

New Program Code Replace Program Code

Date: 1/30/2024

REQUESTOR CONTACT INFORMATION

Name Shelby Iwamoto Campus UH Hilo
 Title Acad Curriculum & Grad Prg Offcr Email shelbyw@hawaii.edu
 Office/Dept Ofc Vice Chancellor for Acad Aff Phone 808-932-7927

NEW PROGRAM CODE TO CREATE

Institution HIL Campus HIL
 Level PR Effective Term Fall 2024

	Code (Max. Characters)	Description	Check if requesting new code:
College	(2) <u>PH</u>	<u>Daniel K. Inouye College of Pharmacy</u>	<input type="checkbox"/> See Banner form STVCOLL
Department	(4) <u>PHPP</u>	<u>Pharmacy Practice</u>	<input type="checkbox"/> See Banner form STVDEPT
Degree/Certificate	(6) <u>GCER</u>	<u>Subject Certificate</u>	<input type="checkbox"/> See Banner form STVDEGC
Major	(4) <u>PHRM</u>	<u>Pharmacy</u>	<input type="checkbox"/> See Banner form STVMAJR
Concentration	(4) <u>PI</u>	<u>Pharmaceutical Science Innovation</u>	<input type="checkbox"/> See Banner form STVMAJR
Minor	(4) _____	_____	<input type="checkbox"/> See Banner form STVMAJR

If a similar major/concentration code exists in Banner, please list the code: _____

Justification to warrant a new major/concentration code similar to an existing major/concentration code:

Requesting new code- PI: Pharmaceutical Science Innovation

Is this major/concentration code being used the same way at the other UH campuses? Yes No

Should this program be available for applicants to select as their planned course of study on the online application? *If yes, student may select the code as their only program of study.* Yes No

RULES PERTAINING TO FINANCIAL AID AND 150% DIRECT SUBSIDIZED LOAN LIMIT LEGISLATION

Is 50% or greater of the classes in this program offered at a location other than the Home Campus? Yes No

Is this program/major/certificate financial aid eligible? Yes No

Does this certificate qualify as a Gainful Employment Program (Title IV-eligible certificate program)? Yes No

See <http://www.ifap.ed.gov/GainfulEmploymentInfo/index.html>

Program Length

In academic years; decimals are acceptable. The length of the program should match what is published by the campus in any online and/or written publication.

4 years

Special Program Designations A B N P T U

See *Special Program Designations Code Definitions on IRAO Program Code Request webpage*

Required Terms of Enrollment: Fall Spring Summer Extended

EXISTING PROGRAM CODE TO REPLACE, IF APPLICABLE

Program Code _____	Program Description _____	
Institution _____	Campus <u>UH Hilo</u>	
College _____	Department _____	
Level _____		
Are current students "grandfathered" under the program code?		<input type="checkbox"/> Yes <input type="checkbox"/> No
Should the old program code be available for use in Banner?		<input type="checkbox"/> Yes <input type="checkbox"/> No
Effective 	, old program code will no longer be available to admit or recruit students.	
Term (ie. Fall 2020)		
<i>This will turn off the online application, recruitment (effects Banner forms SRASUMI and SRAQUIK) and admissions (effects Banner forms SAADCRV, SAAADMS, SAASUMI, SAAQUIK, and SAAQUAN) Banner modules.</i>		
Effective 	, old program code will no longer be available to award degree to students.	
Term (ie. Fall 2020)		
<i>This will turn off the general student (effects Banner form SGASTDN) and academic history (effects Banner form SHADEGR) Banner modules.</i>		

ATTACHMENTS

BOR Approved: Sole-credential Certificate, Associate, Bachelor and Graduate Degrees, and sole credential certificates

- BOR Meeting Minutes & Supporting Documents Curriculum

Chancellor Approved: Concentrations, Certificates and Associate in Technical Studies (ATS) Degree

- Memo from Chancellor to notify Vice President for Academic Planning and Policy regarding program action.
 Curriculum

CERTIFICATES ONLY: Please check one (1) statement. This certificate is a...	
<input type="checkbox"/> BOR approved certificate. BOR Meeting/Approval Date: _____	
<input checked="" type="checkbox"/> Chancellor approved within an authorized BOR program. BOR Program: <u>PHARMD-PHRM</u>	
<input type="checkbox"/> Chancellor approved CO in accordance with UHCCP 5.203, Section IV.B.10.	

