<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Credits</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>PSC 4115</td>
<td>Pharmaceutics I</td>
<td>3</td>
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<td>Enrollment limited to students in the Doctor of Pharmacy program.</td>
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<tr>
<td>PSC 4125</td>
<td>Introduction to Pharmaceutical Sciences: Medicinal Chemistry / Pharmacology / Immunology</td>
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<td>Enrollment limited to students in the Pharmacy and Health Sciences.</td>
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<tr>
<td>PSC 5115</td>
<td>Pharmaceutics II</td>
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<tr>
<td>PSC 5225</td>
<td>Autonomic Pharmacology</td>
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<td>PSC 4125</td>
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<tr>
<td>PSC 5300</td>
<td>Drugs of Abuse</td>
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<td>Enrollment limited to students in the Pharmacy and Health Sciences.</td>
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<tr>
<td>PSC 5870</td>
<td>Seminar in Pharmacology</td>
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<td>Enrollment limited to students in the Pharmacy and Health Sciences.</td>
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<tr>
<td>PSC 5990</td>
<td>Directed Study in Pharmaceutical Sciences</td>
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<td>Enrollment limited to students in the Doctor of Pharmacy program.</td>
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<tr>
<td>PSC 5991</td>
<td>Directed Study in Pharmaceutics</td>
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<td>Enrollment limited to students in the Doctor of Pharmacy program.</td>
</tr>
<tr>
<td>PSC 5992</td>
<td>Directed Study in Pharmacology</td>
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<td>Enrollment limited to students in the Doctor of Pharmacy program.</td>
</tr>
<tr>
<td>PSC 6285</td>
<td>Pharmacy Seminar</td>
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<td>Enrollment limited to students in the Doctor of Pharmacy program.</td>
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<tr>
<td>PSC 6620</td>
<td>Veterinary Pharmacology</td>
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<td>Enrollment limited to students in the Doctor of Pharmacy program.</td>
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<tr>
<td>PSC 6800</td>
<td>Introduction to Research</td>
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<td>Enrollment limited to students in the Doctor of Pharmacy program.</td>
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<tr>
<td>PSC 6890</td>
<td>Toxicology for Pharmacists</td>
<td>2</td>
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<td>Enrollment limited to students in the Doctor of Pharmacy program.</td>
</tr>
<tr>
<td>PSC 6910</td>
<td>Pharmaceutical Waste: Environmental Impact and Management</td>
<td>2-3</td>
<td></td>
<td>Enrollment limited to students in the Doctor of Pharmacy program.</td>
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<tr>
<td>PSC 7010</td>
<td>Advanced Drug Action and Safety I</td>
<td>3</td>
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<td>Enrollment limited to students in the Pharmacy and Health Sciences.</td>
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<td>PSC 7020</td>
<td>Advanced Drug Discovery I</td>
<td>3</td>
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<td>Enrollment limited to students in the Pharmacy and Health Sciences.</td>
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<tr>
<td>PSC 7040</td>
<td>Advanced Drug Formulation and Delivery I</td>
<td>3</td>
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<td>Enrollment limited to students in the Pharmacy and Health Sciences.</td>
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</table>
PSC 7160 Advanced Practice Basic Pharmaceutical Sciences Elective Cr. 3-6
Eight-week rotation in basic science-oriented research laboratory. Offered Intermittently.
Restriction(s): Enrollment is limited to Graduate or Professional level students; enrollment limited to students in the Pharmacy and Health Sciences.
Repeatable for 6 Credits

PSC 7600 Drugs of Abuse: Advanced Cr. 2
Pharmacology and toxicology, both clinical and animal, associated with recreationally-used agents; treatment of acute and chronic problems associated with these agents; concept of chronic drug administration and abuse as disease state. Offered Yearly.
Restriction(s): Enrollment is limited to Graduate or Professional level students; enrollment limited to students in the Pharmacy and Health Sciences.

PSC 7700 Advanced Drug Action and Safety II Cr. 2
Continuing survey of modern research topics in pharmacology. Offered Every Other Winter.
Restriction(s): Enrollment is limited to Graduate or Professional level students; enrollment limited to students in the Pharmacy and Health Sciences.

PSC 7777 Chemistry Biology Interface Seminar Series Cr. 1
The Chemistry Biology Interface (CBI) seminar series will expose students to CBI-related research, CBI-related professional development activities, review of current literature, topics in rigor and reproducibility, and networking social activities. These activities will be in the format of presentations, panel discussions, workshops, small group discussions, or social activities. The goal is for graduate students from discipline-specific fields to move across a multi-disciplinary landscape, or for students already working in inter-disciplinary fields, such as chemical biology, to gain new expertise in specific disciplines. Beyond scholarly goals, the seminar series will enrich the graduate experience by providing career guidance, non-laboratory skill development, training in rigor and reproducibility, and professional networking. Offered Fall, Winter.
Restriction(s): Enrollment is limited to Graduate level students.
Equivalent: BIO 7777, CHM 7777

PSC 7800 Research Techniques in Medicinal Chemistry Cr. 1-4
Laboratory work employing modern techniques available in medicinal chemistry; application of basic principles to graduate study and research. Offered Every Term.
Restriction(s): Enrollment is limited to Graduate or Professional level students; enrollment limited to students in the Pharmacy and Health Sciences.
Repeatable for 16 Credits

PSC 7810 Research Techniques in Pharmaceutics Cr. 1-4
Laboratory work employing modern techniques available in pharmaceutics: application of basic principles to graduate study and research. Offered Every Term.
Restriction(s): Enrollment is limited to Graduate or Professional level students; enrollment limited to students in the Pharmacy and Health Sciences.
Repeatable for 16 Credits

