Cover Sheet: Request 12354

Modification of the Doctor of Pharmacy (Pharm.D.) Curriculum

Info

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Description of request

Modifications to the Doctor of Pharmacy Curriculum are proposed based on faculty and students experiences with the new curriculum for the last 3 years and evaluation data from students. These changes have been approved by the College of Pharmacy faculty.

The modified curriculum will be effective for the Class of 2022 that will enter in Fall 2018.

Actions

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Major|Modify_Curriculum for request 12354

Info

Request: Modification of the Doctor of Pharmacy (Pharm.D.) Curriculum
Description of request: Modifications to the Doctor of Pharmacy Curriculum are proposed based on faculty and students experiences with the new curriculum for the last 3 years and evaluation data from students.

These changes have been approved by the College of Pharmacy faculty.

The modified curriculum will be effective for the Class of 2022 that will enter in Fall 2018.

Submitter: Diane Beck beck@cop.ufl.edu
Created: 2/23/2018 9:55:02 AM
Form version: 3

Responses

Major Name: Doctor of Pharmacy (Pharm.D.)
Major Code: PHA
Degree Program Name: Doctor of Pharmacy (Pharm.D.)
Effective Term: Fall
Effective Year: 2018

Proposed Changes: The College of Pharmacy faculty has approved changes in the Pharm.D. program based on experience/data from the first three years of offering the recently adopted curriculum.

The faculty has approved the following changes:

Year 1
1. Move Principles of Systems-Based Practice (PHA 5727) from Block 4 (Spring Semester) to Block 1 (Fall Semester). (This is only a change in semester offered)

2. Extend Principles of Drug Therapy Individualization I (PHA 5132) across both Blocks 3 and 4 rather than only Block 3. (In a pilot, this course has been extended into Block 4 for 2 weeks.) This course will continue to be a 4 credit hour course. (This is only a change in block offering during year 1-Spring semester)

3. Rather than a year-long 1 credit hour Personal and Professional development course, have a 0.5 credit hour each semester in year 1. The new courses are Personal and Professional Development I and Personal and Professional Development II (Requested by Registrar's office and already approved by UCC)

4. Increase the Community IPPE (PHA 5941) from 3 credit hours to 4 credit hours. (This will allow the program to better meet the new ACPE Accreditation Standards. The additional credit hour will come from a reduction in credit hours in year 4 Advanced Pharmacy Practice Experience courses.)

Year 2
5. Rather than a year-long 1 credit hour Personal and Professional development course, have a 0.5 credit hour each semester in year 2. The new courses are Personal and Professional Development III and Personal and Professional Development IV (Requested by Registrar's office and already approved by UCC)

Year 3
6. Reorganize courses in Block 13 so that the Patient Safety and Quality Course (PHA 5226C – 2 credit hours) and the Pharmacoepidemiology and Drug Safety course (PHA 5223 – 2 credit hours) are simultaneously offered over 7 weeks. (This only requires change in the course schedule within Block 13. No changes that require UCC approval are needed for these courses.)

7. Rather than a year-long 1 credit hour Personal and Professional development course, have a 0.5 credit hour each semester in year 3. The new courses are Personal and Professional Development V and Personal and Professional Development VI (Requested by Registrar's office and already...
approved by UCC)

Year 4
8. Require seven (7) APPE rotations during year 4 with each APPE being 6 weeks in length. (42 credit hours). UCC has recently approved the following and these align with ACPE 2016 Standards (Accreditation):
   A. General Medicine APPE (6 credit hours/ 6 weeks)
   B. Hospital Practice APPE (6 credit hours/ 6 weeks)
   C. Ambulatory Care APPE (6 credit hours/ 6 weeks)
   D. Community APPE (6 credit hours/ 6 weeks)
   E. Patient Care Elective 1 APPE (6 credit hours/ 6 weeks)
   F. Patient Care Elective 2 APPE (6 credit hours/ 6 weeks)
   G. Elective 3 - Non Patient Care or Pt Care APPE (6 credit hours/ 6 weeks) {May be either non patient-care or patient care}

9. Add a 1 credit hour course just prior to start of APPE rotations that would be called Advanced Pharmacy Practice Experience Readiness. This course will be offered during the Capstone week between the end of the 3rd year and start of the 4th year. The course will provide a weeklong (40 hr) experience that will simulate an APPE. (This new course has been approved by UCC. The credit hour will come from a reduction in credit hours in year 4.

