

# NEW COURSE FORM

## 1. General Information.

- a. Submitted by the College of: Pharmacy Today's Date: 1/12/2012
- b. Department/Division: PPS
- c. Contact person name: Frank Romanelli Email: froma2@uky.edu Phone: 257-4778
- d. Requested Effective Date:  Semester following approval OR  Specific Term/Year<sup>1</sup>: \_\_\_\_\_

## 2. Designation and Description of Proposed Course.

- a. Prefix and Number: PPS 979
- b. Full Title: Toxicology in Clinical Practice
- c. Transcript Title (if full title is more than 40 characters): Toxicology in Clinical Practice
- d. To be Cross-Listed<sup>2</sup> with (Prefix and Number): \_\_\_\_\_

e. Courses must be described by at least one of the meeting patterns below. Include number of actual contact hours<sup>3</sup> for each meeting pattern type.

<input checked="" type="checkbox"/> 30 Lecture	_____ Laboratory <sup>1</sup>	_____ Recitation	_____ Discussion	_____ Indep. Study
_____ Clinical	_____ Colloquium	_____ Practicum	_____ Research	_____ Residency
_____ Seminar	_____ Studio	_____ Other – Please explain: _____		

- f. Identify a grading system:  Letter (A, B, C, etc.)  Pass/Fail
- g. Number of credits: 2
- h. Is this course repeatable for additional credit? YES  NO
- If YES: Maximum number of credit hours: \_\_\_\_\_
- If YES: Will this course allow multiple registrations during the same semester? YES  NO

i. Course Description for Bulletin: Potentially any substance can be considered a poison if enough of it is ingested, and patients who ingest chemicals, drugs and dietary supplements are commonly seen in clinical practice. This elective course will help develop the pharmacy student's knowledge of the toxic effects of chemicals and drugs when humans are exposed to these agents in acute/toxic overdoses. In addition, the course will emphasize how to prevent exposures, and drug therapy associated with each type of ingestion. This elective is highly recommended for students interested in critical care and/or emergency medicine as clinical toxicology consultations are an element of practice in these areas.

- j. Prerequisites, if any: co-requisite- PY3 core courses
- k. Will this course also be offered through Distance Learning? YES<sup>4</sup>  NO

<sup>1</sup> Courses are typically made effective for the semester following approval. No course will be made effective until all approvals are received.

<sup>2</sup> The chair of the cross-listing department must sign off on the Signature Routing Log.

<sup>3</sup> In general, undergraduate courses are developed on the principle that one semester hour of credit represents one hour of classroom meeting per week for a semester, exclusive of any laboratory meeting. Laboratory meeting, generally, represents at least two hours per week for a semester for one credit hour. (from SR 5.2.1)

<sup>4</sup> You must *also* submit the Distance Learning Form in order for the proposed course to be considered for DL delivery.

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1. Supplementary teaching component, if any:  Community-Based Experience  Service Learning  Both
3. Will this course be taught off campus? YES  NO
4. Frequency of Course Offering.
- a. Course will be offered (check all that apply):  Fall  Spring  Summer
- b. Will the course be offered every year? YES  NO   
If NO, explain: \_\_\_\_\_
5. Are facilities and personnel necessary for the proposed new course available? YES  NO   
If NO, explain: \_\_\_\_\_
6. What enrollment (per section per semester) may reasonably be expected? 10-15
7. Anticipated Student Demand.
- a. Will this course serve students primarily within the degree program? YES  NO
- b. Will it be of interest to a significant number of students outside the degree pgm? YES  NO   
If YES, explain: \_\_\_\_\_
8. Check the category most applicable to this course:
- Traditional – Offered in Corresponding Departments at Universities Elsewhere
- Relatively New – Now Being Widely Established
- Not Yet Found in Many (or Any) Other Universities
9. Course Relationship to Program(s).
- a. Is this course part of a proposed new program? YES  NO   
If YES, name the proposed new program: \_\_\_\_\_
- b. Will this course be a new requirement<sup>5</sup> for ANY program? YES  NO   
If YES<sup>5</sup>, list affected programs: \_\_\_\_\_
10. Information to be Placed on Syllabus.
- a. Is the course 400G or 500? YES  NO   
If YES, the *differentiation for undergraduate and graduate students must be included* in the information required in **10.b**. You must include: (i) identification of additional assignments by the graduate students; and/or (ii) establishment of different grading criteria in the course for graduate students. (See SR 3.1.4.)
- b.  The syllabus, including course description, student learning outcomes, and grading policies (and 400G-/500-level grading differentiation if applicable, from **10.a** above) are attached.

