September 12, 2013

Marjorie Neidecker, PhD MEng RN
Adjunct Assistant Professor
Department of Pharmacology
The Ohio State University College of Medicine

MS Pharmacology– Curriculum Change

Margie,

The Graduate School Curriculum Committee (GSCC) met on September 11 and among its agenda items discussed the proposed curriculum changes to the MS pharmacology program. The proposal requests the creation of a second curricular track (Option 2) for students which will replace the two Clinical Trials courses (Pharm 8259, 8260; totaling 14 credit hours) with four courses (Epidem 6412, 7412, Pharm 7600, 7699; totaling 16 credit hours). Eight hours of these two curricula, the practicum experience, are renamed (Pharm 7699) but remain unchanged. Students who pursue Option 2 will have expanded exposure to the College of Public Health, which was viewed as beneficial to their education.

The GSCC requested one clarification:

- The fate of Option 1 in the proposed curriculum was unclear. The GSCC was unsure if the intention is to replace Option 1 with Option 2 or to offer both options to the ongoing curriculum.

With this clarification, I will send the proposal to the Graduate Council for their review. Once approved, it will subsequently be submitted to the Council on Academic Affairs for their review.

Please don’t hesitate to contact me with questions or clarifications.

Many thanks,

Scott Herness
Associate Dean
The Graduate School
Dear Scott,

Last month I spoke to you about our plan to revise the MS Pharmacology curriculum due to faculty changes in the past year that have left us without a couple of key instructors in the department. I have attached the proposed curriculum plan and sample course of study. We plan to replace the following two courses with other existing and new courses:

- Pharmacology 8250 - Design of Clinical Trials I (Autumn, 7 credits [3 didactic, 4 "lab"]: Students learn pertinent aspects of the Code of Federal Regulations related to the conduct of clinical trials. They learn the basics of conducting clinical research and they gain hands-on experience in a 39-bed clinical research facility.
- Pharmacology 8260 - Design of Clinical Trials II (Spring, 7 credits [3 didactic, 4 "lab"]: same course description.

Although the two courses we are replacing total 14 credits, only 6 credits will effectively be replaced. The portion considered the "lab," which is more appropriately called a practicum, will continue to be included in the curriculum but will now be offered in a stand alone course. The following course has been added to cover the 8 credits of practical experience:

- Pharmacology 7699 - Clinical Pharmacology Practicum (Au, Sp, Su, 1-8 credits; min. 8 credits will be required for the MS): Placement in an organization conducting clinical research drug studies for supervised practice experience.

The 6 credits of classroom instruction in the above courses will be replaced with the following courses, totaling 8 credits:

- PH Epidemiology 7412 - Principles and Procedures for Human Clinical Trials (Spring 3 credits): Principles and procedures for clinical professionals in the design, conduct and analysis of human clinical trials.

We have carefully reviewed the syllabi for the old/new courses and feel confident that the original course objectives will continue to be met and that the program goals will be satisfied. I have obtained an email of support (attached) for our students to enroll in the PH Epi courses from the College of Public Health Sr. Associate Dean, Michael Bisesi, as well as the Clinical and Translational Science program coordinator, Dr. Philip Binkley.
Please let me know if this alternate curriculum plan will be acceptable.

Warm regards,
Margie

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neidecker.1@osu.edu osu.edu
Master of Science in Pharmacology
with training in
Clinical Pharmacology and Clinical Trial Design

- Designed for recent graduates and professionals interested in a career in clinical pharmacology, specializing in clinical trial studies.
- Prepares students for a career as a principal investigator or research scientist in the pharmaceutical industry, clinical research organizations, or academic medical centers.
- Provides intensive hands-on experience in phase I clinical trials units.
- Appropriate for pharmacists, medical doctors, nurse practitioners, other healthcare practitioners, and applicants holding a master’s degree or PhD in the pharmaceutical sciences or other bioscience field.

