

PhD, MS, and PharmD/PhD Dual-Degree Graduate Program Handbook

IDAHO STATE UNIVERSITY, COLLEGE OF PHARMACY
DEPARTMENT OF BIOMEDICAL AND PHARMACEUTICAL SCIENCES

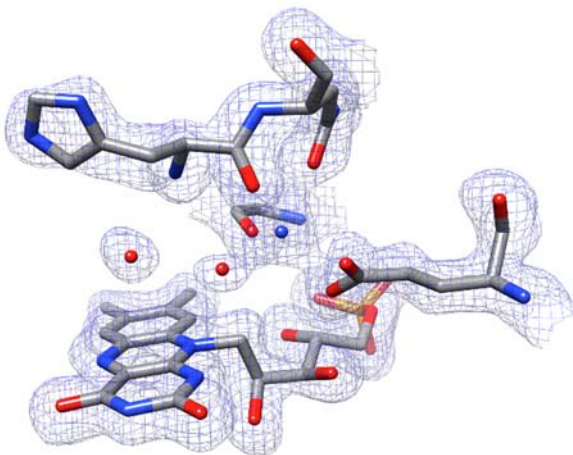


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I. MISSION, OBJECTIVES, AND INTRODUCTION

A. Mission Statement

The Department of Biomedical and Pharmaceutical Sciences, a multidisciplinary unit in the College of Pharmacy at Idaho State University, is the sole state program for post-graduate education in the various disciplines of the biomedical and pharmaceutical sciences. *The mission of the Department's graduate program is to train and prepare students to succeed in their chosen career path in one of the biomedical or pharmaceutical sciences disciplines.*

B. Objectives

Upon completion of training, graduates will be:

1. Rigorously trained in the pharmaceutical sciences;
2. Effective communicators of their knowledge and scientific findings;
3. Capable of using multidisciplinary approaches to problem-solving;
4. Competent practitioners of the scientific method; and
5. Adaptable to their long range goals.

C. Introduction

The Department of Biomedical and Pharmaceutical Sciences at the College of Pharmacy has approximately 15 full-time faculty who are responsible for generating research support from diverse sources such as the National Institutes of Health, National Science Foundation, Department of Energy and private industry and organizations. Affiliate faculty are located at the Boise Veterans Affairs Medical Center. The Department occupies research space in Leonard Hall, in Pocatello, and at the Health Sciences campus, in Meridian.

The Department is home to major research instrumentation for phosphorimaging and fluorescence imaging, high-performance and ultracentrifugation, calorimetry, gas and high-performance chromatography, NMR and infrared spectroscopy, light and electron microscopy. The Department also has instrumentation for and expertise in ELISA, PCR/qPCR, electrophoresis, radioimmunoassays, small animal surgery, cell culture, cell fractionation, protein expression and purification, protein crystallization, computational chemistry and various other molecular and structural biology techniques.

Research expertise and interests among the faculty cover **Drug Discovery and Development** (Medicinal Chemistry, Natural Products Chemistry, Computational Chemistry, Bioanalytical Chemistry, and Structural Biology), **Pharmaceutics** (Drug Dosage Forms and Delivery Systems), **Pharmacometrics** (Pharmacokinetics and Pharmacodynamics), and **Pharmacology/Toxicology** (Cancer, Neuro-, and Cardiovascular Pharmacology).

This handbook is provided to assist graduate students in accomplishing their academic and career objectives and to help them comply with the expectations for students pursuing a graduate degree within this department. The handbook constitutes a departmental supplement to the Idaho State University Graduate School Catalog. The handbook provides statements of the Department's expectations, resources and procedures. The student's

Graduate Committee and Advisor are available to assist in interpreting the guidelines presented here. It is the student's responsibility to use these resources and to comply with the requirements and expectations detailed here in addition to those covered by the ISU Graduate School Catalog.

II. ADMISSIONS, GENERAL REQUIREMENTS, AND GENERAL INFORMATION

A. Prerequisites

Candidates enrolling in the M.S. and Ph.D. degree programs must meet all requirements for admission to the Graduate School and have an adequate background in the biological and physical sciences. Minimum admission coursework requirements include two semesters of biological sciences and basic chemistry, calculus through integral calculus, and two semesters of organic chemistry with laboratory. Those students admitted without an adequate course background will be expected to make up deficiencies in addition to coursework required for their graduate program.

B. Admission to the Pharmaceutical Sciences Graduate Program

1. Inquiries about the Pharmaceutical Sciences Graduate Program are welcomed. Admission is accomplished according to the regulations of the Idaho State University Graduate School. All applications must be submitted to the Graduate School for processing.
2. The graduate faculty members of the Department of Pharmaceutical Sciences review applications each semester. Their recommendation is forwarded to the Chair of the Department of Pharmaceutical Sciences for approval and, subsequently to the Dean of the Graduate School, who has final authority on admissions.
3. Applications will be accepted for students seeking either the M.S. or Ph.D. degree on conditional status under certain conditions such as making up undergraduate deficiencies.
4. Minimum credentials and criteria are used by the Department of Pharmaceutical Sciences and the Graduate School in recommending and approving admission into the M.S. or Ph.D. Program. The credentials and criteria include:
 - a. Letters of recommendation from a minimum of three references who are familiar with the applicant's academic background.
 - b. All applicants must provide a personal statement of interest describing their career goals and identify which area of emphasis in the BPSCI graduate program the applicant intends to follow.
 - c. Professional degree in pharmacy or a baccalaureate degree in a related field with a Grade Point Average (GPA) of at least 3.00 or its equivalent in the final two years. Applicants unable to meet the above GPA requirement may be accepted as a conditional student.

- d. Official report of Graduate Record Examination Scores with a minimum combined score of 1,000 (old scale) or 300 (new scale) is required on the verbal and quantitative sections and at least 50th percentile in one of the GRE sections (verbal, quantitative, or Analytical). Applicants may be accepted as a conditional student with lower GRE scores.
 - e. All students must have a demonstrated proficiency in the English language. Students from countries where English is not the first language must demonstrate proficiency in the English language with a minimum score of 550 (paper test), 213 (computer-based test), or 79 (internet-based test) on the Test of English as a Foreign Language (TOEFL) OR an overall band of 6.5 on the Academic Examination of the International English Language Testing System (IELTS).
 - f. Other factors such as research publications, other evidence of scholarly work, strong recommendations by department graduate faculty, or compatibility of the applicant's career goals with department programs may influence the Admissions Committee to recommend conditional acceptance in the event that minimum qualifications have not been met.
5. Meeting minimum admission requirements does not ensure admission to the Department of Pharmaceutical Sciences Graduate Program.

