The students are responsible for fulfilling requirements that are assigned through three sections of E*Value. The three sections are called Learning Modules, PXDX Procedures and PXDX Drug related Problems.

There are Learning Modules that are specific to certain courses and some that are assigned to be completed at any time during the APPE year. These assignments are modules comprised of questions that require written material to be entered or uploaded. A copy of the Learning modules is included at the end of this document. The Learning modules are assigned as follows.

These can be completed at any time and are generated one week before the APPE year begins: (Unless, otherwise noted, (1) Learning Module will suffice.)

- Antibiotic Stewardship
- Business Plan
- Drug Info Request (5 total)
- Drug Monograph
- Formal Presentation
- Interprofessional Education Experience (3 total)
- Journal Critique
- Patient Education Handout
- Quality Activity
- Renal Patient Management

The following are the assigned one week prior to when the specific course begins:

**901, 901E Ambulatory Care and Ambulatory Care elective**

- Comprehensive Patient Care Plan
- Inter-professional Education Experience
- Pre-APPE reflection
- Post-APPE reflection
- Reflection on Counseling a Patient

**902 Acute Care**

- Antibiotic Stewardship
- Comprehensive Patient Care Plan
- Drug Monograph
- Interprofessional Education Experience
- Journal Critique
- Pre APPE reflection
- Post APPE reflection

**902E Acute Care elective**

- Pre APPE reflection
- Post APPE reflection
- Comprehensive Patient Care Plan
903 Community 903E Community as an elective

- Community Activities
- Pre-APPE reflection
- Post-APPE reflection
- Reflection on Counseling a Patient

904 Institutional, 904E Institutional Elective

- Pre-APPE reflection
- Post-APPE reflection

All other Electives

Pre-APPE reflection
Post-APPE reflection

PXDX Procedures

The following are to be completed at any time during the APPE year:

- Blood pressure reading (2)
- ADR Document an adverse drug reaction including reactions and any treatment required (2)
- Assess appropriateness of patient's assigned drug therapy (2)
- BMI adult Calculate body mass index show calculation in notes (2)
- Collect appropriate drug-related monitoring parameters for an assigned patient (2)
- Counsel a patient on their medications (2)
- Counsel patient on correct Inhaler technique (2)
- Counsel patient on OTC therapy (2)
- Creatinine Clearance Calculate by hand a CrCl for a patient with renal insufficiency (2)
- Creatinine clearance Calculate by hand for an adult/child/infant (2)
- Glucometer education Educate patient on correct technique (2)
- IBW Calculate the ideal body weight for an adult. (2)
- Identify and prioritize drug related problems for a patient (2)
- Maintain adequate patient data for each assigned patient (2)
- Medication history Interview a patient and take a complete history. List drugs (2)
- Medication reconciliation Complete for a patient being admitted. List drugs. In Notes document source of information (2)
- Pharmacokinetic consultation; Prepare a written recommendation and discuss with preceptor (2)
- Pulse Take a patient's pulse manually (2)
- Verbal therapeutic recommendation to another healthcare provider; Must review with preceptor first (2)
- Verbally present all patient data in a concise and meaningful fashion (2)
PXDX Drug Related Problems

The following are to be completed at any time during the APPE year. The exception to this is that the Community intervention and Community Assessment are to be done during 903. If a student completes a Community as an elective, 903E, they will need to complete 12 more of each.

- Adjust dose in a patient with renal insufficiency Document drugs, lab results and recommendations (2)
- Assess and recommend an appropriate DVT prophylaxis (2)
- Assess lipid panel and make appropriate recommendations (2)
- Community Drug Intervention (complete 12 per Community rotation)
- Community Patient assessment (Complete 12 per Community rotation)
- Dosage adjustment based on lab results. Document drugs involved and pertinent lab results (2)
- Drug-Disease interaction Record detail in notes (2)
- Drug-Drug Interaction record detail in notes (2)
- Drug-Food interaction Record detail in notes (2)
- Evaluate glucose log and make appropriate recommendations (2)
- Evaluate insulin therapy and make appropriate adjustments. Document detail (2)
- Initial insulin dosing regimen Document detail (2)
- Warfarin dosage adjustment based on a patient parameters (e.g. INR) (2)
Identify a patient that requires antibiotic therapy. List their age, diagnosis, comorbidities, Creatinine clearance and medication list and any other pertinent information you need to select an antibiotic care plan. Do not include any information that would identify the patient. *(Question 1 of 4 - Mandatory)*

Determine monitoring parameters for this patient being treated for an infectious disease. *(Question 2 of 4 - Mandatory)*

Recommend an empiric antibiotic regimen. *(Question 3 of 4 - Mandatory)*

Narrow antibiotic therapy based on the culture and sensitivity results. *(Question 4 of 4 – Mandatory)*
Write a business plan for a new or expanded Pharmacy service. Utilize the format outlined by the questions below.