VERIFICATIONS

By signing below, I verify that I have reviewed and confirm the above information that is pertinent to my position.

<p>Registrar (Print Name)</p> <p><u>Chelsea Kay-Wong</u></p> <p> _____ Signature Date</p>	<p>Financial Aid Officer (Print Name)</p> <p><u>Sherrie Padilla</u></p> <p> _____ Signature Date</p>	<p>For Community Colleges, verification of consultation with OVPC Academic Affairs:</p> <p><u>Tammi Oyadomari-Chun</u></p> <p>_____ Signature Date</p>
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ADDITIONAL COMMENTS

New program code: GCER-PHRM-PI: Pharmaceutical Science Innovation Graduate Certificate, Eff Fall 2024
 Curriculum Link: <https://hilo.kuali.co/cm/#/programs/view/655d3cc1b496bf00c79966fa>
 4 years because it has to be done within the PharmD








GCER-PHRM-PI- New Program Code Request Form F2024

Final Audit Report

2024-02-14

Created:	2024-01-31
By:	Shelby Wong (shelbyw@hawaii.edu)
Status:	Signed
Transaction ID:	CBJCHBCAABAA3H0h9-KT2fQKbc_YKD9qosWSul9F2Q9L

"GCER-PHRM-PI- New Program Code Request Form F2024" History

-  Document created by Shelby Wong (shelbyw@hawaii.edu)
2024-01-31 - 7:44:21 PM GMT- IP address: 132.160.127.240
-  Document emailed to Chelsea Kay-Wong (ckwong@hawaii.edu) for signature
2024-01-31 - 7:46:30 PM GMT
-  Document e-signed by Chelsea Kay-Wong (ckwong@hawaii.edu)
Signature Date: 2024-02-14 - 9:34:52 PM GMT - Time Source: server- IP address: 132.160.57.6
-  Document emailed to Sherrie Padilla (sherriep@hawaii.edu) for signature
2024-02-14 - 9:34:54 PM GMT
-  Email viewed by Sherrie Padilla (sherriep@hawaii.edu)
2024-02-14 - 9:41:22 PM GMT- IP address: 132.160.57.253
-  Document e-signed by Sherrie Padilla (sherriep@hawaii.edu)
Signature Date: 2024-02-14 - 9:41:41 PM GMT - Time Source: server- IP address: 132.160.57.253
-  Agreement completed.
2024-02-14 - 9:41:41 PM GMT



January 25, 2024

MEMORANDUM

TO: Bonnie D. Irwin
Chancellor
University of Hawai'i at Hilo

FROM: Keiki Kawai'ae'a *Keiki Kawai'ae'a*
Interim Vice Chancellor for Academic Affairs
University of Hawai'i at Hilo

SUBJECT: Request for Approval of New Program Codes for use at UH Hilo- Fall 2024

SPECIFIC ACTION REQUESTED:

We request that the following new program codes be approved for use. The below are new Subject Certificates and Graduate Certificates under a BOR approved program approved for Fall 2024 via the campus curriculum review process.

New Subject Certificates under a BOR approved degree program:

SC-ADJ-CRIM Criminal Justice
Home Program: BA-Administration of Justice
College of Arts and Sciences
*New Subject Certificate

SC-AG4-WLDS Wildlife Science
Home Program: BS- Agriculture
College of Agriculture, Forestry & Natural Resource Management
*New Subject Certificate

SC-KES-FITR Fitness Trainer Preparation
Home Program: BA-Kinesiology and Exercise Science
College of Natural and Health Sciences
*New Subject Certificate

New Graduate Certificates under a BOR approved degree program:

SC-PHRM-PI Pharmaceutical Science Innovation
Home Program: PharmD- Doctor of Pharmacy
Daniel K. Inouye College of Pharmacy
*New Graduate Certificate

Chancellor Bonnie D. Irwin
January 25, 2024
Page 2

SC-PHRM-VP Veterinary Pharmacy
 Home Program: PharmD- Doctor of Pharmacy
 Daniel K. Inouye College of Pharmacy
 *New Graduate Certificate

RECOMMENDED EFFECTIVE DATE:

We request the effective date of Fall 2024.

ADDITIONAL COST:

There is no additional cost associated with this request.