C. Residency and Enrollment Requirements

1. Residency - All graduate students must satisfy the residency requirements of the ISU Graduate School (Form PSCI-4). All credits which are to be applied to an advanced degree must be earned as resident credits or accepted for transfer as described in the Idaho State University Graduate Catalog.
2. Maximum Enrollment - Graduate students who are graduate assistants can enroll for no more than 12 credit hours per semester.
3. Required Courses – In addition to courses required by the candidate's Graduate Committee, candidates must complete the following courses in order to be eligible for graduation:
 - a. PSCI 5508 – Responsible Conduct in Research – 1 credit (Ph.D. and M.S.)
 - b. PSCI 6605 – Critical Literature Evaluation – 6 credits (Ph.D.), 3 credits (M.S.)
 - b. PSCI 6601 – Graduate Seminar – 4 credits (Ph.D.), 2 credits (M.S.)
 - c. PSCI 6602 – Research Design and Analysis – 3 credits (Ph.D. and M.S.)
4. Credits Required for Degree Programs:
 - a. All students must complete department requirements and coursework recommended by the student's Graduate Program Committee.
 - b. For all graduate students, at least one half of the total graduate credit hours required by the student's Graduate Program Committee must be at the 6000 level.

- c. M.S. Degree – The department requirement is a minimum of 31 credits including at least 6 credit hours in Thesis Research (PSCI 6650).
- d. Ph.D. Degree – The department requirement is a minimum of 72 credits including a minimum of 18 credit hours in Dissertation Research (PSCI 6698) and 2 credit hours in Dissertation (PSCI 8850) completed following admission to candidacy.

D. Selection of Major Advisor and Graduate Program Committee

- 1. During the first year of the program, students are required to gain laboratory experience under the direction of several faculty members, as well as complete required courses.
- 2. Students will rotate through a minimum of two laboratories, assignments of which will be based on the student’s interest in the various areas of research offered in the Department, i.e., Drug Discovery, Pharmaceuticals, Pharmacometrics, and Pharmacology.
- 3. Student must choose a major advisor and laboratory in which to complete their research studies no later than the end of their second enrolled semester. The BPSCI Graduate Program Coordinator (or Department Chair in special cases) will act as temporary advisor until a major advisor is selected.
- 4. Students, in consultation with their major advisor, must form their Graduate Program Committee no later than the end of their third semester of enrollment. The Graduate Program Committee will act as a research advisory committee and the Examining Committee, as detailed below.

E. Responsibilities and Roles of the Governing Bodies of Graduate Education

- 1. Graduate Program Committee: The Graduate Program Committee's purpose is to advise the student in both research and academic matters, participate in evaluating the student’s progress, administer examinations, evaluate the student's research, and critically review the thesis or dissertation (Examining Committee as defined in the ISU Graduate Catalog).
 - a. The student’s Graduate Program Committee is chaired by their major advisor and selected by the student in consultation with the major advisor and approved by the Graduate Program Coordinator and Department Chair.
 - b. Committee Composition:
 - i. The Graduate Program Committee for the M.S. degree consists of the major advisor and two other faculty members, one of whom, the Graduate Faculty Representative (GFR), must be from outside the college and may be appointed by the Graduate School at the time of the defense.
 - ii. The Graduate Program Committee for the Ph.D. degree must consist of the major advisor and four other faculty members, one of whom, the Graduate Faculty Representative (GFR), must be from outside the college and may be appointed by the Graduate School at the time of the defense.

- c. Additional members may be added to the Graduate Program Committee; however, the majority of the Graduate Program Committee must be faculty members of the BPSCI Department and there should be an odd number of members at the time of thesis/dissertation defense.
 - d. The Graduate Program Committee should meet with the student as soon as is feasible to discuss and approve the proposed program of study. The first meeting should occur no later than the end of the first month of the Graduate Program Committee's formation.
 - e. The student or a Graduate Program Committee member may request change in committee membership; however, such a change must meet approval of all concerned. In the event of a conflict of opinion, the Graduate Program Coordinator or Department Chair will arbitrate the change.
2. Major Advisor: The major advisor is chosen by mutual interest and agreement between the student and faculty member, and communicated to the Graduate Program Coordinator and Chair of the Department. The major advisor advises the graduate student in the selection of courses, directs and supports the student's research, serves as an advocate in all academic matters and works with the Graduate Program Committee on the student's annual progress review.
 3. Graduate Faculty: Recommends acceptance into the Graduate School in the Pharmaceutical Sciences Program, interprets departmental policies and guidelines, and recommends changes in the Guidelines. Changes to the Graduate Student Guidelines will be distributed to and voted on by faculty members of the Department of Pharmaceutical Sciences and accepted by a majority vote.
 4. Graduate Program Coordinator: The Graduate Program Coordinator of the Biomedical and Pharmaceutical Sciences Department acts as temporary advisor to graduate students until permanent advisors are selected, chairs faculty meetings to screen graduate students applications and recommend acceptance, directly oversees graduate student progress, chairs meetings of appropriate stake-holders to track, revise, and refine the Department's graduate program, serves as a resource to answer graduate student questions and concerns, facilitates the creation of materials and activities to promote the BPSCI graduate program locally, nationally and internationally, serves as the primary contact person for potential graduate students and the Graduate School, and serves as a member of the College of Pharmacy's GEFAC committee (see below).
 5. Department Chair: The Chair of the Department of Biomedical and Pharmaceutical Sciences, as Head of the Department's Graduate Program, approves recommendations for admission, endorses the results of examinations and approves graduate student plans of study (Form PSCI-1).
 6. Graduate Education and Faculty Affairs Research Committee (GEFRAC): Develops policy and makes recommendations as required in all matters relating to graduate education and graduate degree programs in the College of Pharmacy.

6. Dean, College of Pharmacy: Administers teaching activities and faculty responsibilities. The Dean also administers college scholarships and fellowships.
7. Dean of the Graduate School: Administers and approves all official graduate student work, policy, and standards, unifies administrative procedures relevant to graduate study, including admissions policies, graduate programs, university-wide scholarships and fellowships and granting of degrees.

F. Annual Progress Report

1. The student must meet at least once per year with his/her Graduate Program Committee and provide them with a progress report.
2. As part of the annual student evaluation process, the student's Graduate Program Committee will complete the progress report form (Form PSCI-3).