10. Rather than a year-long 1 credit hour Personal and Professional development course, have a 0 credit hour course in Summer, a 0 credit hour course in Fall and a 1 credit hour course in Spring. The new courses are Personal and Professional Development VII, VIII, and IX respectively. Requested by Registrar's office and already approved by UCC)

Pedagogical Rationale/Justification Across all four years, changes in the Personal and Professional Development course sequence have been made based on recommendations by the UF Registrar and UCC has already approved changes in these courses.

With respect to changes in year 1, student feedback from the 2015-16, 2016-7, and Fall 2017 cohorts have consistently indicated that the workload during Year 1-Block 1 is the lightest of the entire year and that Block 4 is very heavy. This was noted in the spring 2016 Curriculum Retreat with 1PD student leaders, block midpoint evaluations during 2015-16, course evaluations in 2015-16 and 2016-17, and feedback from class representatives.

Feedback in spring 2016, also indicated during Year 1-Block 3, the Principles of Drug Therapy Individualization I course (PHA 5132) was too short and it did not allow sufficient time to grasp the calculations that are learned during the course. Based on this feedback, in spring 2017, a pilot was done where the Principles of Drug Therapy Individualization I course was extended by 2 weeks into Block 4 and the Personal and Professional Development II course was changed to a standalone course of Principles of Law & Ethics. The additional time in Block 4 for the Principles of Drug therapy Individualization I course by 2 weeks improved the ability of students to grasp calculations.

At the end of year 1, the Community Introductory Pharmacy Practice Experience is being increased from 3 cr hr to 4 credit hours. This will allow the program to better meet ACPE Accreditation requirements.

In fall of year 3 (Block 13), the Patient Safety and Quality Course (PHA 5226C – 2 credit hours) and the Pharmacoepidemiology and Drug Safety course (PHA 5223 – 2 credit hours) were each 3.5 weeks in duration. These courses were taught for the first time in fall 2017 and feedback from faculty and students is that the pace of these courses would be better if they were offered simultaneously in a 7-week period. No changes are being made within these courses that will require UCC approval.

At the end of year 3, a 1 credit hour course just prior to start of APPE rotations called Advanced Pharmacy Practice Experience Readiness has been added. This course will be offered during the Capstone week between the end of the 3rd year and start of the 4th year. The course will provide a weeklong (40 hr) experience that will simulate an APPE. This also addresses recent changes in ACPE Accreditation Standards. UCC has already approved this course.
In year 4, the changes will allow the program to better meet ACPE Accreditation requirements. Also, all Pharm.D. programs in the State of Florida collaborate as a consortium and use the same APPE calendar and historically APPEs have each been 4 weeks in duration. This allows for coordination across the practice sites that are often used by multiple Pharm.D. programs for APPEs. The UF curriculum has historically required 11 APPEs that are each 4 weeks in duration (44 credit hours). This consortium recently agreed to revise APPEs so they are 6 weeks in duration. Experiential leaders across all programs advocated for this change since rotations that are longer in duration allow students to more fully develop their practice skills during each rotation and it allows more efficient use of sites where we tend to have a shortage of rotation offerings (e.g., Ambulatory Care APPE). The curriculum as approved on May 1, 2014 denoted there would be 44 weeks of APPEs and did not specify the types of rotations that would comprise these 44 credit hours. (The specific rotations were listed as TBA.)

**Impact on Enrollment, Retention, Graduation** The new curriculum is effective for the student class entering Fall 2018 into the Doctor of Pharmacy curriculum.

