

**The Daniel K. Inouye College of Pharmacy**  
**University of Hawaii at Hilo**  
**Description of the Doctorate in Pharmaceutical Sciences and**  
**Guide to Completing Your Application**



UNIVERSITY  
of HAWAII  
**HILO**



**PhD in Pharmaceutical Sciences Application Checklist**

<http://pharmacy.uhh.hawaii.edu/academics/graduate/admissions.php>

- UHH DKICP PhD Application Form
- UHH Residency Declaration Form
- \$50 Application Fee
- Personal Statement
- Resume
- Pre-Requisite Checklist
- Official Transcripts From All Colleges (must be received directly from the institution)
- Official Graduate Record Examination (GRE) Scores
- Three Letters of Recommendation

**International Applicants**

Foreign applicants must also submit:

- Official TOEFL or IELTS Academic Score Report
- Applicants with international transcripts are required to send their transcripts for professional evaluation by one of the credential evaluation service providers listed on our website
- International Graduate Student Supplemental Information Form (Required upon acceptance, not at time of application)  
<http://www.uhh.hawaii.edu/admissions/forms/documents/sup-form.pdf>

**Final Application Deadline: May 15, 2017**

**Program Description**

**PhD in the Pharmaceutical Sciences**

The Daniel K. Inouye College of Pharmacy at the University of Hawaii at Hilo offers a PhD in the Pharmaceutical Sciences. This program provides graduate training in the Pharmaceutical Sciences generally, as well as specifically in the areas of Medicinal Chemistry, Pharmacology, Pharmaceutics, and Pharmacognosy and is aimed at students with a BS, MS, or PharmD Degree, and those currently working in the field. Studies culminate with the award of a PhD in Pharmaceutical Sciences, with an emphasis on natural products discovery and development and their importance in Pharmacy and healthcare in general. The program utilizes the extraordinary intellectual, biological, physical and cultural diversity on the Island of Hawaii, and within both the State and Asia-Pacific Region, as a focus of investigation and study. The program prepares students for senior leadership positions in the Pharmaceutical Sciences in academia, research, education, government, industry and related fields - leaders who can identify, research, and problem solve issues related to the Pharmaceutical Sciences. The PhD program is designed to foster student development as critical thinkers, team players, self-directed interdisciplinary scholars and communicators. It is the only program of its type offered in the State of Hawaii and in the Pacific region generally.

**Application Process**

Applications and supporting documents should be sent to: University of Hawaii at Hilo (UHH), The Daniel K. Inouye College of Pharmacy (DKICP), Office of Student Services, PhD Program Admissions, 200 W. Kawili Street, Hilo, HI 96720.

All documents can be found online:  
<http://pharmacy.uhh.hawaii.edu/academics/graduate/admissions.php>

Applications are accepted and reviewed on a rolling basis until all spots are filled for the following Fall semester. The DKICP, Office of Student Services receives applications and supporting documents and maintains the applications through final notification. If you do not hear from us within 30 days of your submission of your application, please contact the DKICP Office of Student Services at (808) 932-7700. Applications which meet the admission criteria will be forwarded to the PhD in Pharmaceutical Sciences Admissions Committee for a comprehensive review and consideration into the program. *Please note: Meeting of the minimum requirements does not guarantee acceptance into the program. Acceptance into the program is competitive.*

**Admission Status**

The applicant's admission status is valid only for the semester to which the applicant is accepted. Applications for students who do not register or who withdraw from the University are voided but retained for a period of one (1) year. Students may reapply for admission to the next year by submitting a new application.

**Criteria for Admission**

Acceptance is granted at the discretion of the Pharmaceutical Sciences Admissions Committee based on the criteria below.

- Applicants must have a BS, MS, PharmD and/or equivalent degree.
- Applicants must have a minimum Grade Point Average of 3.0 out of 4.0 or the equivalent in the last 60 semester credits of undergraduate and in all post-baccalaureate work.
- Applicants are recommended to have successfully completed with a grade "C" or higher: General Biology I and II for Science Majors with Labs, General Chemistry I and II for Science Majors with Labs, Organic Chemistry I and II for Science Majors with Labs, Calculus 1 or Advanced Calculus. Students may have to take additional courses if proficiency cannot be demonstrated.
- A personal statement of objectives is required which includes applicant's background, professional goals and academic and research interests.
- Resume
- Official Graduate Record Examination (GRE) scores sent directly from ETS.
- You are required to submit 3 Letters of Recommendation using the "PhD Letter of Recommendation Form". The letters should be written by people who can speak of the applicant's educational ability, motivation, and character, and/or leadership experiences. At least one of your letters MUST be written by a Professor of one of the Natural or Physical Sciences. Please allow the Recommenders sufficient time to complete this form, and have them mail or e-mail the letter directly to the UHH DKICP, PhD Program Admissions Office.
- Completed SKYPE or equivalent electronic interview.