<sup>5</sup> In order to change a program, a program change form must also be submitted.

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## Signature Routing Log

**General Information:**




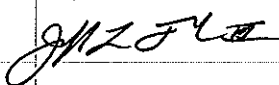
Course Prefix and Number: PPS 979

Proposal Contact Person Name: Peggy Piascik      Phone: 257-1766      Email: piascik@uky.edu

**INSTRUCTIONS:**

Identify the groups or individuals reviewing the proposal; note the date of approval; offer a contact person for each entry; and obtain signature of person authorized to report approval.

**Internal College Approvals and Course Cross-listing Approvals:**

Reviewing Group	Date Approved	Contact Person (name/phone/email)	Signature
PPS PEAC	8/30/10	Peggy Piascik / 7-1766 / piascik@uky.edu	
PPS Department	9/14/10	Emery Wilson (Acting Chair) / /	
College of Pharmacy Curriculum Committee	9/27/10	Penni Black / 3-3898 / Penni.Black@uky.edu	
College of Pharmacy Faculty	1/5/11	Joseph Fink / 218-6515 / jfink@uky.edu	
		/ /	

**External-to-College Approvals:**

Council	Date Approved	Signature	Approval of Revision <sup>6</sup>
Undergraduate Council			
Graduate Council			
Health Care Colleges Council			
Senate Council Approval		University Senate Approval	

**Comments:**

Course will be taught by Stephanie Baker, PharmD.

<sup>6</sup> Councils use this space to indicate approval of revisions made subsequent to that council's approval, if deemed necessary by the revising council.

# PPS 979

## Toxicology in Clinical Practice

### Course Coordinator

Stephanie Baker, Pharm.D.  
UK Hospital, H109A  
859-323-5916  
[stephbaker@email.uky.edu](mailto:stephbaker@email.uky.edu)

### Meeting Time

Tuesday from 3-5 PM, Location TBD

### Credits

2 credit hours

### Pre-requisites

Participants should be students in good standing in the third professional year of the College of Pharmacy curriculum.

### Course Description

Potentially any substance can be considered a poison if sufficient quantities of it are ingested, and patients who ingest dangerous amounts of chemicals, drugs and dietary supplements are commonly seen in clinical practice. This elective course will help develop the pharmacy student's knowledge of the toxic effects of chemicals and drugs when humans are exposed to these agents in acute/toxic overdoses. In addition, the course will emphasize how to prevent such exposures and the specific drug therapy associated with treating each type of ingestion. This elective is highly recommended for students interested in critical care and/or emergency medicine as clinical toxicology consultations are an element of practice in these areas.

### Course Goals

Upon completion of this course the students will:

- Recognize commercial and pharmaceutical sources of the toxic agents discussed
- Describe the biochemical and pathophysiological mechanisms for the pathogenesis of acute toxicity
- Correlate the signs and symptoms of acute overdose with their time of appearance
- List the physical signs and symptoms, as well as the laboratory tests, that should be monitored to determine the extent of the toxicologic emergency and the response to treatment
- Indicate the clinical factors (e.g. age, pre-existing disease, chronic or co-ingested medications, etc.) that could modify a patient's response to an acute/toxic ingestion
- Describe the first-aid measures that should be performed in response to an ingestion, inhalation, ocular or skin exposure of a toxic substance
- Describe the general management of a toxicologic emergency that would be performed at a healthcare facility
- List the indications, contraindications, dosage and method of administration of antidotes that would be used in the treatment of a toxicologic emergency

### Course Assignments

#### Assigned Reading

Students in the course will be expected to read all assigned articles provided by the instructors prior to attending class.

#### Patient Cases

Each week students will be asked to review a patient case corresponding to the week's topic and develop an initial treatment plan for that case prior to attending class. The initial treatment plan will be taken up at the beginning of each class to assess preparedness and participation. At the end of each week's meeting, the students will discuss the case and reflect on any changes they would make to their initial treatment plan based on information presented in class.

## Exams

There will be a total of three exams that will be administered in this course. The exams are not cumulative per se but prospective mastery of the material is expected. The exam format will be multiple choice and short answer.