The following outlines a revised Curricular Plan for Classes of 2019, 2020 and 2021 that will allow them to experience these changes as much as possible. The plan below has been previously discussed with Dr. Angela Lindner:

1. The classes of 2019, 2020, and 2021 need adjustment in their study plan due to the change in 4th year experiential from 44 to 42 credit hours. (Theses are the class cohorts that had "TBA" listed with respect to their 4th year APPEs.)
   A. Class of 2019 (entered in Fall 2015)
      This cohort needs to complete 44 credit hours during the Summer, Fall and Spring semesters. In Year 4, offer the Advanced Pharmacy Practice Experience Readiness course (1 credit hour) and a Self-Directed Learning course that will focus on preparation for the NAPLEX and MPJE exams (1 credit hour) in addition to the 42 cr hrs of APPEs. Consistent with the curriculum they began upon matriculation, this would maintain 44 cr hrs in year 4 with these two courses and the APPEs being experiential related. (Note – this cohort has already completed the Community Introductory Pharmacy Practice Experience. This is the reason that one of the two open credit hours was not used for the Community Introductory Pharmacy Practice Experience.)
   B. Class of 2020 (entered in fall 2016)
      Same as Class of 2019
   C. Class of 2021 (entered in fall 2017)
      This cohort will complete a 4 cr hr Community Introductory Pharmacy Practice Experience instead of 3 cr hr in summer 2018. (The 1st year summer experience will be 1 week longer but their weeks of experiences in year 4 will be two weeks shorter. Therefore, the overall length of the curriculum for this cohort is actually 1 week shorter in duration. As a result, their course of study is not extended and graduation date is unchanged.)
      In year 4, students will complete the 1 cr hr Advanced Pharmacy Practice Experience Readiness course. This cohort will also complete Personal and Professional Development VII, VIII, and IX in year 4 as “C” courses. The designation as a “C” course allows for a self-directed learning format that includes learning related to preparation for the NAPLEX and MPJE. (Based on trends in board pass rates at a national level, such preparation is now commonly done during the 4th year as students complete their APPEs.)
      **The semester of graduation for all class cohorts will remain the same. The courses were are using for these 2 cr hrs are practice/experiential related and therefore, no more difficult than those in the Fall 2015 curriculum plan.**
# New 2015 UF COP PharmD Curriculum –First Year (1PD)

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**ORIENTATION**

- **Principles of Patient Centered Care**
  - Communication, Pharmaceutical Care, patient workup, Informatics & Patient Safety
  - 2 Cr Hr

- **Population Health**
  - Social determinants of health, health disparities, wellness strategies
  - 2 Cr Hr

- **Personal & Professional Development I**
  - Critical Thinking, Problem-solving, Interprofessional - Collaborator
  - 1 Cr Hr

**Change from a year-long course**

- **Interprofessional Education – IFH**: A requirement of the Personal and Professional Development Courses; Hours count towards IPPE.

**Professional Practice Skills I (1 Cr Hr)**: Patient interviewing, communications, patient assessment, compounding.

**Change from a year-long course**

**Personal Development/Remediation Semester Break**

- **Pathophysiology & Patient Assessment I**
  - 3 Cr Hr

- **Principles of Medicinal Chemistry and Pharmacology I**
  - Principles of medicinal chemistry and pharmacology. Structure Activity Relationships; Molecular and cellular mechanisms of action.
  - 3 Cr Hr

**Spring Break**

- **Drug Delivery Systems**
  - Drug formulations, as well as devices used for drug delivery and targeted drug delivery.
  - 4 Cr Hr

- **Principles of Drug Therapy Individualization**
  - Mechanisms underlying drug response. Include biopharmaceutics, pharmacokinetics, and pharmacogenetics.
  - 4 Cr Hr

**Capstone Assessment/Remediation/Summer Break**

- **Patient Care 1**: Integrated Module on Self-Care, OTC, drug supplements/herbals, etc.
  - 3 Cr Hr

- **Principles of Medicinal Chemistry and Pharmacology II**
  - Principles continued.
  - 1 Cr Hr

**Personal & Professional Development II**

- **Principles of Drug Therapy Individualization**
  - Continued.
  - 1 Cr Hr

**Interprofessional Education – IFH – ongoing**

- **Professional Practice Skills II (1 Cr Hr)**: Patient assessment, compounding, communications (continues), Drug Information, literature evaluation, patient self-care, dispensing, patient safety.