Program of Study:
The MS Pharmacology curriculum consists of a minimum of 30 credits organized into three curricular domains:
1. Courses in the design and conduct of clinical trials (11 credits)
2. Courses required for the specialization in clinical pharmacology (11 credits minimum)
3. Practicum (8 credits minimum)

Coursework Requirements: *(Changes to curriculum in red text)*

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Pharmacology 5600 <em>(for students without graduate-level pharmacology coursework)</em></td>
<td>Introduction to General Pharmacology</td>
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<td>Public Health: Biostatistics 6210</td>
<td>Design and Analysis of Studies in Health Sciences I</td>
<td>3</td>
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<tr>
<td>Public Health: Biostatistics 6211</td>
<td>Design and Analysis of Studies in Health Sciences II</td>
<td>3</td>
</tr>
<tr>
<td>Pharmacy 7310</td>
<td>Clinical Pharmacokinetics I</td>
<td>3</td>
</tr>
<tr>
<td>Pharmacy 7320</td>
<td>Clinical Pharmacokinetics II</td>
<td>3</td>
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<tr>
<td>Pharmacy 6220</td>
<td>Drug Delivery II</td>
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<td>OR</td>
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<tr>
<td>Pharmacology 7250</td>
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Option 1:
- Pharmacology 8250
- Pharmacology 8260

Option 2:
- PH Epidemiology 6412
- PH Epidemiology 7412
- Pharmacology 7600
- Pharmacology 7699

- Clinical Trials I | 7 |
- Clinical Trials II | 7 |
- Basic Principles in Clinical and Translational Science | 2 |
- Principles and Procedures for Human Clinical Trials | 3 |
- Principles of Clinical Pharmacology | 3 |
- Clinical Pharmacology Practicum | 8 |
### Sample Plan of Study:

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<thead>
<tr>
<th>Course</th>
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<td>Basic Principles in Clinical and Translational Science</td>
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<td>Clinical Pharmacokinetics I</td>
<td>MW 10:30-11:20 &amp; Fr 2:30-4:20</td>
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</table>
FW: permission to enroll future students in CTS classes

Droesch, Kynthia [kdroesch@cph.osu.edu]

Sent: Tuesday, April 30, 2013 1:15 PM
To: Neidecker, Marjorie

Hi Margie,

I heard back from our Sr. Associate Dean as well as the CTS program coordinator, Dr. Philip Binkley, and are happy to support your programs through the CTS courses.

Thank you and please let me know if there are any additional questions or you need other information.

Kynthia

Kynthia Droesch
Director, Office of Academic Programs & Student Services
College of Public Health, The Ohio State University
100E Cunz Hall, 1841 Neil Ave. Columbus, Ohio 43210-1351
Follow us on Twitter: @100CunzHall

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From: Droesch, Kynthia
Sent: Wednesday, April 03, 2013 4:38 PM
To: 'Neidecker, Marjorie'
Cc: Bisesi, Michael (mbisesi@cph.osu.edu)
Subject: RE: permission to enroll future students in CTS classes

Hi Margie,

I have sent your email to Dr. Bisesi, our Senior Associate Dean. He will consult with Dr. Binkley and follow up with you.

Thank you,
Kynthia

Kynthia Droesch
Director, Office of Academic Programs & Student Services
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Celebrate National Public Health Week!!!
April 1 – 7 2013
http://www.nphw.org/ #nphw

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From: Neidecker, Marjorie [mailto:Marjorie.Neidecker@osumc.edu]
Sent: Friday, March 22, 2013 10:00 AM
To: Droesch, Kynthia  
Subject: permission to enroll future students in CTS classes

Hello Kynthia,

I'm working with Drs. Wolfgang Sadee and Joe Kitzmiller in the College of Medicine, department of pharmacology, to restructure our MS Pharmacology curriculum. The program specializes in clinical pharmacology and clinical trials, and is a requirement in our clinical pharmacology fellowship program. Beginning next year, we plan to limit our applicants to students with a clinical doctorate (MD/DO, PharmD, DDS, etc.) or MS/PhD in a bioscience field who are interested in acting as a principal investigator or research scientist in the pharmaceutical industry, clinical research organizations, or academic medical centers. (Other applicants will be directed to a new master's program in clinical research management and regulation, which is designed for those interested in becoming professionals who support the principal investigator on clinical trials.) The MS program requires 30-34 credit hours and is generally completed in 2-3 semesters. We've typically had 1-3 students enrolled each year.

Due to recent changes in faculty and course offerings in our department, we would like to explore having our students take 2 or 3 of your MPH-CTS courses, similar to the MS Nursing Science students. Do you think this would be possible? Or do you know to whom I should direct my questions?

Thanks very much,
Margie Neidecker

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