B.S. DEGREE IN PHARMACEUTICAL SCIENCE INDUSTRY TRACK



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	FR	ESHM	an year		
	FALL SEMESTER			SPRING SEMESTER	
Number	COURSE NAME	CH	Number	COURSE NAME	C
ENG 101	Written Communication I	3	ENG 102	Written Communication II	
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/BIO 105	4	BIO 106	Introduction to Biology II/BIO 106	4
UNV 101	University 101: The Individual and Life	1	MAT 130 ¹	CALCULUS ¹	3
CHE 201	General Chemistry and Qualitative Analysis I	4	CHE 202	General Chemistry and Qualitative Analysis II	4
	TOTAL:	15		TOTAL:	10
	SOI	РНОМ	ORE YEAR	•	
	FALL SEMESTER	IIOIVIV	TE TEME	SPRING SEMESTER	T
Number	COURSE NAME	СН	Number	COURSE NAME	Cl
CHE 301	GENERAL ORGANIC CHEMISTRY I	4	CHE 302	GENERAL ORGANIC CHEMISTRY II	4
BIO 304	MICROBIOLOGY	4	HIS 106	WORLD CIVILIZATIONS II	3
PHY 201	INTRODUCTORY PHYSICS I	4	HUM 201	HUMANITIES I	3
1111 201	INTRODUCTORI TITISICS I	4	SOC 205 ²	110MANTITES 1	L
PHY 215	Introductory Physics I Lab	1	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:	1
		UNIO	R YEAR		
	FALL SEMESTER			SPRING SEMESTER	Π
Number	COURSE NAME	СН	Number	COURSE NAME	C
BIO 224	Human Anatomy & Physiology I w/lab	4	BIO 225	Human Anatomy & Physiology II w/lab	4
PHA 3XX	Quantitative Lab Techniques	2	BIO 544	MEDICAL MICROBIOLOGY	(,)
NUR 320	Scientific Writing for Health Professionals	3	PHA 3XX	Drug Discovery, Design, and Development	
MAT 205	Introduction to Statistics	3	PHA 3XX	Pharmaceutical Analysis	3
1.411 200		_			
1.411 200			PHA 416	Biostatistics and Research Methods	۲.)
1.411 200			PHA 416 PHA 3XX	Responsible Conduct of Research	1
	TOTAL:	12			1
200	TOTAL:	12		Responsible Conduct of Research	1
	TOTAL: SUMMER SEMESTER			Responsible Conduct of Research	1
Number	TOTAL: SUMMER SEMESTER COURSE NAME	СН		Responsible Conduct of Research	Í
NUMBER PHA 4XX	TOTAL: SUMMER SEMESTER COURSE NAME RESEARCH EXTERNSHIP	CH		Responsible Conduct of Research	Í
Number	TOTAL: SUMMER SEMESTER COURSE NAME RESEARCH EXTERNSHIP TOTAL:	CH 1 1	PHA 3XX	Responsible Conduct of Research	
Number	TOTAL: SUMMER SEMESTER COURSE NAME RESEARCH EXTERNSHIP TOTAL:	CH 1 1		RESPONSIBLE CONDUCT OF RESEARCH TOTAL:	
NUMBER PHA 4XX	TOTAL: SUMMER SEMESTER COURSE NAME RESEARCH EXTERNSHIP TOTAL: FALL SEMESTER	CH 1 1 SENIOI	PHA 3XX	RESPONSIBLE CONDUCT OF RESEARCH TOTAL: SPRING SEMESTER	1
NUMBER PHA 4XX NUMBER	TOTAL: SUMMER SEMESTER COURSE NAME RESEARCH EXTERNSHIP TOTAL: FALL SEMESTER COURSE NAME	CH 1 1 SENIOL CH	PHA 3XX R YEAR NUMBER	RESPONSIBLE CONDUCT OF RESEARCH TOTAL: SPRING SEMESTER COURSE NAME	1 C