**Move to Yr 1-Block 1**

**Increase Community IPPE from 3 cr to 4 cr hr**

**Milestone 1**
## New 2015 UF COP PharmD Curriculum –Second Year (2PD)

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### Patient Care 2: Introduction to Infectious Disease and Heme/Onc
- **Principles of Medicine, Immunology, & Virology**: 2 Cr Hr
  - **Principles of Pathophysiology (1 Cr Hr)**
  - **Electives (2 Cr Hr)**
  - **Principles of Pharmacoeconomics (1 Cr Hr)**
  - **Personal Development/Remediation**
  - **Sterile Compounding (1 Cr Hr)**
  - **Capstone Assessment/Remediation**
  - **Personal and Professional Development** (1 Cr Hr) (Ongoing with Milestone requirements in Week 18)
  - **Interprofessional Education** – Ongoing activities per campus plans – grading can be linked to Personal & Prof Development course.

### Patient Care 3: Cardiovascular/Pulmonary
- **Patient Care 4: GI/Renal**
  - **Principles of Pharmacoeconomics (1 Cr Hr)**
  - **Personal Development/Remediation**
  - **Sterile Compounding (1 Cr Hr)**
  - **Capstone Assessment/Remediation**
  - **Personal and Professional Development** (1 Cr Hr) (Ongoing with Milestone requirements in Week 18)
  - **Interprofessional Education** – Ongoing activities per campus plans – grading can be linked to Personal & Prof Development course.

### Patient Care 5: Endocrinology and Reproductive
- **Patient Care 4: GI/Renal**
  - **Principles of Pharmacoeconomics (1 Cr Hr)**
  - **Personal Development/Remediation**
  - **Sterile Compounding (1 Cr Hr)**
  - **Capstone Assessment/Remediation**
  - **Personal and Professional Development** (1 Cr Hr) (Ongoing with Milestone requirements in Week 18)
  - **Interprofessional Education** – Ongoing activities per campus plans – grading can be linked to Personal & Prof Development course.

### Milestone 2
- Change from a year-long course
New 2015 UF COP PharmD Curriculum –Third Year (3PD)

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**Patient Care 6:**
Skin and Musculoskeletal
3 Cr Hr
Students will apply the principles of pathophysiology, medicinal chemistry, pharmacology, pharmacotherapy, patient assessment, clinical pharmacokinetics, social and behavioral aspects of medical management, and self-care support related to the treatment of skin and musculoskeletal disorders.

**Electives (2 Cr Hr)**

**Semester Break**

**Patient Care 7:**
Brain and Behavior
6 Cr Hr
Students will apply the principles of pathophysiology, medicinal chemistry, pharmacology, pharmacotherapy, patient assessment, clinical pharmacokinetics, social and behavioral aspects of medical management, and self-care support related to the management and treatment of neurological and psychiatric disorders.

**Spring Break**

**Patient Care 8:**
Complex Cases
4 Cr Hr
This is a case-based capstone course that builds on the preceding Patient Care courses. The course will utilize comprehensive clinical cases of increased rigor and complexity that incorporate material from previous modules. The cases will also address treatment challenges in special populations and different health systems.

**Electives (2 Cr Hr)**

**Capstone Assessment/Remediation APPEs**

**Pharmacoepidemiology & Drug Safety**
2 Cr Hr

**Patient Safety & Quality**
2 Cr Hr

**Practice Management**
2 Cr Hr

**Pharmaceutical Law**
2 Cr Hr
This course will examine the federal and Florida state laws that impact the practice of pharmacy. Emphasis is on the legal principles applied by pharmacists in their daily decision-making.

**Professional Practice Skills V (1 Cr Hr):**
Traditional Skills Lab & OSCEs
OSCEs will be scheduled according to availability of Harrell Center
(Assess “Practice Ready” in Nov-Dec)

**Personal and Professional Development (1 Cr Hr) (Ongoing with Milestone requirements in Week 18)**
Change from a year-long course

**Interprofessional Education – Ongoing grading can be linked to Personal & Prof Development course**

**Professional Practice Skills VI (1 Cr Hr):**
(1 Cr Hr) Traditional Skills Lab
Students who did not pass “Practice Ready” OSCE will be re-tested.

