

# Cover Sheet: Request 14643

## Personalized Medicine Certificate Electives

### Info

Process	Certificate Close/Modify Ugrad/Pro
Status	Pending at PV - University Curriculum Committee (UCC)
Submitter	Karen Whalen whalen@cop.ufl.edu
Created	1/23/2020 11:00:13 PM
Updated	2/18/2020 8:01:07 AM
Description of request	The College of Pharmacy proposes a change to the elective offerings for the personalized medicine professional certificate. This change aims to expand the elective offerings with several recently developed courses which are specifically related to precision/personalized medicine. The proposed change would also remove two electives (Mammalian Molecular Biology and Forensic Genetics) which are not as strongly connected with the personalized medicine focus of the program.

### Actions

Step	Status	Group	User	Comment	Updated
Department	Approved	COP - Interdisciplinary Studies	Karen Whalen		1/24/2020
No document changes					
College	Approved	COP - College of Pharmacy	Shauna Buring		1/24/2020
No document changes					
Associate Provost for Undergraduate Affairs	Approved	PV - Associate Provost for Undergraduate Affairs	Casey Griffith		1/28/2020
No document changes					
University Curriculum Committee	Commented	PV - University Curriculum Committee (UCC)	Lee Morrison	Added to the February agenda. If approved, this will go into effect for the Summer B 2020 term with the publication of the 2020-2021 undergraduate catalog.	2/18/2020
Personalized Medicine cert cat copy.docx					
University Curriculum Committee	Pending	PV - University Curriculum Committee (UCC)			2/18/2020
No document changes					
Office of the Registrar					
No document changes					
OIPR Notified					
No document changes					
Student Academic Support System					
No document changes					
Catalog					
No document changes					
Academic Assessment Committee Notified					

Step	Status	Group	User	Comment	Updated
No document changes					
College Notified					
No document changes					

# Certificate|Close-Modify for request 14643

## Info

**Request:** Personalized Medicine Certificate Electives

**Description of request:** The College of Pharmacy proposes a change to the elective offerings for the personalized medicine professional certificate. This change aims to expand the elective offerings with several recently developed courses which are specifically related to precision/personalized medicine. The proposed change would also remove two electives (Mammalian Molecular Biology and Forensic Genetics) which are not as strongly connected with the personalized medicine focus of the program.

**Submitter:** Karen Whalen whalen@cop.ufl.edu

**Created:** 9/20/2019 10:26:37 AM

**Form version:** 1

## Responses

**Current Certificate Name** Certificate in Personalized Medicine

**Effective Term** Earliest Available

**Effective Year** 2020

**Requested Action** Other (selecting this option will open additional form fields below)

**Change Certificate Name?** No

**Change Certificate Name on Transcript?** No

**Current Transcript Name** Certificate in Personalized Medicine

**Change Credit Hours?** No

**Change Certificate Description?** No

**Change Certificate Prerequisites?** No

**Change Certificate Requirements?** Yes

**Current Requirements** Required Courses:

PHA5012: Clinical Applications of Personalized Medicine 2 cr hr

PHA5040: Pharmacogenomic Literature Assessment 1 cr hr

PLUS one of the following:

PHA5767: Patient Care Elective Advanced Pharmacy Practice Experience (focus on Personalized Medicine) 6 cr hr

PHA5907: Research in Pharmacotherapy and Translational Research (focus on Personalized Medicine) 4 cr hr

Elective courses:

At least 3 credit hours from the following options:

PHA 6852 Mammalian Molecular Biology 3 cr hr

PHA 6855 Forensic Genetics 3 cr hr

PHA 5930: Seminars in Pharmacy Research 2 cr hr

PHA 5929: UF Precision Medicine Conference 1 cr hr

**Proposed Requirements** Required Courses:

PHA5012: Clinical Applications of Personalized Medicine 2 cr hr

PHA5040: Pharmacogenomic Literature Assessment 1 cr hr

PLUS one of the following:

PHA5767: Patient Care Elective Advanced Pharmacy Practice Experience (focus on Personalized Medicine) 6 cr hr

PHA5907: Research in Pharmacotherapy and Translational Research (focus on Personalized Medicine) 4 cr hr

Elective courses:

At least 3 credit hours from the following options:

