Request for Approval of a Course to Satisfy the PharmD Undergraduate or Graduate Professional Elective Requirement

Requestor Information
Name:
Class:
Major:
Date of Request:

Information on Course Requested for Inclusion as PharmD Undergraduate or Graduate Professional Elective

☐ Undergraduate elective  ☐ Graduate elective

Course Subject Code:
Course Number:
Course Name:
Course Institution and Department:
Year Taken (if taken prior to approval)

Course Catalog Description (provide attachment or copy)

Course Syllabus (provide attachment)

Your rationale for how this course relates to pharmacy
• If the course topic/course is on the approved list of electives but was taken at another university then the student must submit the course syllabus to the appropriate department for consideration of equivalency. If it is considered equivalent then it will be processed by the registrar’s office, as an equivalent course and the course will not need to be reviewed by the curriculum committee. The office of student affairs and Jose Trevino can assist the student in this process and use of the www.transfer.org website for equivalent courses between Ohio universities. The student must have earned a C or better to receive credit for the course. A transcript must be submitted to the registrar’s office.
• If the course approval request is for a course not taught at the University of Toledo, then it will be reviewed by the curriculum committee. The student must provide this form, their transcript and course syllabus for the course to be considered by the committee. The student must have earned a grade of C or better before elective credit will be recorded.
• Email the completed forms and the required documentations to Dr. Diane Cappelletty diane.cappelletty@utoledo.edu; or drop the completed forms and the required documentations to Dr. Cappelletty’s secretary in HEB 141C.
Guidelines for Courses Considered as Appropriate for Undergraduate Professional Electives

The curriculum committee requires 2 months for processing of course requests once all necessary materials have been received for review by the committee (this includes course descriptions and syllabi). Students desiring credit for courses previously taken or desiring to take courses not on the preapproved list should take this processing time into consideration. It is strongly suggested that students submit requests for courses in January of P1 in order to receive determinations by April so that they can register for courses in Fall semester P2 if needed. Students are encouraged to request determinations for each course for which they could receive credit at the same time so that such requests can be processed in parallel. Students are responsible for clearly identifying which courses in a transcript should be considered for elective credit and for providing accurate course descriptions and complete syllabi. Additional materials may be required by the committee to support a request such as information on textbooks used, if any, and more complete description of material studied.

Criteria for approval of a course as an Undergraduate Professional Elective include that the majority of the material in the course not be part of the pharmacy core curriculum, that the course foster learning of subject material beneficial to the practice of pharmacy, and that the student receive a grade of C or better in the course. Electives are expected to enhance or expand a student’s healthcare knowledge and skills beyond that of the required PharmD curriculum. While some math and business courses, which enhance student abilities to analyze data or conduct administrative functions, skills advantageous to pharmacists, are acceptable, in general, electives are expected to be applicable to healthcare.

Credit for courses taken outside The University of Toledo can be counted towards professional elective credit requirements if a grade of C or better is earned. Such grades will not be factored into College of Pharmacy or University of Toledo GPA calculations. Proof of grades is required.

If courses are taken as quarter and not semester hours, the hours must be converted into semester hours by multiplying by 2/3. Fractions of hours for such calculations will be rounded down. Hence, five but not four quarter hours will satisfy the 3 semester credit hour requirement.

For seminar courses not in the College of Pharmacy and Pharmaceutical Sciences (CPPS), a topic, instructor, and how many credit hours for which the course would be taken (if course has variable credit hours) have to be presented to the CPPS Curriculum Committee in order for any approval to be considered. In addition, some justification as to why a seminar course external to the UT CPPS PharmD program would be taken instead of PHPR 4910 Pharmacy Practice Problems [1-5 hours] or PHPR 4900 Honors Seminar in Pharmacy Practice [1-3 hours] is required.

Basic research coursework can be used to satisfy professional elective credit. Approval for such research not conducted under pre-approved course numbers must be obtained from the CPPS Curriculum Committee.
Pharm.D. Undergraduate Professional Electives
The following is a list of recommended undergraduate professional electives. A total of 3 credit hours of undergraduate professional electives is required. Other electives may be chosen with the written approval of the College of Pharmacy Curriculum Committee. To count towards professional elective requirements, a grade of C or better must be earned in a course. Credit for courses taken outside The University of Toledo can be counted towards professional elective credit requirements if a grade of C or better is earned, but grades will not be factored into College of Pharmacy or University of Toledo GPA calculations.