Enter the Name of your Business Plan in the text box below.

You can refer to an excellent article that was published by the American Pharmacists Association. "Writing a Business Plan for a New Pharmacy Service"

Here is a link to the article http://www.pharmacist.com/sites/default/files/files/mtm_writing_business_plan.pdf

(Question 1 of 9)

Executive Summary
(Question 2 of 9 - Mandatory)

This should include a brief overview of the pharmacy's current status, define the main objectives of the plan and the purpose of the new services as well as explaining the financial and professional goals.
**Description of the Business**  *(Question 3 of 9 - Mandatory)*

A brief description of the current business and an explanation of how the new service would fit into the current structure.

**Description of the Service**  *(Question 4 of 9 - Mandatory)*

Describe the proposed service and include the following:

- How it builds upon the current operation.
- A description of the service.
- How and where it will be performed?
- Who will provide the service?
- The indicators that will be used to define and measure the progress toward the goals of the service.

**Marketing Plan**  *(Question 5 of 9 - Mandatory)*

Include the following:
- Potential customers.
- Size of market.
- What segments of patient population will be targeted?
- How will you educate stakeholders about the service?
- How it will differentiate from the competition.
**Financial Plan**  
*(Question 6 of 9 - Mandatory)*

Include the following:
- Projected Revenue
- Projected Expenses that includes Start-up cost, Fixed Costs and Variable Costs
- Break Even Point
- Source of Start Up Financing
- Exit Strategy

**Management Team**  
*(Question 7 of 9 - Mandatory)*

Qualifications and experience required of person overseeing the new project
Include education, certifications needed, staff training, advisory board, etc. needed to oversee the project.

**Operations**  
*(Question 8 of 9 - Mandatory)*

Define the process for service delivery and how it fits into the existing pharmacy operations. Include plan for adequate staffing, record-keeping compliance with regulations and adequate insurance coverage. Include how to evaluate and continuously improve the Pharmacy service. Outline the steps needed to implement the new process and the time needed for each step.

**Appendices**  
*(Question 9 of 9)*

Include any charts, documents etc., as needed.
Pharmacy Outreach Project  (Question 1 of 4 - Mandatory)

Attach a Pharmacy outreach project that you developed

Design and attach a Patient management project  (Question 2 of 4 - Mandatory)

Document and attach an inventory management project you participated in.  (Question 3 of 4 - Mandatory)

Patient Intervention Forms  (Question 4 of 4 - Mandatory)

Attach copy of the Patient intervention form for Community Pharmacy. This form can be found on the USJ website or on the home page of E*Value. After completing the Patient assessment (must be entered in PXDX), complete and upload the intervention forms below. Minimum of two per week of community rotation. You can upload multiple forms below.
Write and upload a Comprehensive Pharmacist Patient Care Plan (Soap Note)  

Assess the appropriateness of each of the medications ordered for the patient. Include any drug problems you have identified. List the problems identified in the order of their priority. *(Question 2 of 3 - Mandatory)*

*(Question 3 of 3, Question to be answered by Grader)*

Preceptor feedback on Students SOAP note  

Describe areas where the student met or exceeded expectations

Provide feedback or describe areas that require further development.
DRUG Information Request  (Question 1 of 6 - Mandatory)

Give a short synopsis of the drug information request that requires a primary literature evaluation. Include the profession making the request, the setting and the topic.

(Question 2 of 6 - Mandatory)

Drug Information Request  Answer the following questions

Classify the question:

e.g., Is it a therapy/treatment, identification of a disease state/diagnosis, or prognosis question, etc.?

Define your question:
P = Patient Problem, or Medical condition

I = Intervention (Therapy, Diagnostic Test, Exposure, Prognostic Factor, etc.)