G. Seminar Requirements

1. Throughout the program every graduate student (including PharmD/Ph.D. students in the PharmD portion of their training) is required to attend the regularly scheduled Departmental Seminar in both the fall and spring semesters and to give one formal seminar presentation each year. Students are required to register for Graduate Seminar credit (PSCI 6601, 1 credit) the semesters they will present. In addition, graduate students are expected to attend all other specially scheduled departmental seminars (i.e., Chu lectureship, thesis/dissertation defenses) as required by the Graduate Program Coordinator and/or Department Chair.
2. A final seminar is required of each graduate student. The seminar will be based on the results of the thesis/dissertation research after the research has been completed and prior to graduation. This seminar may be presented in PSCI 6601 or during a specially scheduled department seminar with all faculty and students invited for the presentation.

H. Journal Club Requirements

1. Throughout the program every graduate student (including PharmD/Ph.D. students in the PharmD portion of their training) is required to attend the regularly scheduled journal club (PSCI 6605, Critical Literature Evaluation) in both the fall and spring semesters. Students are required to present a minimum of one published manuscript, approved by the course director, for critical analysis and discussion.
2. Students will register for 1 credit hour of PSCI 6605, Critical Literature Evaluation, each semester they are enrolled with the exception of semesters they are enrolled in PSCI 8850, Dissertation Writing, or are in the final stages of completion of their thesis/dissertation. This is a repeatable course.
3. A minimum of 6 credits of PSCI 6605 is required for graduation for Ph.D. candidates and 3 credits for M.S. candidates.

I. Waiver of Course Requirements

1. A required course or a course on the student's program of study may be challenged or petitioned for substitution as follows: by the approval of the graduate faculty course director responsible for the course through the student's demonstrated competence; or by substituting an equivalent course taken at another institution.
2. When deemed necessary by the Graduate Faculty instructor responsible for that course, a special examination may be offered to meet these requirements. The examination will be scheduled with the consent of the Advisor and the Chair of the Department.
3. In addition to approval from the course director, approval must be obtained by the student's major advisor and graduate committee (if formed) with final approval required by the Graduate Program Coordinator and/or Department Chair.
4. A maximum of 9 semester credit hours may be petitioned.

J. Change of Degree Program

1. Once admitted to a particular degree or discipline program, a student cannot change to another degree or discipline program without a complete review of his/her application by the Graduate Program Coordinator and Chair of the Department.
2. In the event that a conflict between a student and his/her major faculty advisor arises, either party can bring the issue to the Chair of the Department for review. If a change in the major advisor is deemed necessary, a new major advisor will be selected and adjustments in the Graduate Program Committee will be made without a change in status of the graduate student. (See ISU Graduate Catalog for procedure).

K. Financial Support for Graduate Students

1. Financial support is dependent upon availability of College funds. Each spring all eligible students will be considered for financial support for the subsequent academic year. Joint-degree students become eligible for this financial support after completing the PharmD requirements (See PharmD/PhD section).
2. In no instance will a firm financial commitment be made to a student until all department admission requirements have been met and the student been officially admitted by the Graduate School.
3. Financial support, regardless of source, is contingent upon satisfactory progress toward research and academic goals as determined by the student's annual progress evaluation.
4. It is the policy of the Department that Departmental, College or University Teaching Assistantship positions are prioritized to Ph.D. students over M.S. students.

III. MS DEGREE PROGRAM REQUIREMENTS

A. Program of Study

1. The courses to be completed and applied toward the minimum credits required for the student's program must be listed on Form PSCI-1. A tentative program of study should be formulated within the student's first 12 months in the program, approved by the student's Graduate Program Committee (when formed), and forwarded to the Graduate Program Coordinator and Chair of the Department.
2. The program of study (Form PSCI-1) must include a minimum of six credits of thesis research (PSCI 6650).
3. Minimum graduate credit requirements (see Section II.C.4) may not necessarily fulfill departmental degree requirements.
4. A final program of study, approved by the Graduate Program Committee, must be submitted no later than the semester immediately preceding the semester the student intends to graduate. (See ISU Guidelines)

B. Research Proposal

1. The research proposal reviews and summarizes the literature in the proposed research area. It identifies rationale, objectives, and design of the proposed research project.
2. The research proposal must be submitted to the student's Graduate Program Committee for recommendations and approval no later than the third semester of enrollment for full time M.S. degree students. The initial research proposal should be discussed with the committee in advance and will provide a framework from which the student's thesis research will evolve. A copy of the proposal (Form PSCI-2) will be placed in the student's departmental file.

C. MS Degree Curriculum

1. Required Courses: A group of minimum required courses have been chosen to ensure that M.S. degree graduates will be capable of excelling within a multidisciplinary context. Students are expected to attain at least a B in required courses. The required courses are as follows:
 - a. PSCI 6601 – Graduate Seminar – 2 credits
 - b. PSCI 6602 – Research Design and Analysis - 3 credits
 - c. PSCI 6650 – Thesis Research - 6 credits (minimum)
2. Additional courses:
 - a. Courses pertinent to the student's area of study will be selected from the ISU Graduate Catalogue with the recommendation and approval of the student's Graduate Program Committee.
 - b. A minimum of 6 credits as electives from BPSCI graduate courses are required.

- c. An additional 12 credits from Biomedical and Pharmaceutical Sciences related courses (as determined by committee) are required.
 - d. Courses considered as deficiencies will not count toward the total M.S. credits and are listed separately on Form PSCI-1.
 - e. A grade below B is unsatisfactory and may not be counted toward fulfilling the minimum requirements for the degree.
3. Upon recommendation of the student's major advisor/Graduate Program Committee and with the approval of the Chair of the Department of Pharmaceutical Sciences, a student may be required to withdraw from the program at any time for failure to maintain satisfactory progress toward the degree.

D. Publication Requirement

1. Each graduate student is required to prepare one draft manuscript, detailing the results of their research studies, for submission to his or her Graduate Program Committee before his/her final examination (Form PSCI-6).