PSC 7820 Research Techniques in Pharmacology Cr. 1-4
Laboratory work employing some of the modern techniques available in pharmacology, including the application of basic principles to graduate study and research. Offered Every Term.
Restriction(s): Enrollment is limited to Graduate or Professional level students; enrollment limited to students in the Pharmacy and Health Sciences.
Repeatable for 16 Credits

PSC 7850 Pharmaceutical Sciences Colloquium Cr. 1
This course is a required seminar course for all graduate students in the Department of Pharmaceutical Sciences. Offered Every Term.
Restriction(s): Enrollment is limited to Graduate or Professional level students; enrollment limited to students in the Pharmacy and Health Sciences.
Repeatable for 10 Credits

PSC 7860 Introduction to Seminar Cr. 1
A required seminar course for all first year graduate students in the Department of Pharmaceutical Sciences. Students will be required to present a seminar on their research progress during their first year in the program. Offered Every Term.
Restriction(s): Enrollment is limited to Graduate or Professional level students; enrollment limited to students in the Pharmacy and Health Sciences.

PSC 7870 Second Year Seminar Cr. 1
A required seminar course for all second year PhD students in the Department of Pharmaceutical Sciences. Students will be required to present a seminar on a topic unrelated to their research. Offered Fall, Winter.
Prerequisites: PSC 7860 with a minimum grade of C
Restriction(s): Enrollment is limited to Graduate level students.

PSC 7880 Third Year Seminar Cr. 1
A required seminar course for all third year PhD students in the Department of Pharmaceutical Sciences. Students will be required to present a seminar on their research. Offered Fall, Winter.
Prerequisites: PSC 7870 with a minimum grade of C

PSC 7999 Master's Essay Direction Cr. 1-4
Offered Every Term.
Restriction(s): Enrollment limited to students with a class of Candidate Masters; enrollment is limited to Graduate or Professional level students; enrollment limited to students in the Pharmacy and Health Sciences.
Repeatable for 4 Credits

PSC 8650 Special Topics in Medicinal Chemistry Cr. 2
Recent developments in medicinal chemistry. Topics under investigation and of current interest offered in different semesters. Offered Every Term.
Restriction(s): Enrollment is limited to Graduate or Professional level students; enrollment limited to students in the Pharmacy and Health Sciences.
Repeatable for 16 Credits

PSC 8660 Special Topics in Pharmaceutics Cr. 2
Recent developments in pharmaceutics. Topics under investigation and of current interest offered in different semesters. Offered Every Term.
Restriction(s): Enrollment is limited to Graduate or Professional level students; enrollment limited to students in the Pharmacy and Health Sciences.
Repeatable for 16 Credits

PSC 8670 Special Topics in Pharmacology Cr. 2
Recent developments in pharmacology. Topics under investigation and of current interest offered in different semesters. Offered Every Term.
Restriction(s): Enrollment is limited to Graduate or Professional level students; enrollment limited to students in the Pharmacy and Health Sciences.
Repeatable for 16 Credits
The Chemistry Biology Interface course will teach students how to apply chemical approaches to study complete biological processes. It will commence with a basic overview of the biochemistry of biomolecules. Next, complex biological processes related to various diseases will be highlighted by introducing cell biology, model cells and organisms, and disease mechanisms. Finally, the course will highlight contemporary examples of how chemical methods are used to answer complex biological questions to show the value and innovation available by taking a multidisciplinary approach. The focus will be on development of skill sets that are applicable for research at the chemistry biology interface, rigor and transparency in data collection and analysis, and identification of cross-disciplinary research at Wayne State. Offered Winter.

**Restriction(s):** Enrollment is limited to Graduate level students.

**Equivalent:** BIO 8888, CHM 8888, PHC 8888, PSL 8888

**PSC 8999 Master's Thesis Research and Direction Cr. 1-8**
Offered Every Term.

**Restriction(s):** Enrollment limited to students with a class of Candidate Masters; enrollment is limited to Graduate or Professional level students; enrollment limited to students in the Pharmacy and Health Sciences.

**Repeatable for 8 Credits**

**PSC 9990 Pre-Doctoral Candidacy Research Cr. 1-8**
Research in preparation for doctoral dissertation. Offered Every Term.

**Restriction(s):** Enrollment is limited to Graduate or Professional level students; enrollment limited to students in the Pharmacy and Health Sciences.

**Repeatable for 12 Credits**

**PSC 9991 Doctoral Candidate Status I: Dissertation Research and Direction Cr. 7.5**
Offered Every Term.

**Restriction(s):** Enrollment is limited to Graduate or Professional level students; enrollment limited to students in the Pharmacy and Health Sciences.

**PSC 9992 Doctoral Candidate Status II: Dissertation Research and Direction Cr. 7.5**
Offered Every Term.

**Restriction(s):** Enrollment is limited to Graduate or Professional level students; enrollment limited to students in the Pharmacy and Health Sciences.

**PSC 9993 Doctoral Candidate Status III: Dissertation Research and Direction Cr. 7.5**
Offered Every Term.

**Restriction(s):** Enrollment is limited to Graduate or Professional level students; enrollment limited to students in the Pharmacy and Health Sciences.

**PSC 9994 Doctoral Candidate Status IV: Dissertation Research and Direction Cr. 7.5**
Offered Every Term.

**Restriction(s):** Enrollment is limited to Graduate or Professional level students; enrollment limited to students in the Pharmacy and Health Sciences.

**PSC 9995 Candidate Maintenance Status: Doctoral Dissertation Research and Direction Cr. 0**
Offered Every Term.

**Restriction(s):** Enrollment is limited to Graduate or Professional level students; enrollment limited to students in the Pharmacy and Health Sciences.

**Course Material Fees:** $416.08

**Repeatable for 0 Credits**