

# SOUTH DAKOTA BOARD OF REGENTS ACADEMIC AFFAIRS FORMS

# New Course Request

Pharmacy & Allied Health Professions/Pharmaceutical	
Sciences	
Division/Department	
2/7/2018	
re Date	

Section 1. Con	urse Title and Description	
Prefix & No.	Course Title	Credits
PHA 352	Pathophysiology, Pharmacology & Toxicology I	3

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

#### **Course Description**

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 overdose and other poisonings.

## **Pre-requisites or Co-requisites**

Prefix & No.	Course Title	Pre-Req/Co-Req?
BIOL 325	Physiology	Pre-Req

#### **Registration Restrictions**

Pharmacy major

SDSU Catalog Note: P1 year standing.

# Section 2. Review of Course

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

 $\boxtimes$  Yes (if yes, provide the course information below)  $\Box$  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.

	cate universities that are proposi		
$\Box$ BHSU $\Box$ I	$\square$ NSU $\square$ SI	DSMT □ SDSU	$\Box$ USD
Section 3. Other Cour	rse Information		
	ional staffing impacts?		
⊠ No. Replacement of	PHA 320 Introduction to Pa	thophysiology, 3 cr	
	(course prefix, course numb		redits)
	Effective date of deletion:	8/15/2018	,
This course involves the in	tegration of content from multip	le separate courses.	The same faculty
	rrently separate courses will tea	-	
	(s) in which course will be offe	red: Pharmaceutical	Sciences (B.S.)/
Pharmacy (Pharm.D.)			
-	ional method by university: R		
	method by university: $001 - 1$	Face to face, Term ba	ased
8	be effective: Fall 2018	140	
-	at the course for additional cr	eait?	
$\Box$ Yes, total credit limit:		/6 •1\0	
0	s course be limited to S/U (pass	s/fail)?	
$\Box$ Yes $\boxtimes$ No			
<b>3.8.</b> Will section enrol			
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1. Provide specific reasons for the proposal of this course and explain how the changes enhance the curriculum.

The proposed course involves integration of content from four existing courses (PHA 320 Introduction to Pathophysiology, PHA 442 Pharmacology I, PHA 443 Pharmacology II, and PHA 444 Toxicology). The content from these courses is highly interrelated as understanding of the pathophysiology of disease is critical to understanding how drugs work to treat that disease and knowledge of pharmacology is critical to understanding the effects of poisonings and overdoses. 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:  $\square$  Required  $\square$  Elective

80

- 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
- 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.

- 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?

 $\Box$  Yes  $\boxtimes$  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