E. Thesis Requirement

1. The student will develop a complete thesis, in either the CBE or ACS style. The thesis must adhere to the ISU Graduate School guidelines and requirements (see <http://www.isu.edu/graduate/pdf/Thesis-Dissertation-Instructions.pdf>). The student can expect to go through several drafts before it is acceptable to the major advisor, and should allow two or three weeks for review by the major advisor per submission.
2. Once the major advisor approves a review draft (Form PSCI-8), a printed copy of the thesis will be circulated to the Graduate Program Committee members. The period for initial review should not exceed four weeks. However, if a faculty member requires additional time, that member should inform both the major advisor and the student in writing. If any Graduate Program Committee member requests revision with subsequent review, a revised copy, along with its respective review sheet will be returned to the Committee member for an additional review period of one week.
4. Prior to submission of the final draft of the thesis to the Graduate School, each member of the student's Graduate Program Committee must sign the signature page, signifying approval of the thesis.

F. Thesis Defense ("Final Examination" in the ISU Graduate Catalog)

1. Nature and Content of Thesis Defense
 - a. Each candidate for the Master's Degree, after completion of the thesis and at least three weeks before the degree is to be awarded, must pass a final oral thesis defense administered by the student's Graduate Program Committee. The defense will test the general knowledge of the candidate with particular reference to the major field of study, any minor subjects, and the student's thesis research.

- b. The date and place for the thesis defense is scheduled by agreement of the student and the major advisor in consultation with the Graduate Program Committee members and the Graduate School. The examination is advertised to all department faculty at least seven days before it takes place, with a copy of the advertisement being sent to the Graduate School.
- c. The student should be prepared to give a final seminar of his/her research (approximately 45-50 minutes) at the thesis defense. This seminar may be presented for credit in a Graduate Seminar (PSCI 6601), rather than as part of the final defense, if all Graduate Program Committee members can be present.

2. Results of the Thesis Defense

- a. Pass - The student's performance was satisfactory as determined by a 2/3 majority vote of the Committee. A vote to pass a student based upon his/her performance at the thesis defense does not imply approval of the thesis. An independent approval page exists for the thesis.
- b. Failure - A student who fails a final examination may be allowed a second opportunity within the following semester upon recommendation of the Graduate Program Committee. Failure of the second thesis defense will result in dismissal from the Graduate School.

IV. PH.D. DEGREE PROGRAM REQUIREMENTS

A. Program of Study

1. Form PSCI-1 is a listing of courses to be completed and applied toward the minimum credits required for the student's program. A tentative program of study should be formulated within the first 12 months in the program, approved by the student's Graduate Program Committee (when formed) and forwarded to the Graduate Program Coordinator, Chair of the Department of Pharmaceutical Sciences, and the Graduate School.
2. The program of study (Form PSCI-1) must include a minimum of 20 credits of Dissertation Research (PSCI 6698) and Dissertation (PSCI 8850) after admission to candidacy.
3. Minimum graduate credit requirements (See Section II.C.4) may not necessarily fulfill departmental degree requirements.
4. A final program of study, approved by the Graduate Program Committee, must be submitted the semester immediately preceding the semester the student intends to graduate. (See ISU Guidelines)

B. Research Proposal

1. The research proposal (Form PSCI-2) reviews and summarizes the literature in the proposed research area. It identifies rationale, objectives, and design of the proposed research project.

2. A tentative research proposal must be submitted to the student's Graduate Program Committee for recommendations and approval at least two weeks prior to the comprehensive oral defense for Ph.D. students. The initial plans for the research and format for the proposal should be discussed with the committee in advance and will provide a framework from which the student's dissertation research will evolve. A copy of the proposal (Form PSCI-2) will be placed in the student's departmental file.

C. Ph.D. Degree Curriculum

1. Required Courses: A group of minimum required courses have been chosen to ensure that the Ph.D. degree graduate will be capable of excelling within a multidisciplinary context. Students are expected to obtain at least a B in all required courses. The required courses are as follows:
 - a. PSCI 6601 – Graduate Seminar - 4 credits
 - b. PSCI 6602 – Research Design and Analysis - 3 credits
 - c. PSCI 6698 – Dissertation Research - 18 credits (minimum)
 - d. PSCI 8850 – Dissertation – 1 to 2 credits (minimum)
2. Additional courses
 - a. Courses pertinent to the student's area of study will be selected from the ISU Graduate Catalogue with the recommendation and approval of the student's Graduate Program Committee.
 - b. A minimum of 9 credits as electives from BPSCI graduate courses are required.
 - c. An additional 17 credits from Biomedical and Pharmaceutical Sciences related courses (as determined by committee) are required.
 - d. Courses considered as deficiencies are not included in the calculation and are listed separately on Form PSCI-1.
 - d. A grade below B is unsatisfactory and may not be counted toward fulfilling the minimum requirements for the degree.
3. Upon recommendation of the student's major advisor/Graduate Program Committee and with the approval of the Chair of the Department of Pharmaceutical Sciences, a student may be required to withdraw from the program at any time for failure to maintain satisfactory progress toward the degree.

D. Teaching Requirements for Ph.D. Students

1. A teaching experience, beyond that required of a teaching assistant, and designed to assist the student in attaining the poise and organizational skills expected of an individual holding the Ph.D. Degree is provided through a requirement that each student actively participate in the teaching of at least one course.

2. The student's Graduate Program Committee, in conjunction with the course instructor, will decide how the student will best satisfy this obligation (Form PSCI-5).

E. Publication Requirement

1. Each student is required to prepare one draft manuscript, detailing the results of their research studies, for submission to the Graduate Program Committee before his/her final examination (Form PSCI-6).
2. Ph.D. students are ordinarily expected to write the data reported in their dissertation in manuscript format and are strongly encouraged to submit the resulting manuscripts to appropriate journals for publication before leaving the Department of Pharmaceutical Sciences.
3. This is considered a minimum requirement and the student's major advisor and/or Graduate Program Committee may impose stronger publication requirements for graduation.

F. Comprehensive Examination for Ph.D. Candidacy

1. Nature and Content of Candidacy Examination

- a. To advance to candidacy each Ph.D. student must successfully complete a comprehensive examination composed of a written examination and oral examination.
- b. The comprehensive examination should be given after all requirements are completed (generally not less than 48 credit hours) and upon the recommendation of the student's Graduate Program Committee.
- c. The written candidacy examination in Pharmaceutical Sciences must be taken by the end of the third year of study exclusive of time spent solely on remedial coursework.
- d. Candidacy status must be reached a minimum of least two semesters prior to the defense of the dissertation.
- e. The results of the comprehensive examination for candidacy will be reported to the Graduate School. The results will also be appropriately filed in the student's departmental records and reported on Form PSCI-7.

