



**SOUTH DAKOTA BOARD OF REGENTS  
ACADEMIC AFFAIRS FORMS**

**New Course Request**

<b>SDSU</b>	<b>Pharmacy &amp; Allied Health Professions/Pharmaceutical Sciences</b>
<b>Institution</b>	<b>Division/Department</b>
Dennis D. Hedge	2/7/2018
<b>Institutional Approval Signature</b>	<b>Date</b>

**Section 1. Course Title and Description**

Prefix & No.	Course Title	Credits
PHA 353	Pathophysiology, Pharmacology & Toxicology II	3

\*short title for use in Colleague: Pathophys, Pharmacol, Tox II

**Course Description**

Continuation of Pathophysiology, Pharmacology & Toxicology I. Pathophysiology of common and significant diseases, the pharmacology of medications used in treatment of those diseases, and basic principles of prevention and treatment of drug overdoses and other poisonings.

**Pre-requisites or Co-requisites**

Prefix & No.	Course Title	Pre-Req/Co-Req?
PHA 352	Pathophysiology, Pharmacology & Toxicology I	Pre-Req

**Registration Restrictions**

None

SDSU Catalog Note: P1 year standing.

**Section 2. Review of Course**

**2.1. Was the course first offered as an experimental course?**

Yes (if yes, provide the course information below)  No

**2.2. Will this be a unique or common course?**

**Unique Course**

Prefix & No.	Course Title	Credits
PHA 320/ NURS 323	Introduction to Pathophysiology	3
NURS 321	Pharmacology	3

*Provide explanation of differences between proposed course and existing system catalog courses below:*

Pathophysiology content is covered in PHA 320/NURS 323 Introduction to Pathophysiology. The proposed new course is an integrated course including pathophysiology, pharmacology, and toxicology. The integrated nature of the course distinguishes the proposed class from NURS 323. PHA 320 will be deleted due to the introduction of the integrated course. The intent of the integration is to allow greater depth of content coverage and improved student learning. There is a pharmacology course for nursing students (NURS 321) in the inventory. This course is focused on nursing applications related to drug administration, is only a one-semester three-credit course, and is not integrated. Therefore, it does not have the required breadth and depth of pharmacology content required for the Doctor of Pharmacy program. The proposed Pathophysiology, Pharmacology, and Toxicology course sequence is an overall four-semester course sequence with a fully integrated design that distinguishes it from NURS 321.



By integrating the content into one course series, students should be better able to make the connections between the content areas with the goal of improving understanding and retention. In addition, new student learning outcomes and expectations for pharmacy practice require a greater depth of knowledge in pathophysiology. Specifically, student pharmacists need to understand detailed mechanisms of disease processes to understand how the medications impact these mechanisms. Integration of the pathophysiology content with pharmacology and toxicology will allow for greater depth of coverage and help students make the connections between disease and drug mechanism of action.

2. Note whether this course is:       Required     Elective

3. In addition to the major/program in which this course is offered, what other majors/programs will be affected by this course?

Currently, pathophysiology is offered as a joint course between nursing and pharmacy. With this change, the pharmacy students will take the integrated pathophysiology, pharmacology, and toxicology course series instead of the stand-alone pathophysiology course.

4. If this will be a dual listed course, indicate how the distinction between the two levels will be made.

NA

5. Desired section size                      80

6. Provide qualifications of faculty who will teach this course. List name(s), rank(s), and degree(s).

Gudiseva Chandrasekher, PhD, Associate Professor of Pharmaceutical Sciences

Shafiqur Rahman, PhD, Professor of Pharmaceutical Sciences

Teresa Seefeldt, PharmD, PhD, Associate Professor of Pharmaceutical Sciences

7. Note whether adequate facilities are available and list any special equipment needed for the course.

Adequate classroom facilities are available to teach this course. No special equipment is needed.

8. Note whether adequate library and media support are available for the course.

Library and media support resources are adequate for this course. No special resources are needed.

9. Will the new course duplicate courses currently being offered on this campus?

Yes     No

10. If this course may be offered for variable credit, explain how the amount of credit at each offering is to be determined.

NA