

WASHINGTON STATE UNIVERSITY
COLLEGE OF PHARMACY AND PHARMACEUTICAL SCIENCES
DOCTOR OF PHARMACY RESEARCH HONORS PROGRAM

MISSION

The Doctor of Pharmacy Research Honors Program provides research opportunities in the College of Pharmacy and Pharmaceutical Sciences to students enrolled in the professional Doctor of Pharmacy program. This program is designated as a separate degree option in the WSU catalog; completion confers the "PharmD with Research Honors." Students who excel academically and are motivated to pursue additional educational opportunities are encouraged to apply. Qualified students will work with faculty research mentors to develop research projects and explore areas of interest that complement and enhance their experiences in the Doctor of Pharmacy program.

Students in the first year of the PharmD program are eligible to apply to the Research Honors Program. Admission of students early in the program will enable students to develop strong relationships with faculty research mentors and complete well-designed research projects. Students who successfully complete research projects and the requirements as set forth by the Honors Program Committee will graduate with honors distinction.

- Students admitted to the Doctor of Pharmacy Research Honors Program will:
 - Learn about basic, clinical, outcomes research, or other scholarly activities related to health sciences
 - Develop critical thinking and problem-solving skills to formulate and test hypotheses, discuss disease interventions, or improve patient care
 - Work one-on-one with an accomplished faculty mentor
 - Interact with other research faculty members and personnel, graduate students, and other Honors students
 - Attend seminars including those presented by outside guest speakers and research experts
 - Develop communication skills through oral and/or poster presentations of research work
 - Build a strong curriculum vitae to be more competitive in the job market or as an applicant to residency programs/graduate school
 - Work with faculty members who can provide letters of recommendation in support of career advancement
 - Expand career opportunities
 - Build lifelong professional relationships
 - Students who are interested in the joint PharmD/PhD program can receive valuable research experience for the PhD program
 - The accomplishment will be clearly noted on the student's transcript.

ADMISSION

Eligibility

- Doctor of Pharmacy students interested in pursuing research opportunities offered by the Research Honors Program must be in the first year of the professional program and be in good academic standing.. Good academic standing is defined as having successfully passed all courses

and not being placed on academic or professionalism probation or decertification from the Doctor of Pharmacy Program (including sanctions related to academic performance and/or professionalism). These situations will be reviewed on a case-by-case basis. Final determinations will be made by the Honors Program Committee.

Step 1: Preparation (Fall PY1)

Students interested in the Research Honors Program need to identify a mentor so that they can enroll in 499 (Special Problems) or 599 (Special Projects) for the Spring PY1 semester. The purpose of this experience is to determine whether the student is able to commit adequate time to research and whether the assigned mentor is a suitable match for the student. Course enrollment can be in Pharmacy 499 (for mentors in Pharmacotherapy) or PharDSci 499 (for mentors in Pharmaceutical Sciences). Students can register for 1-4 credits in a 499 course or 5 credits in a 599, based on discussions with their designated mentor and the time commitment involved. Students will need to contact their Academic and Student Success Advisor to register for the 499/599 course.

To identify a mentor, it is suggested that students review the research interests of the faculty (<https://pharmacy.wsu.edu/research/faculty-experts-index/>) and then arrange to meet with individual faculty members to discuss mutual interests and the feasibility of conducting a research honors project with the mentor. This will be done at the student's initiative. However, the Chair of the Honors Program Committee is available for advice during the process. The mentor must approve enrollment of the student in 499/599 courses.

Step 2: Participation in 499/599 project

Students will work with the faculty mentor during the Spring PY1 semester. The time commitment is variable but is based upon the number of credits enrolled for the 499/599 course. It must be sufficient for the student to gain adequate experience and the mentor to evaluate their research potential by the middle of the Spring PY1 semester. Upon request to the Chair of the Honors Program Committee and with written support from both the chair and the current faculty mentor, students can change mentors during or between semesters, subject to academic regulations.

Step 3: Application

Students will complete an application to the Research Honors Program per details provided by the Research Honors Program during the Spring PY1 semester. Completed applications must be submitted to the Honors Program Committee staff lead Abby Parsons, abby.parsons@wsu.edu; the deadline will be announced annually.

The application will consist of the following components:

1. Current curriculum vitae or resume
2. A cover letter (1-2 pages) that addresses:
 - a. Why the student is interested in pursuing research, including future career goals
 - b. What topic/research question the student is interested in studying
 - c. The proposed faculty mentor and why this is a good match
 - d. Research-related experience the student has had, including with the proposed mentor
 - e. Personal background (including extracurricular activities, community service, leadership activities, and work and volunteer experiences).
3. Letter of support from the proposed mentor
 - a. This letter will be submitted directly from the mentor to abby.parsons@wsu.edu

Acceptance

- Admission to the Research Honors Program is competitive. It depends on the number of research opportunities available each year and the number of qualified applicants. Application to the program does not guarantee acceptance into the program. Applicants will be notified by the Chair of the Honors Program Committee regarding the results of their application. If accepted, the degree program will be changed to the PharmD with Research Honors. Students admitted into the program are required to complete and submit a signed Research Honors Program student and mentor agreement upon acceptance into the program.