2. Advancement to Candidacy Requires:

- a. Successful completion of written examination.
- b. Acceptance by the Graduate Program Committee of the written research proposal submitted at least two weeks prior to the oral examination.
- c. Successful completion of the oral examination.

3. Written Examination

- a. All faculty in the Department of Pharmaceutical Sciences must receive an invitation to participate. This is accomplished by an Examination Announcement under the

signature of the major advisor. This announcement must be made at least one week prior to the examination.

- b. Each Graduate Program Committee member *shall* and the department graduate faculty *may* submit written examination questions to the major advisor by the deadline indicated in the Examination Announcement. Any pertinent information, such as a time limit or open or closed book, must be transmitted to the major advisor along with the questions.
- c. The major advisor will compile the written examinations and submit them to the Chair of the Department of Pharmaceutical Sciences for approval prior to administering the examination.
- d. The entire examination should not exceed a total of 12 hours over three consecutive days. The questions for each Graduate Program Committee member will be limited to two hours and the remaining time designated for the additional (non-committee) questions.
- c. A majority of passing votes must be achieved for satisfactory completion of the written examination.

3. Oral Examination

- a. No later than the semester following satisfactory completion of the written examination, the committee will administer an oral examination.
- b. The oral examination shall include the defense of the student's written research proposal (prepared in the style of the NIH or NSF submission format) covering the research plan and supported by sufficient preliminary data.
- c. The oral examination presentation will be open to all Department of Biomedical and Pharmaceutical Sciences faculty with a closed Graduate Program Committee examination after the presentation.
- d. A majority of passing votes from the Graduate Program Committee must be achieved for satisfactory completion of the oral examination.

4. Comprehensive Examination - Failures

- a. The first failure of the comprehensive examination will result in one of the following options at the discretion of the student's Graduate Program Committee:
 - i. Within the following semester, adequately complete that portion of the comprehensive examination that was not passed. (Note: Satisfactory completion of the written examination is required before proceeding to the oral examination.)
 - ii. Enter terminal Master's program (i.e. not allowed to advance in the Ph.D. program).
 - iii. Exit the program (a majority vote of Graduate Program Committee is required).
- b. Second failure of the comprehensive examination will result in one of the following options at the discretion of the Graduate Program Committee:

- i. Enter a terminal Master's program.
- ii. Exit the program (a majority vote of Graduate Program Committee is required).

G. Dissertation Requirements

1. The process of writing a dissertation that is ultimately accepted by the Graduate School usually includes the following phases:
 - a. The student develops a complete dissertation, in the CBE or ACS style, formatted according to the Graduate School guidelines. The student can expect to go through several drafts before it is accepted and should allow two or three weeks for review by the major advisor per submission.
 - b. Once the major advisor approves a draft, a review sheet (Form PSCI-8) bearing the major advisor's signature and a printed copy of the dissertation will be circulated to the Graduate Program Committee members for initial review.
 - c. The period for initial review should not exceed four weeks. However, if a faculty member requires additional time, the member should inform both the major advisor and the student in writing.
 - d. If any Graduate Program Committee member requests revision with subsequent review, a revised copy, along with its respective review sheet will be returned to the Graduate Program Committee member for an additional review period of one week.
 - e. Prior to submission of the final draft of the dissertation to the Graduate School, each member of the student's Graduate Program Committee must sign the signature page, indicating their approval of the dissertation.

H. Dissertation Defense ("Final Examination" in ISU Graduate Catalog)

1. Nature and Content of Dissertation Defense
 - a. The dissertation defense for the Ph.D. degree will consist of a defense of the student's dissertation. In addition, questions may be asked on any subject areas recognized as deficient in the Candidacy Examination.
 - b. The date and place for the dissertation defense is scheduled by agreement of the student and the major advisor in consultation with the Graduate Program Committee members and the Graduate School. The defense is advertised to all departmental faculty at least seven days before the defense, with a copy of the advertisement being sent to the Graduate School.
 - c. The student should be prepared to give a final seminar of his/her research (approximately 45-50 minutes) at the dissertation defense. This seminar may be presented for credit in a Graduate Seminar (PSCI 6601).
2. Results of the Dissertation Defense
 - a. Pass - The student's performance was satisfactory as determined by a 2/3 majority vote of the Graduate Program Committee. A vote to pass a student based upon

his/her performance at the dissertation defense does not imply approval of the dissertation. An independent approval page exists for the dissertation.

- b. Failure - A student who fails a dissertation defense may be allowed a second opportunity in a subsequent semester only with the recommendation of the Graduate Program Committee. Failure of the second final exam will result in dismissal from the Graduate School.

V. **DUAL PHARM.D./PH.D. DEGREE PROGRAM**

A. **Objective of the Pharm.D. / Ph.D. Dual Degree Program**

The objective of the Pharm.D. / Ph.D. dual degree program at Idaho State University College of Pharmacy is to train qualified biomedical and pharmaceutical scientists for academic, industry, or government positions in the relevant scientific field. This program is intended for highly qualified applicants and is designed to reduce the total time needed for completion of the two degrees while maintaining the high standards of the individual programs. It is intended to increase the number of highly trained clinician-researchers that can operate at the interface of basic research and clinical care to facilitate a more rapid translation of medical innovation into benefit for the patient.

B. **Rationale and Need**

The impetus and rationale for the development of the dual-degree program has been stated in the recommendations of a report commissioned by the American Association of Colleges of Pharmacy entitled "Commission on the Future of Graduate Education in the Pharmaceutical Sciences", by D. J. Triggler and K. W. Miller:

"Students are presently attracted to pharmacy, because they are interested in interacting with patients and other health professionals to optimize the outcomes of drug therapy. The Pharm.D. degree is designed to provide these students with the knowledge, skills, and aptitudes to enable them to perform that task. Pharm.D. graduates who wish to obtain the research skills required to develop and evaluate new drugs or drug therapy regimens, have to obtain those skills "on the job" through a residency or fellowship. Although this mechanism has been adequate for some graduates, it has not produced a sufficient number of clinical pharmaceutical scientists who are capable of obtaining competitive extramural funding and promotion and tenure at leading research universities. There is a need and demand for competent clinical scientists in both the pharmaceutical industry and academia, since M.D.s. and M.D./Ph.Ds. are not filling these positions."