C = Comparison (The alternative to this intervention: different drug, a placebo, no intervention)

O = Outcome (What can I hope to measure, improve or effect?)

Based on the question classification, what research format is most appropriate?

e.g., Therapy/treatment question = Randomized Controlled Trial Prognosis = Cohort Studies Etc.

(Question 3 of 6 - Mandatory)
Literature Search

**PUBMED:**

Based on the above information (the drug information question, classification, research format, identify the following components to assist in your information search.

What *MeSH* terms best represent your question?

What *Keywords, Text words, Subheadings and Limits* will refine your search criteria?

Which Boolean Commands should you use? e.g., OR to find more information AND to find both “_____ AND _____”.

___

After finding a full text article relevant to your question, use the "Related citations in PubMed" feature to review other articles. List the articles that you found useful.

List References used (Minimum of two sources)  

*(Question 4 of 6 - Mandatory)*

Drug information given (Question 5 of 6 – Mandatory)

Give a brief summary of the drug information you communicated based on your research.
Result of Drug Information (Question 6 of 6 – Mandatory)

What was the result of your drug information request? You can check more than one answer.

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<tr>
<th>Selection</th>
<th>Option</th>
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<tbody>
<tr>
<td></td>
<td>Physician changed order</td>
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<tr>
<td></td>
<td>Nurse adjusted medication administration</td>
</tr>
<tr>
<td></td>
<td>Education provided</td>
</tr>
<tr>
<td></td>
<td>Substituted another drug for medication ordered</td>
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<tr>
<td></td>
<td>Dose adjusted</td>
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<tr>
<td></td>
<td>Other</td>
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</tbody>
</table>
Required Formal presentation *(Question 1 of 1 - Mandatory)*

Upload a formal presentation that you gave at your site. This can be on any topic that is related to Pharmacy. Examples would be a presentation to staff on a new drug, presentation to P+T committee
Inter-professional Experience

(Question 1 of 5)

Please document an example of an inter-professional experience you had on your APPE rotation.

An inter-professional experience is defined as engagement in collaborative patient care decision making with members of an inter-professional health care team. It may also include identifying, evaluating and communicating to the healthcare team members the appropriateness of the patient's specific pharmacotherapeutic agents, dosing regimens, routes of administration, delivery systems, etc.

Please enter the name of the site where you had the experience.

Professions involved

(Question 2 of 5 - Mandatory)

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<thead>
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<tbody>
<tr>
<td></td>
<td>Physician</td>
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<tr>
<td></td>
<td>Physician assistant Nurse</td>
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<tr>
<td></td>
<td>Social worker</td>
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<tr>
<td></td>
<td>Health profession Student (non RX) APRN</td>
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<td>Dietician</td>
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<td>Physical Therapist</td>
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<td>Radiology</td>
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<td>Respiratory Therapy</td>
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</table>
(Question 3 of 5 - Mandatory)

Describe your inter-professional experience

Describe the situation that required your participation.

How did your participation benefit the team and/or patient?

What was your role in this experience?  

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<th>Selection</th>
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<th>(Question 4 of 5)</th>
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<tbody>
<tr>
<td>_____</td>
<td>Provide education</td>
<td></td>
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<tr>
<td>_____</td>
<td>Provide recommendation to health care team</td>
<td></td>
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<tr>
<td>_____</td>
<td>Developed care plan in collaboration with team</td>
<td></td>
</tr>
</tbody>
</table>

Reflections

What barriers did you encounter in accomplishing your role in the IPE?

What new insights did you learn about the role(s) of the other professionals you interacted with?

What can you do to be more prepared for an IPE in the future?

Describe both strengths and areas for improvement identified during this interaction.
Journal Critique (Question 1 of 9 - Mandatory)

Directions: Please complete the following table AFTER reading your journal article.

Background (Question 2 of 9 - Mandatory)

Summarize the background by answering the following questions. What is the research question or objective? Why is the problem significant? What is the primary objective of the study? Secondary objectives? What is the null hypothesis? Was there clear scientific background presented to support the study rationale? Was this study sponsored? (if yes, by whom?)

Study Design (Question 3 of 9 - Mandatory)

What type of study design was used? Was the study design appropriate for the research question? What are the advantages and disadvantages of the study design?
Methods  (Question 4 of 9 - Mandatory)

What was the study population used? Was the study population appropriate for the study? How was data collected?
How are subjects selected for enrollment?
What are the inclusion/exclusion criteria? Are these appropriate?