PROGRESS AND RETENTION

Academic Standing

- Students admitted into the Doctor of Pharmacy Research Honors Program must maintain good academic standing while participating in the Research Honors Program. Good academic standing is defined as having successfully passed all courses (required and elective courses) with no decisions placing a student on probation or decertification from the Doctor of Pharmacy Program (including sanctions related to academic performance and/or professionalism).

Research Project

- Students admitted into the Doctor of Pharmacy Research Honors Program must complete an Honors research project. Each research project must be developed through discussions with the faculty research mentor. Students are expected to meet frequently with their assigned mentor and submit an annual progress report at the end of PY2 and PY3 year (see below). Research projects must be completed during Spring PY3 before advancing to the PY4 advanced pharmacy practice experiences. A certification of completion of the Research Honors Program requirements must be submitted in the PY4 year and signed by the research mentor prior to graduation.

Enrollment in Graduate Level Course

- Students are required to enroll in PharmSci 577 (Responsible Conduct in Biomedical Research; 3 credits) in Fall PY2. PharmSci 577 credits can be used to fulfill elective credit requirements for the PharmD curriculum.

Enrollment in Honors Research Credits

- Students are required to complete at least 8 credits of PharDSci 598 (Honors Research) in PY2 and PY3. They must register for PharDSci 598 each semester of PY2 and PY3 for 1-4 credits per semester. Their faculty mentor will be assigned as Instructor-of-Record for these credits. PharDSci 598 may not be used to fulfill elective credit requirements for the PharmD curriculum.
- Students will still need to complete sufficient elective credits to fulfill requirements for their PharmD degree, in consultation with their Academic and Student Success Advisor.

Presentation of Research in PY2 Year

- Students admitted into the Doctor of Pharmacy Research Honors Program must give a poster and/or podium presentation that includes the project's background, rationale, and process/design in the summer between the PY2 and PY3 year during the College of Pharmacy and Pharmaceutical Sciences (CPPS) Research Day. The primary purpose of the presentation is for the

student to gain presentation experience and obtain helpful feedback regarding the project. Presentation at the CPPS Research Day is a requirement of the Research Honors Program.

Presentation of Research in PY3 Year

- Students will submit a draft manuscript describing the results of their project in Spring PY3 (date TBA). It is not required that the manuscript be submitted for publication. However, the draft must be in a style and format consistent with a journal in the field (journal-title must be provided with the draft). Members of the Honors Program Committee will review the draft manuscript, and feedback will be provided. Students will submit the final edited version of their manuscript in their PY4 year by the stated deadline. The Honors Program Committee will then determine whether the work merits graduation with the honors distinction.

Progress Reports

- Students enrolled in the Research Honors Program are required to submit annual progress reports in the Spring of PY2, PY3, and PY4. Both the student and the mentor will contribute to the report. The purpose is to ensure that students have made satisfactory progress (PY2 & PY3) and have fulfilled the program's requirements (PY4). The PY4 report will include a "completion form", to be signed by the mentor, indicating that the student has completed the program.

Consequences for Failure to Meet Requirements as Established by the Honors Committee.

- Once admitted, students who fail to meet any of the requirements of the Research Honors Program, as described above, may be dismissed from the program or placed on probation until the requirements can be met. These students will consult with their Academic and Student Success Advisor concerning enrollment in the regular PharmD degree option. Students dismissed from the Research Honors Program can appeal the decision in writing to the Honors Program Committee through the Committee Chair.

GRADUATION

- Students wishing to graduate with honors distinction from the Research Honors Program must:
 - Complete PharmSci 577 and at least 8 credits of PharDSci 598.
 - Be in good academic standing (successfully passed all courses [required and elective courses] with no decisions placing a student on probation or decertification from the Doctor of Pharmacy Program [including sanctions related to academic performance and/or professionalism])
 - Give a poster and/or podium presentation at the CPPS Research Day during the summer between the PY2 and PY3 year
 - Present a draft manuscript on their research to the Honors Committee in Spring PY3
 - Submit a final manuscript to the Honors Committee by the stated deadline in PY4
 - Submit a signed "completion form" by of the stated deadline in PY4.
- Students who successfully complete all requirements described above will graduate with the distinction of PharmD with Research Honors, to be recognized during the commencement ceremony.