**Personal and Professional Development - Ongoing**

**Interprofessional Education – Ongoing**

**Milestone 3**

3rd Year Capstone will be a 1 Cr Hr APPE Readiness course
### New 2015 UF COP PharmD Curriculum –Fourth Year (4PD)

#### APPEs (11 months of Rotations – Specifics TBD)

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- Milestone 4: OSCE
- Milestone 4: Other

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#### Year | Fall | Spring | Experiential | Total
---|------|--------|-------------|-------
1PD | 16   | 17     | 3           | 36    |
2PD | 17   | 16     | 4           | 37    |
3PD | 15   | 13     | 4           | 28    |
4PD | 1    | 44     | 44          | 45    |

**Revised Curriculum has 42 weeks of APPEs (7 rotations with each 6 weeks in duration). This will involve 42 cr instead of the original 44 cr that were planned.**

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**Offer as 0 cr in SU of 3PD year and in 4PD year: 0 cr in Fall and 1 in Spring**

3PD SU would include an APPE Readiness course. 42 weeks is now proposed in year 4.
## UF COP PharmD Curriculum – First Year (1PD) – Effective Fall 2018

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<td>Professional Development Semester Break</td>
<td>Personal &amp; Professional Development II (PHA 5022C) 0.5 Cr Hr - includes Interprofessional Education (IPE)</td>
<td>Professional Practice Skills II PHA 5162L 1 Cr Hr: Patient assessment, compounding, communications (continues), Drug Information, literature evaluation, patient self-care, dispensing, patient safety.</td>
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**ORIENTATION**

**Personal Practice Skills I PHA 5161L 1 Cr Hr:** Patient interviewing, communications, patient assessment, compounding.

**Personal & Professional Development I (PHA 5021C) 0.5 Cr Hr – Includes Interprofessional Education (IPE)**

**Professional Practice Skills I PHA 5161L 1 Cr Hr:** Patient interviewing, communications, patient assessment, compounding.
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**Patient Care 2:**
**Introduction to Infectious Disease and Heme/Onc**

**PHA 5782C**

4 Cr Hr

Introductory course in which students will apply the principles of pathophysiology, medicinal chemistry, pharmacology, pharmacotherapy, patient assessment, clinical pharmacokinetics, social and behavioral aspects of medical management, and self-care support related to the treatment of infectious diseases or hematologic or oncologic disorders. These topics will be covered further in subsequent modules.

**Patient Care 3:**
**Cardiovascular/Pulmonary**

**PHA 5267**

6 Cr Hr

Students will apply the principles of pathophysiology, medicinal chemistry, pharmacology, pharmacotherapy, patient assessment, clinical pharmacokinetics, social and behavioral aspects of medical management, and self-care support related to the treatment of cardiovascular and pulmonary disorders.

**Elective #1 (2 Cr Hr)**

**Principles of Pharmacoeconomics**

**PHA 5878C**

6 Cr Hr

Students will apply the principles of pathophysiology, medicinal chemistry, pharmacology, pharmacotherapy, patient assessment, clinical pharmacokinetics, social and behavioral aspects of medical management, and self-care support related to the treatment of gastrointestinal and renal disorders.

**Patient Care 4:**
**GI/Renal**

**PHA 5784C**

6 Cr Hr

Students will apply the principles of pathophysiology, medicinal chemistry, pharmacology, pharmacotherapy, patient assessment, clinical pharmacokinetics, social and behavioral aspects of medical management, and self-care support related to the treatment of gastrointestinal and renal disorders.

**Elective #2 (2 Cr Hr)**

**Sterile Compounding**

**PHA 5104**

1 Cr Hr

Students will apply the principles of pathophysiology, medicinal chemistry, pharmacology, pharmacotherapy, patient assessment, clinical pharmacokinetics, social and behavioral aspects of medical management, and self-care support related to the treatment of gastrointestinal and renal disorders.