To address this need, Idaho State University's College of Pharmacy has committed to increasing the number of comprehensively educated pharmaceutical scientists. This program combines the existing PharmD with the PhD degree currently offered in the Department of Pharmaceutical Sciences. Students accepted into this joint-degree program, who demonstrate

acceptable progress, can expect to receive the PharmD and be eligible to be licensed as a pharmacist after completing the four-year professional degree program. The remaining portion of the joint-degree program will require a minimum of three additional years for completion of the requirements for a PhD degree. The total time for completion of the joint-degree program will be dependent on the individual student's background and progress. Overall, the program is designed to reduce the time normally required for a student to complete both degrees.

C. Requirements for Admission to the PharmD/PhD Program

1. Applicants must first be admitted to the PharmD program at Idaho State University's College of Pharmacy. For admission criteria and process see <http://pharmacy.isu.edu/live/pharmd/admissions.html>.
2. Applicants must hold a B.S. or a B.A. degree in one of the sciences, or must have completed three years of education at a college or university which will grant a B.S. or B.A. after completion of one year of education at ISU College of Pharmacy.
 - a. Preference will be given to applicants who have completed one year of physical chemistry and one year of calculus.
 - b. Additional courses in biochemistry, human anatomy, analytical chemistry, microbiology, advanced mathematics, and advanced organic chemistry are desirable but not required.
3. Applicants must meet all of the graduate student admission requirements as outlined above, including:
 - a. Minimum GPA of 3.0 on a 4.0 scale (or equivalent).
 - b. Minimum Graduate Record Examination combined score of 1,000 (old scale) or 300 (new scale) is required on the verbal and quantitative sections and at least 50th percentile in one of the GRE sections (verbal, quantitative, or Analytical).
 - c. Prior research experience, although not required, is strongly encouraged.

D. PharmD/PhD Program Application Process

1. Applicants interested in the dual-degree program must arrange a meeting with the Graduate Program Coordinator. Individuals applying to the PharmD/PhD program prior to matriculating to the PharmD program should schedule the meeting at the time of their interview for the PharmD program.
2. Students may be based at either the Pocatello or Meridian campus, depending on their research interests and the requirements of the graduate program.
3. An applicant must first be admitted to the PharmD program at the ISU College of Pharmacy. After receiving confirmation of admission, the applicant should contact the Graduate Program Coordinator, who will provide an Application for Admission to the PharmD/PhD Program Form (PSCI-10)
4. The application receipt deadline is April 1st. Applications should include:

- a. A completed application form.
 - b. A personal statement explaining why the applicant wants to pursue the PharmD/PhD dual degree program.
 - c. A description of previous research experience, including a letter from a previous research advisor if available.
 - d. GRE scores
 - e. Note – *Application materials already submitted for the PharmD application do not need to be resubmitted.*
5. Each applicant will be interviewed individually by the Graduate Program Coordinator.
 6. The Graduate Program Coordinator and GEFAC will review the application and make a recommendation for admission to the Department Chair and Dean.
 7. Applicants will be notified by May 1st on the success of their application.
 8. The application provides the student an opportunity to express interest(s) in specific research areas. This information will be utilized by the Graduate Program Coordinator to tailor the student’s research experience(s) during the summer preceding the 1st year of pharmacy school (if applicable). Typically, the student will have three (3) different research experiences (rotations) lasting 3-4 weeks each. The total length for the summer research experience is ten (10) weeks. Students who need to complete PharmD pre-requisites during the summer prior to their 1st professional year are required to inform the Graduate Program Coordinator as early as possible to discuss summer rotation scheduling modifications.
 9. Students enrolled in any later year of the PharmD program at ISU College of Pharmacy may also apply for admission to the PharmD/PhD program using the outlined process and timelines.

E. Program Requirements

1. Programs of Study - See Ph.D. Section IV A.
2. Research Proposal - See Ph.D. Section IV B.
3. Dual PharmD/Ph.D. Degree Curriculum
 - a. Students must meet all the requirements for the PharmD program. In addition, while in the PharmD portion of the curriculum, students are expected to make significant progress toward completion of the PhD coursework requirements for their respective disciplines.
 - b. Students must meet all the requirements for the Ph.D. degree, see the appropriate sections above.
 - c. Joint-degree students may enroll for no more than 22 credit hours per semester, of which a maximum of 7 credits may be from graduate courses. Students may exceed

these limitations only with the written permission of the Graduate Program Coordinator or Department Chair.

- d. Seminar and Journal Club participation is an integral part of the Graduate Program in the BPSCI Department. PharmD/PhD dual degree students are expected to attend departmental seminar and meetings of the Critical Literature Evaluation course (PSCI 6605) each semester, while enrolled in the PharmD section of the curriculum. Non-participation requires the permission of the Graduate Program Coordinator.
 - d. After completing the PharmD requirements the joint-degree student becomes a full-time Ph.D. student, and which time all applicable policies of the BPSCI graduate program as well as the Graduate School apply.
 - e. The PharmD curriculum has been modified to facilitate the integration of the PharmD and PhD programs as follows:
 - i. Students may take PhD coursework to satisfy the elective requirements of the PharmD program.
 - ii. Selected PharmD courses in the P1 year have been modified to include additional content to permit students to obtain PhD credit for these courses:
 - Principles of Pharmacology I (PSCI 6618) for Biological Basis of Drug Action I (PHAR 9921)
 - Principles of Pharmacology II (PSCI 6619) for Biological Basis of Drug Action II (PHAR 9922)
 - iii. The Spring semester of the P4 year is available for full-time PhD coursework.
4. Clinical Rotations – Students are required to take a minimum of seven (7) months of Advanced Practice Professional Experiences (APPE) and one (1) Introductory Professional Practice Experience (IPPE).
5. Research Experience
- a. Once admitted, students will begin the program the summer prior to the fall semester of their first year in the PharmD program. During this summer, the student will work with BPSCI faculty members to obtain an overview of research programs in the Department, as well as to gain initial experience conducting research.
 - b. The assignments will be based on the student’s research interest in the various disciplines in the Department, i.e. Drug Discovery, Pharmaceuticals, Pharmacometrics, Pharmacology.
 - c. During the fall and spring semesters of P1, P2, and P3 professional years, PharmD/PhD dual degree students are required to work for a minimum of 6 hours per week in the research setting of their major advisor. *Students may receive graduate credit for this work in research techniques and skills (PSCI 6604, Research Practicum and PSCI 6606, Selected Techniques in the Laboratory).*