PURPOSE:

The purpose of this request is to request approval for new program codes from the UH System Institutional Research, Analysis and Planning (IRAPO) office for the above-mentioned degree programs and subject certificates.

ACTION RECOMMENDED:

We recommend that you approve the new program codes for use for the above-mentioned degree and certificate programs.

APPROVED/DISAPPROVED: Approved

Bonnie D. Irwin
Bonnie D. Irwin (Jan 25, 2024 09:15 HST)

Bonnie D. Irwin, Chancellor

Jan 25, 2024

Date

KK:si

Cc: Office of the Vice President for Academic Strategy (OVPAS)










Chancellors Memo Fall 2024 New Program Codes

Final Audit Report

2024-01-25

Created:	2024-01-25
By:	Shelby Wong (shelbyw@hawaii.edu)
Status:	Signed
Transaction ID:	CBJCHBCAABAAAdTgY1AXAICu7MzScCsZcu95LnGyV_Ftl

"Chancellors Memo Fall 2024 New Program Codes" History

-  Document created by Shelby Wong (shelbyw@hawaii.edu)
2024-01-25 - 5:40:59 PM GMT- IP address: 132.160.67.42
-  Document emailed to Keiki Kawaiaaea (keiki@hawaii.edu) for signature
2024-01-25 - 5:43:01 PM GMT
-  Email viewed by Keiki Kawaiaaea (keiki@hawaii.edu)
2024-01-25 - 6:34:20 PM GMT- IP address: 174.202.1.192
-  Document e-signed by Keiki Kawaiaaea (keiki@hawaii.edu)
Signature Date: 2024-01-25 - 6:35:08 PM GMT - Time Source: server- IP address: 174.202.1.192
-  Document emailed to Bonnie Irwin (bdirwin@hawaii.edu) for signature
2024-01-25 - 6:35:09 PM GMT
-  Email viewed by Bonnie Irwin (bdirwin@hawaii.edu)
2024-01-25 - 7:15:24 PM GMT- IP address: 66.8.150.105
-  Signer Bonnie Irwin (bdirwin@hawaii.edu) entered name at signing as Bonnie D. Irwin
2024-01-25 - 7:15:52 PM GMT- IP address: 66.8.150.105
-  Document e-signed by Bonnie D. Irwin (bdirwin@hawaii.edu)
Signature Date: 2024-01-25 - 7:15:54 PM GMT - Time Source: server- IP address: 66.8.150.105
-  Agreement completed.
2024-01-25 - 7:15:54 PM GMT

Program Code

Pharmaceutical Science Innovation Graduate Certificate

Approved | Fall 2024

Proposal Information

Workflow Status

Complete

Form Submission, Proposer

Submitted for Approval | Proposer

✓ Lara Gomez | 9/29/2023 8:04 PM

collapse ▼

Proposer Submission Notification, Proposer

Notification Sent | Proposer

✉ Lara Gomez

Curriculum Coordinator, Curriculum Coordinator

Approved | Curriculum Coordinator

✓ Shelby Iwamoto

Curriculum Office and Registrar Reviewed

10/05/2023 5:02 PM

✖ Cheri Keli'i-Marumoto

Department Chair, Pharmaceutical Sciences

Approved | Department Chair

✓ Dianqing Sun | 10/06/2023 11:27 AM

Proposer Update Notification, Proposer

Notification Sent | Proposer

✉ Lara Gomez

Division Chair, Daniel K. Inouye College of Pharmacy (DKICP)

Skipped | Division Chair

College Curriculum Review Committee Chair, Daniel K. Inouye College of Pharmacy (DKICP)

Approved | College Curriculum Review Committee Chair

✓ Bryce Fukunaga | 10/06/2023 11:36 AM

Senate Chair, Daniel K. Inouye College of Pharmacy (DKICP)

Skipped | Senate Chair

Associate Dean, Daniel K. Inouye College of Pharmacy (DKICP)

Approved | Associate Dean

✓ Lara Gomez | 10/06/2023 12:10 PM

Dean, Daniel K. Inouye College of Pharmacy (DKICP)

