PHARMACEUTICAL SCIENCES (PHRS)

PHRS 500. Innovations and Transformations in Pharmaceutical Sciences. 4 Credits.
Students will learn about and develop skills in topics related to the drug development pipeline (from discover, delivery, clinical pharmacology, and outcomes), pharmacy practice, and professional development. Programming consists of classroom sessions, guest speakers, panels, simulations, and site visits to hospitals, community pharmacies, and different pharmaceutical industries. Classroom sessions will be led by graduate students, post-doctoral fellows, and faculty. The classroom experience will be active learning to immerse students in scientific discourse. Must be a learner participating in the UNC Eshelman School of Pharmacy ITPS Program.
Grading status: Letter grade.

PHRS 801. Foundations for Cross-Disciplinary Training in the Pharmaceutical Sciences. 1-3 Credits.
This is a required course for first year pharmaceutical sciences graduate students. Students participate on cross-discipline teams to discuss topics in three foundational areas essential to their development as pharmaceutical scientists: research ethics which meets RCR training requirements; leading research articles within five areas of pharmaceutical sciences; and professional development.
Grading status: Letter grade.

PHRS 802. Drug Development and Professional Skills Development. 1 Credit.
Students will learn about and develop skills in topics related to pharmaceutical development and professional development. The Common Core is an interdisciplinary environment with students from each of the four Divisional PhD programs.
Requisites: Prerequisite, First year graduate student in Pharmaceutical Sciences or instructor permission required.
Grading status: Letter grade.

PHRS 815. Foundations in Implementation Science: Examples in Precision Health and Society. 1.5 Credit.
The goals of implementation science and precision health are to figure out ways to get the right care to the right patients at the right time. Implementation science is defined as ‘the study of methods to promote the translation of evidence-based practices, interventions, and policies related to precision health into practice settings to improve patient and population health.’ This course will cover the fundamentals of implementation science using examples in precision health.
Requisites: Prerequisites, PHCY 504 or equivalent course on experimental design.
Grading status: Letter grade.

PHRS 890. Special Topics in Pharmaceutical Sciences. 1-3 Credits.
Topic determined by instructor and announced in advance.
Repeat rules: May be repeated for credit.
Grading status: Letter grade.

PHRS 899. Seminar in Pharmaceutical Sciences. 1 Credit.
This course is required for all Pharmaceutical Sciences graduate students. Other students must obtain permission from the divisional course director. Class format consists of seminar presentations by students and/or faculty or invited speakers. Students are expected to actively engage in seminar activities and discussions.
Repeat rules: May be repeated for credit.
Grading status: Letter grade.

PHRS 990. Practicum in Pharmaceutical Sciences. 1-9 Credits.
Enrollment in this variable credit course requires a signed agreement between the Chair of the student’s academic division and a representative of the institutional sponsor providing the research practicum. Teaching/learning methods consist of a pharmaceutical sciences-based research training experience at the participating institution involving independent work and written and oral reports.
Repeat rules: May be repeated for credit.
Grading status: Letter grade.

PHRS 991. Research in Pharmaceutical Sciences. 1-9 Credits.
This is a variable credit course required for all Pharmaceutical Sciences graduate students by their second semester. Teaching/learning methods consist of a pharmaceutical sciences-based mentored research training experience involving independent work and research reports that must be filed at the end of the semester.
Repeat rules: May be repeated for credit.
Grading status: Letter grade.

PHRS 992. Master's (Non-Thesis). 3 Credits.
Students register for thesis substitute credits after successfully passing their comprehensive written examinations. A minimum of 3 credit hours of thesis substitute research and writing is required for Pharmaceutical Sciences graduate students.
Requisites: Prerequisite, PHRS 991 or equivalent.
Repeat rules: May be repeated for credit.

PHRS 993. Master's Research and Thesis. 3 Credits.
Students register for thesis credits after successfully passing their comprehensive written examination. A minimum of 3 credit hours of thesis research and writing is required for Pharmaceutical Sciences graduate students.
Requisites: Prerequisite, PHRS 991 or equivalent.
Repeat rules: May be repeated for credit.

PHRS 994. Doctoral Research and Dissertation. 3 Credits.
Students register for dissertation credits after successfully passing their qualifying preliminary and oral examinations. A minimum of 6 credit hours of dissertation research and writing is required for Pharmaceutical Sciences graduate students.
Requisites: Prerequisite, PHRS 991 or equivalent.
Repeat rules: May be repeated for credit.