

B.S. DEGREE IN PHARMACEUTICAL SCIENCE
INDUSTRY TRACK

FRESHMAN YEAR					
FALL SEMESTER			SPRING SEMESTER		
NUMBER	COURSE NAME	CH	NUMBER	COURSE NAME	CH
ENG 101	WRITTEN COMMUNICATION I	3	ENG 102	WRITTEN COMMUNICATION II	3
MAT 117 ¹	PRECALCULUS MATHEMATICS I ¹	3	HEA 200 PED 205	HEALTH EDUCATION OR ANY 2 CH PHYSICAL EDUCATION COURSE	2
BIO 105	INTRODUCTION TO BIOLOGY I W/LAB	4	BIO 106	INTRODUCTION TO BIOLOGY II W/LAB	4
UNV 101	UNIVERSITY 101: THE INDIVIDUAL AND LIFE	1	MAT 130 ¹	CALCULUS ¹	3
CHE 201	GENERAL CHEMISTRY AND QUALITATIVE ANALYSIS I W/LAB	4	CHE 202	GENERAL CHEMISTRY AND QUALITATIVE ANALYSIS II W/LAB	4
	TOTAL	15		TOTAL	16
SOPHOMORE YEAR					
FALL SEMESTER			SPRING SEMESTER		
NUMBER	COURSE NAME	CH	NUMBER	COURSE NAME	CH
CHE 301	GENERAL ORGANIC CHEMISTRY I W/LAB	4	CHE 302	GENERAL ORGANIC CHEMISTRY II W/LAB	4
BIO 304	MICROBIOLOGY	4	HIS 106	WORLD CIVILIZATIONS II	3
PHY 201	INTRODUCTORY PHYSICS I	4	HUM 201	HUMANITIES I	3
PHY 215	INTRODUCTORY PHYSICS I LAB	1	SOC 205 ² PSY 203 ² PSY 308 ²	SOCIAL SCIENCE ELECTIVE ²	3
COM 103	ORAL COMMUNICATION	3	BIO 305	PRINCIPLES OF HEREDITY	3
	TOTAL	16		TOTAL	16
JUNIOR YEAR					
FALL SEMESTER			SPRING SEMESTER		
NUMBER	COURSE NAME	CH	NUMBER	COURSE NAME	CH
BIO 224	HUMAN ANATOMY & PHYSIOLOGY I W/LAB	4	BIO 225	HUMAN ANATOMY & PHYSIOLOGY II W/LAB	4
PHA 300	QUANTITATIVE LAB TECHNIQUES	2	BIO 544	MEDICAL MICROBIOLOGY	3
NUR 320	SCIENTIFIC WRITING FOR HEALTH PROFESSIONALS	3	PHA 312	DRUG DISCOVERY, DESIGN, AND DEVELOPMENT	3
MAT 205	INTRODUCTION TO STATISTICS	3	PHA 317	PHARMACEUTICAL ANALYSIS	3
			PHA 318	RESPONSIBLE CONDUCT OF RESEARCH	1
			PHA 416	BIOSTATISTICS AND RESEARCH METHODS	3
	TOTAL	12		TOTAL	17
SUMMER SEMESTER					
NUMBER	COURSE NAME	CH			
PHA 399	RESEARCH EXTERNSHIP	1			
	TOTAL	1			
SENIOR YEAR					
FALL SEMESTER			SPRING SEMESTER		
NUMBER	COURSE NAME	CH	NAME	COURSE NAME	CH
PHA 311	PHYSIOLOGIC BIOCHEMISTRY	3	PHA 314	MEDICINAL CHEMISTRY I	4
PHA 371	BIOPHARMACEUTICS I	3	PHA 310	MEDICAL IMMUNOLOGY	2
PHA 373	BIOPHARMACEUTICS I LAB	1	PHA 372	BIOPHARMACEUTICS II	3
PHA 433	GENERAL PHARMACOLOGY I	3	PHA 374	BIOPHARMACEUTICS II LAB	1
PHA 499	RESEARCH CAPSTONE	0	PHA 316	PRINCIPLES OF DRUG INFORMATION	3
FREE ELECTIVE	ELECTIVE **	2	PHA 434	GENERAL PHARMACOLOGY II	3
			PHA 499	RESEARCH CAPSTONE	0
	TOTAL	12		TOTAL	16
TOTAL CREDIT HOURS: INDUSTRY TRACK			120		

¹STUDENTS MAY ELECT TO TAKE CALCULUS I & II (MAT 151-152) INSTEAD OF PRECALCULUS MATHEMATICS I (MAT 117) AND MAT 130. NOTE THAT PRECALCULUS MATHEMATICS II (MAT 118), (MAT 117) IS THE PREREQUISITE TO CALCULUS I.

²STUDENTS MAY ELECT TO TAKE INTRODUCTION TO SOCIOLOGY (SOC 205), INTRODUCTIONS TO PSYCHOLOGY (PSY 203), OR PHYSIOLOGICAL PSYCHOLOGY (PSY 308). NOT THAT INTRODUCTION TO PSYCHOLOGY (PSY 203) IS THE PREREQUISITE TO PHYSIOLOGICAL PSYCHOLOGY.

** STUDENTS MAY ELECT TO TAKE ANY PHARMACY ELECTIVE OR TAKE INTRODUCTION TO COMPUTERS (CSC 120), PRINCIPLES OF MARKETING (MKT 305), OR SALES MANAGEMENT (MKT 328). NOTE THAT PRINCIPLES OF MARKETING (MKT 305) IS A PREREQUISITE TO SALES MANAGEMENT.

NOTE 1: ALL COURSE ENROLLMENTS FOR THE SENIOR YEAR REQUIRE ADMINISTRATIVE APPROVAL FROM THE SCHOOL OF PHARMACY