PHA 5930: Seminars in Pharmacy Research 2 cr hr

PHA 5929: UF Precision Medicine Conference 1 cr hr

GMS 5224: Foundations in Precision Medicine: Medical Molecular Genetics 1 cr hr

PHA 6134: Foundations in Precision Medicine: Genomic Technologies 1 cr hr

PHA 6136: Clinical Applications of Precision Medicine: Oncology 2 cr hr

PHC 6598: Foundations in Precision Medicine: Genetic Epidemiology 1 cr hr

PHA 6613: Clinical Applications of Precision Medicine: Precision Health 3 cr hr

PHA 6746: Patient Education and Communication in the Era of Precision Medicine 1 cr hr

PHA5767: Patient Care Elective Advanced Pharmacy Practice Experience (focus on Personalized Medicine) 6 cr hr (if not used to meet the required courses above)

PHA5907: Research in Pharmacotherapy and Translational Research (focus on Personalized Medicine) 4 cr hr (if not used to meet the required courses above)

**Impact on Program** The proposed changes are to the elective courses in the certificate program only. There are no proposed changes to the required courses. The proposed changes do not affect the ability of any student currently enrolled in the certificate to successfully complete the program. The broad array of electives will expand the breadth of personalized medicine knowledge students are able to gain in the certificate program, and should make the program more attractive to future students.

**Rationale for Proposed Change(s)** As the College of Pharmacy has successfully grown its precision medicine program over the last few years and has expanded the number of faculty in this area, this brings additional opportunity for a wider variety of course offerings in precision/personalized medicine.

While some of the recommended electives in the original certificate approval (PHA 6852 Mammalian Molecular Biology; PHA 6855 Forensic Genetics) were relevant to the overall content area of personalized medicine, they were not entirely devoted to the topic. It is recommended that these electives be removed from the current list of electives. Several new elective offerings which are focused specifically on precision/personalized medicine will be added to the list of electives from which students may choose. The new recommended elective offerings will broaden the student's foundational knowledge in the area of personalized medicine.

**Assessment Data Review** The SLOs for the personalized medicine certificate program are assessed in the required courses (and not the electives).

Although SLOs are not assessed in the elective courses, the variety of precision medicine electives should certainly help reinforce SLO 1 - Demonstrate foundational knowledge related to molecular mechanisms by which genomic variation affects drug response and SLO 3 - Interpret genetic test results into clinically actionable recommendations for patients and fellow clinicians.

The addition of the electives will support the overall program goal of successfully preparing Doctor of Pharmacy graduates who are able to use pharmacogenomics and genomic data to personalize treatment plans for patients in clinical practice.

**Academic Assessment Plan Changes** None - the SLOs for this program are assessed in the required courses

**UF COP Certificate in Personalized Medicine**

**Elective Courses (at least 3 credit hours)**

<b>Course</b>	<b>Credit Hours</b>	<b>Notes</b>
PHA 5930: Seminar in Pharmacy Research	2	Offered in the fall semester
PHA 5929: UF Precision Medicine Conference	1	Offered in the spring semester
GMS 5224: Foundations in Precision Medicine: Medical Molecular Genetics	1	Offered online every semester outside of block tuition. Estimated cost: \$575 (contact Student Affairs to enroll)
PHA 6134: Foundations in Precision Medicine: Genomic Technologies	1	Offered online every semester outside of block tuition. Estimated cost: \$575 (contact Student Affairs to enroll)
PHA 6136: Clinical Applications of Precision Medicine: Oncology	2	Offered online outside of block tuition. Estimated cost: \$1150 (contact Student Affairs to enroll)
PHC 6598: Foundations in Precision Medicine: Genetic Epidemiology	1	Offered online every semester outside of block tuition. Estimated cost: \$575 (contact Student Affairs to enroll)
PHA 6613: Clinical Applications of Precision Medicine: Precision Health	3	Offered online outside of block tuition. Estimated cost: \$1725 (contact Student Affairs to enroll)
PHA 6746: Patient Education and Communication in the Era of Precision Medicine	1	Offered online outside of block tuition. Estimated cost: \$575 (contact Student Affairs to enroll)
PHA5907: Research in Pharmacotherapy and Translational Research (must focus on Personalized/Precision Medicine)	1-4	If not used to meet the course requirement listed above
PHA5767: Patient Care Elective Advanced Pharmacy Practice Experience (must focus on Personalized/Precision Medicine)	6	If not used to meet the course requirement listed above