**Spring Break**

**Patient Care 5:**
**Endocrinology and reproductive**

**PHA 5787C**

6 Cr Hr

Students will apply the principles of pathophysiology, medicinal chemistry, pharmacology, pharmacotherapy, patient assessment, clinical pharmacokinetics, social and behavioral aspects of medical management, and self-care support related to the treatment of disorders of the endocrine and reproductive systems.

**Elective Assessment**

**Institutional IPPE: PHA 5942**

4 Cr hr /Remediation/Summer Break

**Interprofessional Education – Ongoing activities– grading linked to Personal & Prof Development course**

**Professional Practice Skills III**

**PHA 5163L**

1 Cr Hr: Horizontal & Vertical Integration of Skills and Individual Student Assessment

**Personal and Professional Development**

**PHA 5023C**

(0.5 Cr Hr)

**Personal and Professional Development**

**PHA 5024C**

(0.5 Cr Hr)

**Interprofessional Education**

**Professional Practice Skills IV**

**PHA 5164L**

1 Cr Hr: Horizontal & Vertical Integration of Skills and Individual Student Assessment

**Personal and Professional Development**

**Interprofessional Education**
# UF COP PharmD Curriculum – Third Year (3PD) - Effective Fall 2018

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<tr>
<th>Block 13</th>
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<td><strong>Patient Safety &amp; Quality</strong></td>
<td><strong>Patient Care 6:</strong></td>
<td><strong>Pharmacoepidemiology and Drug Safety</strong></td>
<td><strong>Patient Care 7:</strong></td>
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<td>PHA 5226C 2 Cr Hr</td>
<td>Skin and Musculo-skeletal</td>
<td>PHA 5788C 3 Cr Hr</td>
<td>Brain and Behavior</td>
<td>Complex Cases</td>
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<td>PHA 5222 2 Cr Hr</td>
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<td>PHA 5789C 6 Cr Hr</td>
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<td>Students will apply the principles of pathophysiology, medicinal chemistry, pharmacology, pharmacotherapy, patient assessment, clinical pharmacokinetics, social and behavioral aspects of medical management, and self-care support related to the management and treatment of neurological and psychiatric disorders.</td>
<td>This is a case-based capstone course that builds on the preceding Patient Care courses. The course will utilize comprehensive clinical cases of increased rigor and complexity that incorporate material from previous modules. The cases will also address treatment challenges in special populations and different health systems.</td>
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<td>OSCEs will be scheduled according to availability of Harrell Center (Assess “Practice Ready” in Nov-Dec)</td>
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<td>Students who did not pass “Practice Ready” OSCE will be re-tested.</td>
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Milestone 3 – Part 1

Milestone 3 – Part 2

Professional Practice Skills V (1 Cr Hr): PHA 5165L Traditional Skills Lab & OSCEs
OSCEs will be scheduled according to availability of Harrell Center (Assess “Practice Ready” in Nov-Dec)

Personal and Professional Development V (0.5 Cr Hr) PHA 5025C
Interprofessional Education – Ongoing activities– grading linked to Personal & Prof Development course

Professional Practice Skills VI (1 Cr Hr): PHA 5166L (1 Cr Hr) Traditional Skills Lab
Students who did not pass “Practice Ready” OSCE will be re-tested.

Personal and Professional Development VI (0.5 Cr Hr) PHA 5026C
Interprofessional Education – Ongoing
UF COP PharmD Curriculum – Summer of 3PD and Fall/Spring of Fourth Year (4PD) - Effective Fall 2018

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**Advanced Pharmacy Practice Experiences (APPEs) - 42 Weeks**

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<th>Personal &amp; Professional Development VII – PHA 5027C (0 Cr Hr)</th>
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<th>Personal &amp; Professional Development IX – PHA 5029C (1 Cr Hr)</th>
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7 APPEs – Each 6 Weeks:
PHA 5761 General Medicine APPE
PHA 5762 Hospital Practice: APPE
PHA 5763 Ambulatory Care: APPE
PHA 5764 Community APPE
PHA 5765 Patient Care 1: APPE
PHA 5766 Patient Care 2: APPE
PHA 5767 Non Patient Care or Pt Care Elective: APPE

**Summary of Credit Hours**

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Milestone 4: OSCE
Milestone 4: Other