Approved | Dean

✓ Miriam Mobley Smith | 10/06/2023 11:30 PM

Proposer Update Notification, Proposer

Notification Sent | Proposer

✉ Lara Gomez

Grad Council Chair, Grad Council

Approved | Grad Council Chair

✓ Peter Mills

Graduate Council recommends approval: 11-0-0 11/3/2023

11/08/2023 1:04 PM

Proposer Update Notification, Proposer

Notification Sent | Proposer

☑ Lara Gomez

CCRC Chair, CCRC

Approved | CCRC Chair

✓ Kirsten Mollegaard

CCRC Recommends approval, reviewed and voted: 6-0-1 on 11/14/23

11/14/2023 12:11 PM

Proposer Update Notification, Proposer

Notification Sent | Proposer

☑ Lara Gomez

VCAA, VCAA

Approved | VCAA

✓ Keiki Kawai`ae`a | 11/19/2023 3:18 PM

Proposer Update Notification, Proposer

Notification Sent | Proposer

☑ Lara Gomez

Curriculum Coordinator - Final, Curriculum Coordinator

Approved | Curriculum Coordinator

– Shelby Iwamoto

✓ Cheri Keli'i-Marumoto

Printed and Included in Binder

11/21/2023 1:26 PM

Program Title

Pharmaceutical Science Innovation Graduate Certificate

Admin Use Only

Program Code

P) Proposal Details

P.1) This is a proposal for:

New certificate or minor track within an existing BOR approved Baccalaureate or Graduate program

Home Program

Daniel K Inouye College of Pharmacy

P.2) Proposal Summary

Pharmaceutical Sciences is an area that could offer a variety of job opportunities related to the drug discovery, development, and production of novel treatments. Currently, pharmacist professionals are rapidly growing in the pharmaceutical sciences and biopharmaceutical research and development arena. This certificate program is designed to give Pharm.D. students a basic foundation in pharmaceutical sciences research methods, with a focus on Hawaii's unique ecosystem, including locally grown natural products, natural products, and other infectious diseases. Students who complete this program will understand the principle of drug discovery and development techniques and challenges, including pre-clinical research to support FDA-approval drugs. This proposed program is offered by faculty in the Pharmaceutical Sciences (educator experts in the area of drug discovery of natural products, medicinal chemists, pharmaceuticals, and pharmacologists).

P.3) Proposal Rationale/Justification

This certificate program aims to train Pharm.D students with the knowledge, experience, skills and ability needed to succeed as a pharmacist expanding their career opportunities working within the pharmaceutical industries, government agencies, and academic research. See attached document.

P.4) Related Course(s)

PHPP 558 Business Administration Overview
 PHPP 572 Intro to Post-Graduate Residency Applications
 PHPS 545 Intro Pharm Chemistry Research
 PHPS 546 Intro Pharm Biology Research
 PHPS 554 Herbal Medicine & Hawaiian Med Plants
 PHPS 555 Geographic Medicine and Global Health
 PHPS 562 Disc & Dev of Blockbuster Drug
 PHPS 563 Current Advances in Neuropharmacology
 PHPS 567 Pharmacogenetics
 PHPS 569 Cancer Prevention
 PHPS 570 Drugs from the Ocean and Microorganisms
 PHAR 585 Advanced Pharmacy Practice Experiential Elective II
 PHAR 586 Advanced Pharmacy Practice Experiential Elective III

PHAR 570 Pharmacy Certificate Presentation - Proposal submitted
 PHPS 544 Advanced Laboratory Research - Proposal submitted
 PHPS 560 Advances in New Drug Approvals - Proposal submitted

P.5) Course(s) from Other Departments

No

P.6) Proposal Impact(s) - Resources

No

P.7) Department Vote

	DATE	APPROVE	NOT APPROVE	ABSTAIN
DEPT VOTE	2023/09/20	17	0	2

P.8) Proposal Supporting Documents**P.9) Proposer Notes**

Vote is from DKICP faculty senate.

1) Program Information

1.1) Degree Type

Graduate Certificate

1.2) Program Description

Description

Pharmaceutical Sciences is an area that could offer a variety of job opportunities related to the drug discovery, development, and production of novel treatments. Currently, pharmacist professionals are rapidly growing in the pharmaceutical sciences and biopharmaceutical research and development arena. This certificate program is designed to give Pharm.D. students a basic foundation in pharmaceutical sciences research methods, with a focus on Hawaii's unique ecosystem, including locally grown natural products, natural products, and other infectious diseases. Students who complete this program will understand the principle of drug discovery and development techniques and challenges, including pre-clinical research to support FDA- approval drugs. This proposed program is offered by faculty in the Pharmaceutical Sciences (educator experts in drug discovery of natural products, medicinal chemists, pharmaceuticals, and pharmacologists).