College of Pharmacy
Research with individual faculty (must be arranged before registering)

MBC 4380 Medicinal Plants ..........................................................3
MBC 4710 Targeted Drug Design* .............................................. 3
MBC 4910 Problems in Biomedical Chemistry ......................... 1-3
MBC 4900 Honors Seminar Med & Biol Chem, ....................... 1-3
PHCL 4630 Cancer Chemotherapy ........................................... 3
PHCL 4730 Toxicology I .............................................................. 3
PHCL 4750 Toxicology II ............................................................ 3
PHCL 4900 Honors Seminar in Pharmacology ......................... 1-3
PHCL 4910 Problems in Pharmacology..................................... 1-3
PHCL 4960 Honors Thesis in Pharmacology ......................... 2-5
PHPR 3730 Chemical Dependency & The Pharmacist .......... 3
PHPR 4590 Readings Access & Cultural Competence .......... 2
PHPR 4900 Honors Seminar in Pharmacy Practice ............... 1-3
PHPR 4910 Pharmacy Practice Problems .............................. 1-5
PHPR 4960 Honors Thesis in Pharmacy Practice ................. 2-5

*MBC 4710 is only for students seeking double B.S.P.S. major.
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### Other Courses at the University of Toledo

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BUAD 2040</td>
<td>Financial Accounting Information</td>
<td>3</td>
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<tr>
<td>BUAD 2050</td>
<td>Accounting Business Decision Making</td>
<td>3</td>
</tr>
<tr>
<td>BUAD 3010</td>
<td>Principles of Marketing</td>
<td>3</td>
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<tr>
<td>BUAD 3030</td>
<td>Manage. &amp; Behave. Processing Orgs.</td>
<td>3</td>
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<tr>
<td>BUAD 3040</td>
<td>Principles of Financial Management</td>
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<td>BUAD 3470</td>
<td>Legal &amp; Ethical Environment of Business</td>
<td>3</td>
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<tr>
<td>BIOL 3010</td>
<td>Molecular Genetics</td>
<td>3</td>
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<tr>
<td>BIOL 3210</td>
<td>Human Nutrition</td>
<td>3</td>
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<tr>
<td>BIOL 4110</td>
<td>Human Genetics</td>
<td>3</td>
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<tr>
<td>BIOL 4210</td>
<td>Molecular Basis of Disease</td>
<td>3</td>
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<td>COUN 3140</td>
<td>Substance Abuse Prevention and Community Programming</td>
<td>3</td>
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<tr>
<td>HCAR 4510</td>
<td>Medical and Legal Aspects of Healthcare</td>
<td>3</td>
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<tr>
<td>HEAL 2800</td>
<td>Principles of Nutrition</td>
<td>3</td>
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<td>HEAL 3000</td>
<td>Global Health</td>
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<td>HEAL 3300</td>
<td>Drug Awareness</td>
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<tr>
<td>HEAL 3600</td>
<td>Prevention and Control of Disease</td>
<td>3</td>
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<td>HEAL 4100</td>
<td>Health Behavior</td>
<td>3</td>
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<td>HEAL 4400</td>
<td>Health Problems of Youth</td>
<td>3</td>
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<tr>
<td>HEAL 4560</td>
<td>Health Problems of Aging</td>
<td>3</td>
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<tr>
<td>HEAL 4700</td>
<td>Nutritional Science</td>
<td>3</td>
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<tr>
<td>HEAL 4750</td>
<td>Obesity and Eating Disorders</td>
<td>3</td>
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<td>MATH 2600</td>
<td>Introduction to Statistics</td>
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<tr>
<td>PHIL 3310</td>
<td>Science and Society</td>
<td>3</td>
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<tr>
<td>PHIL 3370</td>
<td>Medical Ethics</td>
<td>3</td>
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<tr>
<td>PSC 4330</td>
<td>Health Care Policy</td>
<td>3</td>
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The Following Courses have been Reviewed By the Committee and Been Determined **Not to Satisfy** PharmD Undergraduate Professional Elective Requirements

- ANTH 3330 Food, Health and Society
- BIOL 4980 Intro to Neurobiology
- HEAL 2500 Personal Health
- PHCL 2220 Drugs, Medicine, and Society
### PharmD Graduate Professional Electives

The following is a list of recommended graduate professional electives. A total of 5 credit hours of graduate professional electives is required. Other electives may be chosen with the written approval of the College of Pharmacy Curriculum Committee. A graduate course which significantly overlaps in content with a course used to fulfill the undergraduate professional elective requirement will not count towards fulfilling the graduate professional elective requirement. Credit for courses taken outside The University of Toledo can be counted towards professional elective credit requirements if a grade of C or better is earned, but grades will not be factored into College of Pharmacy or University of Toledo GPA calculations.