- d. During the summer semester after completion of the P1 and P2 years, students are expected to work in the research setting of their major advisor a minimum of 40 hours per week for 10 weeks.
 - e. *Note – These time commitments represent minimums, and students are encouraged to work in the laboratory as much as possible to reduce the total time required to complete the dual degree program.*
6. Teaching Requirements - See Ph.D. Section IV D
 7. Publication Requirement - See Ph.D. Section IV E.
 8. Comprehensive Examination Candidacy - See Ph.D. Section IV F
 9. Dissertation Requirements - See Ph.D. Section IV G
 10. Dissertation Defense - See Ph.D. Section IV H

F. General Information

1. Outside Work for Dual-Degree Students
 - a. PharmD/PhD students in the Pharmaceutical Sciences Graduate Program are discouraged from working for pay outside of their responsibilities as a student. Outside employment, either within or outside the University, may affect performance of course work, will decrease the time the student is able to devote to their research, and can extend the time required to complete the degree requirements.
 - b. Students will be required to disclose their outside work schedule, and the type of work they have engaged in during each semester, at the time of their scheduled progress assessments.
 - c. A student who is not making adequate progress will be required to restrict or eliminate outside employment, or risk possible dismissal from the program.
2. Dual degree students will receive the PharmD degree following the P4 professional year assuming all degree requirements have been fulfilled. Students will matriculate to the Graduate School upon receipt of the PharmD degree.
3. Major Advisor – Ideally, by the end of the summer, but at the latest by the end of the fall semester of the P1 year, students will identify and begin work with a major advisor. The student will meet their major adviser before each semester to develop their course schedule.
4. Progress Assessment
 - a. Students must maintain a minimum GPA of 3.0 throughout the entire program. If a student's GPA falls below 3.0 for two consecutive semesters, is below 3.0 at the completion of the PharmD portion of the curriculum, or if a student receives a grade of D or F in any course, the student will be ineligible to continue in the Program.

However, students will be eligible to complete the PharmD program if their academic standing meets the minimum requirements of the College of Pharmacy.

- b. Each student must have a formal meeting with their research advisor each semester. A current grade summary will be provided by the student to the advisor prior to the meeting. The purposes of the meeting are to ensure that:
 - i. Grades in course work are satisfactory.
 - ii. Course requirements and other requirements are being met.
 - iii. Expertise in the conduct of research is being developed.
 - iv. Participation in other activities required of graduate students, such as seminar and journal club, is satisfactory.
 - v. Any extra-service work or other activities are not interfering with progress in the program.
- c. The PharmD/PhD Student Semester Assessment Form (PSCI-11) will be completed by the major advisor. A copy will be retained by the Graduate Program Coordinator.
- d. If progress is judged unsatisfactory, students will receive a written notice of deficiencies. A second written notice may be issued if deficiencies persist and will result in the student being placed on academic probation. Failure to improve to the satisfaction of both the major advisor and the Graduate Program Committee (if formed) after the second such notice will result in dismissal from the program.

G. Financial Support

1. Each student admitted to the program receives a summer stipend for up to \$4,000. The summer stipend covers the 10 week research experience for the summers prior to the P1 and P2 fall semesters.
2. For the additional 10 week summer research experiences after completion of the P2 year, a similar summer stipend (up to \$4,000 for 10 weeks) will only be paid if the corresponding funds are provided by the student's Major Advisor.
3. Students accepted and enrolled in the PharmD/PhD program are eligible to apply for a waiver of professional PharmD fees, which is granted on a competitive basis to students who have demonstrated academic excellence in their coursework and research in the pursuance of their degrees.
4. PharmD/PhD students are strongly encouraged to apply for other scholarships and grant opportunities that are specifically designed for PharmD/PhD students, i.e. from the National Institutes of Health, the American Foundation for Pharmaceutical Education, and others. Please contact the Graduate Program Coordinator for details.

APPENDIX A - FORMS

Form PSCI-1 - GRADUATE PROGRAM OF STUDY

**IDAHO STATE UNIVERSITY -- GRADUATE SCHOOL
COLLEGE OF PHARMACY
DEPARTMENT OF PHARMACEUTICAL SCIENCES**

FOR: <input type="checkbox"/> Doctor of Philosophy	Degree in: Click here to enter text.
<input type="checkbox"/> Master of Science	Degree in: Click here to enter text.
Graduate Catalog Date Used for Criteria: Click here to enter text.	

Planned Program: Click here to enter text.	Final Program: Click here to enter text.
Date Submitted: Click here to enter text.	Date Submitted: Click here to enter text.

Student Name: Click here to enter text. **Student No.:** Click here to enter text.

Mailing Address: Click here to enter text.

Date of Admission to Graduate School: Click here to enter a date.

GPA Last two years under graduate: Click here to enter text.

Approved Program. Include Thesis or Paper, Elective (Additional or Selective, if any)

Dept./No.	Title	Credits	Dept./No.	Title	Credits
-----------	-------	---------	-----------	-------	---------

_____	_____
Student	Date
_____	_____
Advisor	Date
_____	_____
Department Chair	Date
_____	_____
College Dean	Date
_____	_____
Graduate Dean	Date

Committee Members

Graduate Faculty Representative

Form PSCI-2 – GRADUATE RESEARCH PROPOSAL

Date: Click here to enter a date.

Graduate Student: Click here to enter text.

Degree Program: M.S. Ph.D.

Tentative Title of Proposed Research: Click here to enter text.

Estimated date of completion: Click here to enter a date.

Estimated total cost: Click here to enter text.

Proposed funding source(s): Click here to enter text.

Summary (complete proposal and literature review attached):

Click here to enter text.

Major Advisor:

_____	_____	_____
Typed/printed name	Signature	Date

Advisory Committee:

_____	_____	_____
Typed/printed name	Signature	Date

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Form PSCI-3 - ANNUAL GRADUATE STUDENT PROGRESS REPORT

Date: Click here to enter a date.

Graduate Student: Click here to enter text.

Degree Program: M.S. Ph.D.

Date of Initial Enrollment: Click here to enter a date.

Completed Forms in Student's Departmental File: Click here to enter text.

Graduate School forms (copies): Click here to enter text.

Previous Forms (dates): Click here to enter text.

Other Dept. forms: Click here to enter text.

Forms (requirements) yet to be completed (met): Click here to enter text.

Courses on Plan of Study (Form PSCI-1) yet to be completed: Click here to enter text.

Summary of thesis/dissertation research progress to date (student's full progress report attached):

Click here to enter text.