Mission

This certificate program aims to produce Pharm.D. graduates who are more competitive for career positions in the job market, particularly those involving biomedical sciences, biopharmaceutical, and biotechnology research companies. In addition, organizations like the Bio-Pharm industry, Non-profit research institutions, clinical pharmacies, Medical Science Liaisons, and Regulatory agencies.

Upon completion of this certificate, students will be able to:

1. Define the roles and importance of natural products in drug discovery and development;
2. Describe the general approaches and challenges related to drug discovery and the development process;
3. Identify the application of drug development concepts to Hawaii's natural environment and health issues;
4. Describe basic laboratory research methods used in the pharmaceutical sciences;
5. Implement laboratory techniques to test research hypotheses;
6. Understand and comply with laboratory safety procedures;
7. Demonstrate knowledge of the pharmaceutical research industry, including FDA approval of a new drug;
8. Apply knowledge of pharmaceutical sciences research in an advanced experiential setting, and improve their clinical skills.
9. Apply statistical analysis to research data, interpret results, and draw conclusions
10. Participate in a faculty-mentored research project, develop problem-solving skills, and sharpen critical thinking skills.
11. Develop oral and written skills and effectively communicate research and clinical data to a broad audience. Conduct one research project and submit the project for presentation at a conference.
12. Describe research innovation, technology transfer, and entrepreneurship.

Other objectives pertaining to Biomedical Sciences and Global Health will be based on selected elective courses of focus:

1. Synthesize fundamental knowledge in biomedicine and translational sciences.
2. Develop critical thinking skills for applying scientific knowledge in evaluating scientific literature.
3. Acquire skills for developing hypotheses, analyzing data, and interpreting and communicating results in the biomedical sciences.
4. Describe the major causes of morbidity and mortality worldwide, and how the risk for disease varies with regions.
5. Evaluate the challenges of health disparities in the community and globally.
6. Describe the major public health efforts to reduce disparities in global health.

7. Exhibit interprofessional values and communication skills that demonstrate respect for, and awareness of, the unique cultures, values, roles/responsibilities and expertise represented by other professionals and groups in global health.

1.3) Program Catalog Description

Curriculum- Total number of credits: 15

Student must complete the following courses during the P2-P3 Year

Course ID	Course	Credits
PHPS 554	Herbal Medicine & Hawaiian Med Plants	1
PHPS 555	Geographic Medicine and Global Health	1
PHPS 562	Disc & Dev of Blockbuster Drug	1
PHPS 570	Drugs from the Ocean and Microorganisms	1
PHAR 570	Pharmacy Certificate Presentation	1

Student must complete one (1) elective from the following list during the P2-P3 Year

PHPS 544	Advanced Laboratory Research	2
PHPS 545	Intro Pharm Chemistry Research	2
PHPS 546	Intro Pharm Biology Research	2

Student must complete two (2) electives from the following list during the P2-P3 Year

PHPP 558	Business Administration Overview	1
PHPS 560	Advances in New Drug Approvals	1
PHPS 563	Current Advances in Neuropharmacology	1
PHPS 567	Pharmacogenetics	1
PHPS 569	Cancer Prevention	1
PHPP 572	Intro to Post-Graduate Residency Applications	1

Student must complete one (1) of the following experiential electives during the P4 year

PHAR 585	APPE Elective II	6
PHAR 586	APPE Elective III	6

1.4) College

Daniel K. Inouye College of Pharmacy (DKICP)

1.5) Department

Pharmaceutical Sciences

2) Program Requirements

2.1) Minimum Number of Credits

15

2.2) Minimum GPA

2.0

2.3) Minimum Acceptable Grade

2.0

2.4) Program Notes**Criteria**

1. Must have completed P1 (first year) in the PharmD program
2. Must be in good academic standing.
3. Must complete PHAR 570.
4. Accepted students are responsible for working with the program coordinator to select a research mentor in an area of interest.

Who to contact:

Leng Chee Chang, MS, Ph.D., Professor

Email: lengchee@hawaii.edu

3) Attachments

- Justification_Pharm D Pharm Sci Certificate.doc
- CERT FINAL Pharmaceutical Science_Certificate .docx