**MBC**
- MBC 5100/7100 Research Practices in Medicinal Chemistry .... 1
- MBC 5380 Medicinal & Poisonous Plants ..................... 3
- MBC 5620/7620 Biochemical Techniques ..................... 2
- MBC 6100/8100 Advanced Immunology ....................... 2
- MBC 6190/8190 Advanced Medicinal Chemistry ............... 4
- MBC 6200/8200 Biomedical Chemistry ....................... 4
- MBC 6420 Protein Chemistry/CHEM 6510/8510 .......... 2 or 4
- MBC 6430/8430 Nucleic Acid Chem/CHEM 6530/8530 .... 2 or 4
- MBC 6440/ 8440 Enzymology/CHEM 6520/8520 .......... 2 or 4
- MBC 6750/ Bioorganic Chemistry: Chemical 8750 Approaches to Enzymes ........................... 3
- MBC 6800/ Methods in Biotechnology ...................... 3

**PHCL**
- PHCL 5630 Cancer Chemotherapy ................................ 3
- PHCL 5730 Toxicology I ........................................ 3
- PHCL 5750 Toxicology II ....................................... 3
- PHCL 5760 Toxicokinetics ..................................... 3
- PHCL 5990 Problems in Pharmacology....................... 1 to 6
- PHCL 6600 Seminar in Pharmacology .......................... 1
- PHCL 6770 Toxicological Risk Assessment ................... 3

**PHPR - Administration**
- PHPR 590 Readings Access & Cultural Competence ....... 2
- PHPR 5810 Finance & Personal Planning for Pharmacists . 1
- PHPR 5990 Problems in Pharmacy Practice ............... 1 to 6
- PHPR 6530 Research Methods in Pharmacy Practice .... 3
- PHPR 6600 Seminar in Administrative Pharmacy ........... 1
- PHPR 6670 Chemical Dependency & The Pharmacist ...... 3
- PHPR 6810 Hospital Pharmacy Administration ............... 3
- PHPR 6820 Selected Topics in Hospital Pharmacy ........ 3
- PHPR 6830 Advanced Community Pharmacy Administration .......................... 3
- PHPR 6840 Selected Topics in Community Pharmacy ...... 3
- PHPR 6980 Special Topics ..................................... 1 to 5

**PHPR - Industrial**
- PHPR 5680 Parenteral Manufacturing ....................... 2
- PHPR 5690 Dosage Form Design .............................. 3
- PHPR 5710 Selected Topics in Pharmaceutical Techniques ................................ 2 to 3
- PHPR 5720 Pharmaceutical Rate Processes .................... 3
PHPR 5990 Problems in Pharmacy Practice .................. 1 to 6
PHPR 6950 Seminar in Industrial Pharmacy .................. 1
PHPR 6980 Special Topics ........................................ 1 to 5

**PHPR - Clinical**

PHPR 6980 Special Topics ........................................ 1 to 5
PHPR 8540 Geriatric Monitoring Principles .................. 3

**Additional Recommendations**

COMM 6260 Business Communication and Technology ...... 3
COUN 6240 Diagnosis and Mental Health ..................... 4
COUN 6470/8470 Drugs and Mental Health Counseling ...... 4
EDP 5210 Child Behavior and Development .................. 3
EDP 5230 Adult Development ..................................... 3
HEAL 5750 Obesity and Eating Disorders ..................... 3
HEAL 6530/8530 Drug Use and Misuse ......................... 3
MGMT 5110 Introduction to Management ....................... 3
NURS 528 Theories of Addictive Behavior .................... 3
PSC 5330 Healthcare Policy ...................................... 3
PSY 6600 Behavioral Neuroscience ............................ 3
PUBH 633 Public Health and Aging ............................ 3
SOC 5160 Health and Gender .................................... 3

**The University of Florida, College of Pharmacy**

PHA 539 Legal and Org Environ of Medicines Use .......... 3
PHA 6935 Selected Topics in Pharmacy:
Pharmaceutical Crimes Practice & Procedure ........... 3
PHA 6935 Selected Topics in Pharmacy:
Veterinary Pharmacy ............................................ 2