8) hours daily for summer sessions). You will be required to work on projects, presentations, or other requirements in addition to the eight (8) hours per day required at the site.
- Refer to IPPE Health System/Pharmacy Services Manual for specific requirements regarding attendance at experience site. All policies in the manual apply to classroom attendance, and projects.

Testing: In courses where examinations are administered, students are expected to follow the College of Pharmacy Policy on Examination. This policy is found in the [Student Handbook](#), page 40.

Make Up:

Excused absences do not entitle students to have the opportunity to make up in-class work or assessments. Make up in-class work and/or assessments will only be permitted for approved, excused, absences at the discretion and convenience of the course coordinator.

Refer to IPPE Health System/Pharmacy Service Manual posted in PEPRx for specific requirements regarding make-up policy at experience site.

Site Dismissal: See IPPE Health System/Pharmacy Services Manual for Policy.

Course Paperwork: Course paperwork and evaluations must be completed and submitted in PEPRx by 9:00PM on the last day of IPPE. Students must keep copies of all submitted paperwork, projects, assignments, research, and presentations in a student portfolio (FolioRx). This portfolio must be maintained and updated for the duration of enrollment at NSU College of Pharmacy. There will be a five (5) point deduction from your final grade for late paperwork. Paperwork points will not be awarded after the

9:00PM deadline. A grade of INCOMPLETE will be submitted for students who fail to submit all paperwork by 11:30AM on Monday after the end of IPPE.

Online Evaluations: Online course evaluations and online preceptor/site evaluation (found in PEPrx) must be completed on or before 9:00PM on the last day of IPPE. All evaluations must be submitted to receive a final grade.

XI. University Policies

Accommodation Support Services

It is the student's responsibility to initiate the process for disability services. Students approved for accommodations under the Americans with Disability Act should have completed the required forms and received accommodation approval from the HPD student disability coordinator. Information and forms are available at <http://www.nova.edu/disabilityservices/index.html>

XII. Course Schedule

Course Schedule:

Week	Date	Topic	Faculty Broadcasting From	Instructor
January 1/2, 2019: first week at site (Tuesday or Wednesday) <i>Verify start date with preceptor due to New Year's Day Holiday – attendance during Spring Break may be necessary</i>				
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1	Jan 7	Review of IPPE Pharmacy Service Course Syllabus/Manual	PB	Dr. Maravent
2	Jan 14	No Class	---	---
3	Jan 21	No Class - Martin Luther King Jr. Holiday	---	University Closed
4	Jan 28	Schedule Review for APPEs MANDATORY – ALL STUDENTS	PB	Dr. Maravent
TENTATIVE: January 29 to February 28– Add/Drop period for APPE assignments (Site Directors are available by appointment to make adjustments to schedules)				
5	Feb 4	No Class	---	---
6	Feb 11	No Class	---	---
7	Feb 18	No Class	---	---
Week ending February 26, 2017 - Mid-point evaluation at site via PEP Rx				
8	Feb 25	No Class	---	---
9	March 4	No Class - Spring Break	---	---
10	March 11	Registration and Attestation Forms for Advanced Pharmacy Practice Experiences MANDATORY – ALL STUDENTS	PB/FLL	Dr. Maravent Ronnie Espinoza
11	March 18	Mobile Library Resources MANDATORY – ALL STUDENTS	FLL	Daisy De La Rosa Librarian
12	March 25	No Class	---	---
13	April 1	ACO APPE Preparation MANDATORY – STUDENTS WITH PHYSICIAN PRECEPTED APPEs	FLL	Dr. Moreau
14	April 8	Review of Advanced Pharmacy Practice Experience Manual MANDATORY – ALL STUDENTS	PB	Dr. Maravent
15	April 15	International APPE Preparation MANDATORY – STUDENTS WITH INTERNATIONAL APPEs	PB	Dr. Maravent
**April 22 to May 3, 2019: Final Exams Block **				

XIII. Instructional Design Map

Instructional Design Map:

Topic/ Instructor/Week	Educational Outcomes	Objectives	Materials	Delivery Methods (* Active Learning Methods)	Assessment Methods (‡: Formative Assessment)
Course overview Dr. Steinberg Week 1-Classroom		<ul style="list-style-type: none"> Describe course teaching/learning and professional expectations. Describe the role of the student in achieving the course expectations. 	Course Syllabus and IPPE Manual	Lecture - In Class	No formal assessment
Medicines Information Preceptor Week 1-15 at site	1.1 3.6 4.4	<ul style="list-style-type: none"> Conduct a systematic, efficient, and thorough drug information search. Develop concise and accurate responses to drug information requests Compose written and oral communication incorporating appropriate referencing procedures. 	Practice Site Materials	Practice Experience* Projects*	Discussion‡ Weekly Activities Summary‡ Midpoint Practice Performance Evaluation (Rubric) ‡ Final Practice Performance Evaluation-Competency Score (Rubric) Projects (see Manual)
Professionalism/ Team Interaction Preceptor Week 1-15 at site	1.1 2.1 3.4 3.6 4.4	<ul style="list-style-type: none"> Contact, as needed the appropriate health care practitioner(s) for clarification of orders. Compose written and oral communication incorporating appropriate referencing procedures. Reflect professionalism in manner and dress 	Practice Site Materials	Practice Experience*	Discussion‡ Weekly Activities Summary‡ Midpoint Practice Performance Evaluation (Rubric) ‡ Final Practice Performance Evaluation-Competency Score (Rubric) Projects (see Manual)

Topic/ Instructor/Week	Educational Outcomes	Objectives	Materials	Delivery Methods (*Active Learning Methods)	Assessment Methods (‡: Formative Assessment)
Accurately gather, organize and analyze patient information Preceptor Week 1-15 at site	1.1 2.1 2.2 3.4 3.6 4.4	<ul style="list-style-type: none"> Evaluate patients' medical profiles for appropriateness of their pharmacotherapy. Discuss disease states and appropriate pharmacological management with preceptor. Articulate with preceptor how a patient's chart is organized Communicate effectively both verbally and in writing with other healthcare team members in order to ensure appropriate pharmacotherapy. 	Medical Record Electronic Resources	Practice Experience*	Discussion‡ Weekly Activities Summary‡ Midpoint Practice Performance Evaluation (Rubric)‡ Final Practice Performance Evaluation-Competency Score (Rubric) Projects (see Manual)
Optimize pharmacotherapeutic regimens Preceptor Week 1-15 at site	1.1 2.1 3.4 3.6 4.4	<ul style="list-style-type: none"> Evaluate patients' medical profiles for appropriateness of their pharmacotherapy. Discuss disease states and appropriate pharmacological management with preceptor. Communicate effectively both verbally and in writing with other healthcare team members in order to ensure appropriate pharmacotherapy. 	Medical Record Electronic Resources	Practice Experience*	Discussion‡ Weekly Activities Summary‡ Midpoint Practice Performance Evaluation (Rubric)‡ Final Practice Performance Evaluation-Competency Score (Rubric) Projects (see Manual)
Preparation for APPEs Dr. Maravent (During Fall/Winter semesters)	3.6 4.4	<ul style="list-style-type: none"> Rank APPE selections from lists provided using a web-based management tool 	PEPrx APPE Manual	Lecture – In Class	No formal assessment