Progress Evaluation: Satisfactory Unsatisfactory

Recommendations: Click here to enter text.

Major Advisor:

_____	_____	_____
Typed/printed name	Signature	Date

Advisory Committee:

_____	_____	_____
Typed/printed name	Signature	Date

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Form PSCI-4 - GRADUATE STUDENT RESIDENCY AT IDAHO STATE UNIVERSITY

Date: Click here to enter a date.

Graduate Student: Click here to enter text.

Degree Program: M.S. Ph.D.

Date of Initial Enrollment: Click here to enter a date.

Date Residency Began: Click here to enter a date.

Date Residency Requirement Completed: Click here to enter a date.

Total Months of Residency: Click here to enter text.

Major Advisor:

Typed/printed name

Signature

Date

Form PSCI-5 - GRADUATE STUDENT TEACHING EXPERIENCE

Date: Click here to enter a date.

Graduate Student: Click here to enter text.

Course Taught/Assisted	Semester/Year	Specific TA Responsibilities

Performance evaluation: Satisfactory Unsatisfactory

Comments: Click here to enter text.

Recommendation: Click here to enter text.

Supervising Instructor:

Typed/printed name

Signature

Date

Form PSCI-6 - GRADUATE STUDENT RESEARCH PUBLICATION

Date: Click here to enter a date.

Graduate student/senior author: Click here to enter text.

Title of manuscript: Click here to enter text.

Other author(s): Click here to enter text.

Journal: Click here to enter text.

Date submitted: Click here to enter a date.

Abstract:

Click here to enter text.

Major Advisor:

Typed/printed name

Signature

Date

Form PSCI-7 – COMPREHENSIVE EXAMINATION FOR ADVANCEMENT TO PH.D. CANDIDACY

Graduate Student: Click here to enter text.

Ph.D. Degree Program Emphasis: Click here to enter text.

Date of initial enrollment: Click here to enter a date.

Written Examination Date: Click here to enter a date.

Examination Outcome: Satisfactory Unsatisfactory

Recommendations: Click here to enter text.

Oral Defense Date: Click here to enter a date.

Defense Outcome: Satisfactory Unsatisfactory

Recommendations: Click here to enter text.

Major Advisor:

_____	_____	_____
Typed/printed name	Signature	Date

Advisory Committee:

_____	_____	_____
Typed/printed name	Signature	Date

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Form PSCI-8 - THESIS/DISSERTATION REVIEW

Date: Click here to enter a date.

Graduate Student: Click here to enter text.

Thesis/dissertation title: Click here to enter text.

Anticipated graduation date: Click here to enter a date.

Last possible defense date: Click here to enter a date.

The accompanying draft of the above thesis/dissertation meets my approval and is submitted for your review. Please return the manuscript and this form with your recommendations by the following date:

Major Advisor:

Typed/printed name Signature Date

Reviewer's evaluation:

- Additional research is needed.
- Manuscript: needing major revision.
- Manuscript: needing minor revision.
- Manuscript: acceptable in present form.
- Manuscript: excellent in present form.

I wish to review the manuscript again after revision. Yes No

Reviewer's comments (see also attached comments and comments on manuscript):

Click here to enter text.

Reviewer:

Typed/printed name Signature Date

Form PSCI-9 – GRADUATE STUDENT EXIT INTERVIEW**DEPARTMENT OF BIOMEDICAL AND PHARMACEUTICAL SCIENCES**
GRADUATE STUDENT EXIT INTERVIEW QUESTIONNAIRE**A. General Information**

1. **Name of Student:** Click here to enter text.
2. **Name of Research Adviser:** Click here to enter text.
3. **Major Area of Study:** Choose an item.
4. **Anticipated Date of Graduation:** Click here to enter a date.
5. **Degree Expected:** Choose an item.
6. **How many years have you been in the graduate program?** Click here to enter text.
7. **How many peer-reviewed papers have you published?** Click here to enter text.
8. **How many professional meetings have you attended?** Click here to enter text.
9. **How many presentations did you make at meetings?** Click here to enter text.

B. Program Evaluation

Please indicate your level of satisfaction with the following :	Strongly Agree	Agree	No Opinion	Disagree	Strongly Disagree
The academic standards of the program were excellent.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I am satisfied with my research and professional training.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I am well prepared as an independent scholar/researcher.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The facilities and equipment needs for my research were met.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I am satisfied with the supervision I received from my research advisor.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
My teaching and supervisory experiences were adequate.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The didactic course load of the program was adequate.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

C. Job Placement

Have you secured a position? YES (If selected, please indicate) Choose an item. NO

D. Contact Information

Please provide an address, email, and phone number where you can be reached after you leave ISU. Click here to enter text.

E. Comments (You may include additional pages if needed)

Click here to enter text.

Form PSCI-10 – Application for Admission to the PharmD/PhD Dual-Degree Program

A. GENERAL INFORMATION

1. **Name of Applicant:** Click here to enter text.

2. **Student ID Number:** Click here to enter text.

3. **Permanent Home Address:** Click here to enter text.

4. **Local Address (Meridian or Pocatello):** Click here to enter text.

5. **Telephone:** Click here to enter text.

5. **E-mail:** Click here to enter text.

6. **PharmD Admission Date:** Click here to enter a date.

6. **PharmD Entry Date:** Click here to enter a date.

7. **Undergraduate Degree(s):** Click here to enter text.

B. Graduate Program Interest

1. **Primary Graduate Program Interest:** Choose an item.

2. **Secondary Graduate Program Interest:** Choose an item.

3. **Uncertain, but will meet with appropriate person in each area to discuss.**

Applicant:

Typed/printed name

Signature

Date

Form PSCI-11 – PharmD/PhD Dual Degree Student Semester Assessment Form

Complete at the end of the Fall and Spring Semesters

Student: Click here to enter text.

Major Advisor/Grad. Program Coordinator: Click here to enter text.

Semester: Choose an item.

Date: Click here to enter a date.

PAST SEMESTER

(A response of no to A. or B. requires an attached explanation and recommended plan of action).

A. Have the Course Objectives Agreed to Last Semester Been Met?

B. Have the Research Objectives Agreed to Last Semester Been Met?

CURRENT SEMESTER

C. Courses to be completed during this semester.

D. Specific research objectives for this semester.

STUDENT COMMENTS ABOUT THE PROGRAM

I agree that appropriate progress has / has not been made during the past semester.

Student Signature/Date

Advisor Signature/Date

Chair Signature/Date