### For International Applicants:

- International applicants must submit an official TOEFL or IELTS score report unless the degree was conferred by an institution whose language of instruction is English. International students seeking Graduate Assistant positions with any instructional responsibility must demonstrate proficiency in English, defined as a TOEFL score of at least 600 on paper-based or 100 on internet-based test or an IELTS academic score report with a minimum score of 7.0.
- All applicants with international transcripts are required to send these transcripts for professional evaluation by one of the credential evaluation service providers listed on our website.
- International Graduate Student Supplemental Information Form (Required upon acceptance, not at time of application)  
<http://www.uhh.hawaii.edu/admissions/forms/documents/sup-form.pdf>

### Transfer of Credits

Requests for transfer of graduate credits must be made during the first semester in which the student is enrolled in the program. Only credit hours with a grade of B or better from accredited universities are transferable. Transfer credit hours must have been completed within five years preceding the date upon which the advanced degree is to be conferred by UH Hilo, and must not have been used to satisfy requirements for another degree. Students must submit a complete course syllabus for review by the Director of the PhD in Pharmaceutical Sciences Program. The PhD Program Committee will make the final determination if coursework is acceptable for transfer.

Regardless of any previous graduate experience, a minimum of 24 didactic credit hours must be taken at UH Hilo before a degree can be granted. A minimum of six credit hours earned under courses designated as "thesis" may be counted toward the Graduate Division's minimum residence requirement.

In cases where a graduate student wishes to take graduate coursework elsewhere for transfer credit during their tenure at UH Hilo, the course work must be pre-approved by the Director of the PhD Pharmaceutical Science Program. Petition for transfer of these credits must be completed within a semester of completion of coursework.

<i>Course Code</i>	<i>Title</i>	<i>Credits</i>
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#### Core Courses Required By All Students

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|----------|--|-----|
| PHPS 749 | Overview of the Pharmaceutical Sciences I  | (2) |
| PHPS 750 | Overview of the Pharmaceutical Sciences II | (2) |
| PHPS 718 | Lab Visits and Supervisor Selection        | (1) |
| PHPS 780 | Research Seminar                           | (1) |

### Electives

#### (Selected in Consultation with Major Advisor)

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|----------------|--|----------|
| PHPS 701       | Apoptosis and Angiogenesis in Disease Processes and Drug Development           | (1)      |
| PHPS 702       | Biological Evaluation of Natural Products                                      | (3)      |
| PHPS 703       | Cancer Biology   | (2)      |
| PHPS 704       | Combinatorial Chemistry & High Throughput Technologies in Drug Discovery       | (2)      |
| PHPS 705       | Designing Clinical Research  | (3)      |
| PHPS 706       | Environmental Toxicology   | (2)      |
| PHPS 707       | Genetics in Medicine   | (2)      |
| PHPS 708       | Isolation Methods for Natural Product Discovery                                | (2)      |
| PHPS 709       | Instrumental Methods and Structure Elucidation of Mainly Natural Products      | (2)      |
| PHPS 710 - 711 | Laboratory Animal Care, Management and Medicine I, II                          | (each 2) |
| PHPS 712       | Medical Cell Biology   | (2)      |
| PHPS 713 - 716 | Organic Medicinal Chemistry I, II, III, IV                                     | (each 2) |
| PHPS 717       | Medicinal Chemistry of CNS Drugs and Development of <i>in vivo</i> CNS Tracers | (2)      |
| PHPS 719       | Molecular Biology Techniques and Applications for Healthcare Professionals     | (2)      |
| PHPS 720       | Natural Products and Cancer Chemoprevention                                    | (2)      |
| PHPS 721       | Neuropsychopharmacology  | (2)      |
| PHPS 722       | Pharmaceutical Marketing   | (2)      |
| PHPS 723       | Pharmacognosy  | (2)      |
| PHPS 724 - 727 | Pharmacology I, II, III, IV  | (each 3) |
| PHPS 728       | Phytochemistry of Terrestrial Plants   | (2)      |
| PHPS 729       | Receptor Theory and Signal Transduction  | (2)      |
| PHPS 730       | Sample Collection, Documentation and Preservation                              | (1)      |
| PHPS 731       | Toxicants and Toxicity   | (3)      |
| PHPS 732       | Toxic Plant Natural Products and Their Therapeutic Potential                   | (2)      |
| PHPS 733       | Aerosol Physics in Medicine: Inhaled Drug Therapy                              | (1)      |
| PHPS 734       | Biotechnology Laboratory   | (2)      |
| PHPS 735       | Cell Cycle Progression and Apoptosis, Methodological Approaches                | (2)      |
| PHPS 751       | Biochemistry I- Biomolecules   | (3)      |
| PHPS 752       | Biochemistry II- Metabolism  | (3)      |
| PHPS 755       | Advanced Pharmaceuticals I, including Dosage Form Design and Processing        | (3)      |
| PHPS 756       | Advanced Pharmaceuticals II, including Dosage Form Design and Processing       | (3)      |

#### Dissertation

(1-12 per semester, minimum 56 total)

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| PHPS 799V | Directed Studies                           |  |
| PHPS 800  | Dissertation Research and Graduate Seminar |  |