## Grading

Assignment	% of grade	Due Date
<b>Patient Cases</b> See above description under course assignments for details.	20%	
<b>Exams</b> See above description under course assignments for details.	45%	
<b>Class participation/attendance</b> Each student will participate in class discussions on a weekly basis. In addition, each student will serve as the team leader at least once during the semester when reviewing the patient case for the week.	35%	

## Grading Scale

90-100 A                      80-89 B                      70-79 C                      60-69 D                      <60 F

## Schedule

Week	Topic	Instructor
1 (1/16-1/22)	Course orientation	Baker
2 (1/23-1/29)	General Principles of Treatment and Gastric Decontamination	Baker
3 (1/30-2/5)	Acetaminophen	Weant
4 (2/6-2/12)	Iron and Salicylates	Baker
5 (2/13-2/19)	Exam I	Baker
6 (2/20-2/26)	Caustics and Hydrocarbons	Baker
7 (2/27-3/5)	Opioids and Sedatives	Baker
8 (3/6-3/12)	Ethanol, Ethylene Glycol and Methanol	Weant
9 (3/13-3/19)	Cyclic Antidepressants and Antipsychotics	Baker
10 (3/20-3/26)	Exam II	Baker
11 (3/27-4/2)	Beta-Blockers and Calcium Channel Blockers	Weant
12 (4/3-4/9)	Digoxin	Baker
13 (4/10-4/16)	Cocaine and Stimulants	Baker
14 (4/17-4/23)	Carbon Monoxide, Cyanide, Nitrites and Methemoglobinemia	Weant
15 (4/24-4/30)	Bioterrorism and Mass Poisonings	Weant
16 (5/1-5/7)	Exam III	Baker

## Attendance

Students must be punctual for all class meetings as a courtesy to the lecturer. A student missing any required attendance day will need to contact Dr. Baker in advance to discuss alternative plans to fulfill the course specific objectives.

## On-line Course Evaluation Policy for Course Syllabi

Regular course and instructor evaluations are required by state, university, college and accreditation regulations. These evaluations are essential for improving student learning by providing feedback to faculty about their classroom presentations.

Based on your feedback, important decisions are made about courses and how they are taught. This process cannot work without your input.

**Note:** *Course evaluations are a part of the course requirements; therefore, if you do not complete an evaluation, you will receive an incomplete grade ("I") for the semester. When you complete the course evaluation, the incomplete grade will be changed to the grade earned in the course.*

*The College of Pharmacy administers these evaluations electronically through a web-based program. You will receive email notifications from the Office of Education about when to complete a course and/or an instructor evaluation(s) for this course. Since these evaluations are completed electronically and each survey will be posted only for a limited time, you should check your university email account regularly.*

*Please note that your individual responses are completely anonymous. However, the Office of Education can track who has or has not completed each evaluation and send reminder notices. Summary reports of aggregate data will be provided to the faculty after the semester is completed.*

### **Academic Honesty**

Ethical behavior is expected of all students in the course. Each student in the class is expected to adhere to the highest standards of academic honesty. Cheating, plagiarism, and destruction of course materials violate the rules of the University and the ethical standards of professional behavior. Violations of the University's rules regarding academic honesty can lead to a failing grade in the course and expulsion from the University. Instances of academic dishonesty will be reported to appropriate University officials as required by University rules and procedures. University of Kentucky Code of Student Rights and Responsibilities defines academic offenses and details procedures for dealing with them. The Code can be viewed electronically on the University's web site: <http://www.uky.edu/StudentAffairs/Code/part1.html>. All students are expected to be familiar with the content of the Code of Student Rights and Responsibilities.

### **ID Badges**

Students must wear their Medical Center ID badge to all class sessions in order to receive credit for that day's activities.

### **Procedures for Disability Accommodation**

Students requesting an accommodation because of a disability should notify Dr. Baker and the Student Affairs Office no later than the third day of the semester. The student should then check with Dr. Baker at least several days in advance of the assignment for arrangements to manage the accommodation.

The Student Affairs Office will 1) work with students and the University Disability Resource Center to document/verify the disability, 2) obtain guidelines for appropriate accommodation and 3) notify Dr. Baker of the appropriate accommodation.

Students who have requested and obtained accommodations in the previous semester in the College of Pharmacy need only notify the instructor by the third day of class and prior to the assignment to obtain the arrangements to manage the accommodation from the instructor. The Student Affairs Office will forward the guidelines from the University Disability Resource Center to the faculty member in charge of the course at the beginning of the semester."

### **Student Responsibility:**

1. Report disability need to each course director and to the Student Affairs office no later than third day of the semester.
2. Provide appropriate documentation to the Disability Resource Center.
3. Though verification of the disability will not be available until after Disability Resource Center gathers information (and/or performs testing), the student should notify faculty members that such information may be coming.
4. Work with faculty member or teaching assistant for each assignment to arrange appropriate accommodations.