Endpoints/Outcomes  (Question 5 of 9 - Mandatory)

What are the key variables or outcomes measured? How are they defined and measured?
Are these variables appropriate for the study objective? Was the duration of the trial and follow-up appropriate?

Statistical Analysis  (Question 6 of 9 - Mandatory)

How was the data analyzed?
Do the selected statistical tests appear appropriate?
Was there a rationale provided for the use of the selected tests?
Results  *(Question 7 of 9)*

Baseline characteristics? Accountability for all enrollees? What are the findings of the original research question?
Are the results presented in a clear and understandable way? Are the findings consistent with the study purpose?
Are there any missing data? Were the results significant?

Author’s Conclusion (Question 8 or 9 – Mandatory)

What are the author's conclusions? Are the author's conclusions appropriate based on the results of the study?

Overall Critique

*(Question 9 of 9 - Mandatory)*
What is your conclusion from the study?

Strengths

Weaknesses

What additional questions does this study raise?

How does the results of the study contribute to the body of knowledge?
Patient Education Handout  (Question 1 of 1 - Mandatory)

Attach a copy of a Patient Education Handout that you have designed.
You are required to self-evaluate your performance and reflect on your experience in Reflection Reports for each of your advanced practice experiences. This Reflection Report will contribute to your final grade in the course. The Pre-APPE Reflection Report will include the questions listed below. This should be completed prior to attending your APPE.

**PRE-APPE Reflection**

What would you like to learn more about at this APPE?

What populations do you anticipate serving?

Why do you feel this service/information is important for the community?

Describe the site and/or organization for this APPE
Set 3 personal learning objectives for this APPE

How are you preparing for this APPE?
You are required to self-evaluate your performance and reflect on your experience by completing a Post-APPE Reflection Report for each of your advanced practice experiences. This will be achieved by answering the following questions. The Post-APPE Reflection should be completed within 7 days of completing the APPE experience.

Post-APPE Reflection

What tasks or activities did you perform?

Describe the population you encountered

Describe any problems you encountered during this experience. How did you resolve them?

Describe any memorable interactions (keep in mind patient confidentiality)
Provide examples that demonstrate your ability to work effectively with others.

How did the experience make a difference?

Describe how you achieved your 3 personal learning objectives (described in the pre-experience reflection). If not, explain why you were not able to achieve them.

If you could repeat the experience, what would you do differently? Why?

Having gone through the experience, what would you like to learn more about? In what ways has this experience enhanced your professional development as a student pharmacist?

What are your future goals for this type of activity/organization?
Subject:  
Evaluator:  
Site: Period:  
Dates of Course/Rotation:  
Course/Rotation: APPE Courseworks 2016-2016  
Form: Quality Activity APPE  

Attach a copy of a quality related project  
(Question 1 of 1 - Mandatory) 

Attach one of the following: 

a drug usage evaluation, 
a medication safety related audit a 
quality improvement project
Subject: 
Evaluator: 
Site: 
Period: 

**Dates of Course/Rotation:**

**Course/Rotation:** PHCY 901 Ambulatory Care Advanced Pharmacy Practice Experience

**Form:** Reflection on Counseling a patient APPE

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**Patient age** *(Question 1 of 7)*

- _____ <11
- _____ 12-17 years
- _____ 18-64 years
- _____ 65+

**Sex** *(Question 2 of 7)*

- _____ Male
- _____ Female

**Primary language spoken** *(Question 3 of 7 - Mandatory)*

**Topic patient educated on** *(Question 4 of 7 - Mandatory)*

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Give a brief discussion of the counseling session including any challenges that you encountered. *(Question 5 of 7 - Mandatory)*

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**Identify areas of strength** *(Question 6 of 7 – Mandatory)*

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**Identify areas to focus on for the enhancement/improvement in your patient counseling skills** *(Question 7 of 7)*
(Question 1 of 2 – Mandatory)

Identify a patient who is on dialysis. Review their medications and answer the following:

Determine if the medications ordered are appropriate for a patient on dialysis.
If not appropriate, make a recommendation for an alternative drug/dose/administration time that is compatible with dialysis.

(Question 2 of 2 – Mandatory)

Give an example of a drug dose adjustment for a patient with a creatinine clearance of less than 30.