NUMBER PHA 4XX NUMBER PHA 311	TOTAL: SUMMER SEMESTER COURSE NAME RESEARCH EXTERNSHIP TOTAL: FALL SEMESTER COURSE NAME PHYSIOLOGIC BIOCHEMISTRY	CH 1 1 SENIOI CH 3	PHA 3XX R YEAR NUMBER PHA 314	RESPONSIBLE CONDUCT OF RESEARCH TOTAL: SPRING SEMESTER COURSE NAME MEDICINAL CHEMISTRY I	
Number Pha 4XX Number Pha 311 Pha 371	TOTAL: SUMMER SEMESTER COURSE NAME RESEARCH EXTERNSHIP TOTAL: FALL SEMESTER COURSE NAME PHYSIOLOGIC BIOCHEMISTRY BIOPHARMACEUTICS I	CH 1 1 1	R YEAR NUMBER PHA 314 PHA 310	RESPONSIBLE CONDUCT OF RESEARCH TOTAL: SPRING SEMESTER COURSE NAME MEDICINAL CHEMISTRY I MEDICAL IMMUNOLOGY	
NUMBER PHA 4XX NUMBER PHA 311 PHA 371 PHA 373	TOTAL: SUMMER SEMESTER COURSE NAME RESEARCH EXTERNSHIP TOTAL: FALL SEMESTER COURSE NAME PHYSIOLOGIC BIOCHEMISTRY BIOPHARMACEUTICS I BIOPHARMACEUTICS I LAB	CH 1 1 1 CH 3 3 1 1	R YEAR NUMBER PHA 314 PHA 310 PHA 372	RESPONSIBLE CONDUCT OF RESEARCH TOTAL: SPRING SEMESTER COURSE NAME MEDICINAL CHEMISTRY I MEDICAL IMMUNOLOGY BIOPHARMACEUTICS II	
NUMBER PHA 4XX NUMBER PHA 311 PHA 371 PHA 373 PHA 4XX	TOTAL: SUMMER SEMESTER COURSE NAME RESEARCH EXTERNSHIP TOTAL: FALL SEMESTER COURSE NAME PHYSIOLOGIC BIOCHEMISTRY BIOPHARMACEUTICS I BIOPHARMACEUTICS I LAB GENERAL PHARMACOLOGY I	CH 1 1 1 SENIOI CH 3 3 1 1 3	R YEAR NUMBER PHA 314 PHA 310 PHA 372 PHA 374	RESPONSIBLE CONDUCT OF RESEARCH TOTAL: SPRING SEMESTER COURSE NAME MEDICINAL CHEMISTRY I MEDICAL IMMUNOLOGY BIOPHARMACEUTICS II BIOPHARMACEUTICS II LAB	
NUMBER PHA 4XX NUMBER PHA 311 PHA 371 PHA 373 PHA 4XX PHA 4XX	TOTAL: SUMMER SEMESTER COURSE NAME RESEARCH EXTERNSHIP TOTAL: FALL SEMESTER COURSE NAME PHYSIOLOGIC BIOCHEMISTRY BIOPHARMACEUTICS I BIOPHARMACEUTICS I LAB GENERAL PHARMACOLOGY I RESEARCH CAPSTONE	CH 1 1 SENIOR CH 3 3 1 1 3 0	R YEAR NUMBER PHA 314 PHA 310 PHA 372 PHA 374 PHA 316	RESPONSIBLE CONDUCT OF RESEARCH TOTAL: SPRING SEMESTER COURSE NAME MEDICINAL CHEMISTRY I MEDICAL IMMUNOLOGY BIOPHARMACEUTICS II BIOPHARMACEUTICS II LAB PRINCIPLES OF DRUG INFORMATION	
NUMBER PHA 4XX NUMBER PHA 311 PHA 371 PHA 373 PHA 4XX	TOTAL: SUMMER SEMESTER COURSE NAME RESEARCH EXTERNSHIP TOTAL: FALL SEMESTER COURSE NAME PHYSIOLOGIC BIOCHEMISTRY BIOPHARMACEUTICS I BIOPHARMACEUTICS I LAB GENERAL PHARMACOLOGY I	CH 1 1 1 SENIOI CH 3 3 1 1 3	R YEAR NUMBER PHA 314 PHA 310 PHA 372 PHA 374	RESPONSIBLE CONDUCT OF RESEARCH TOTAL: SPRING SEMESTER COURSE NAME MEDICINAL CHEMISTRY I MEDICAL IMMUNOLOGY BIOPHARMACEUTICS II BIOPHARMACEUTICS II LAB	

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.

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PHA 4XX

Research Capstone

120

TOTAL:

Note 1: Courses denoted with an XXX are available; the course number will be updated by the Registrar's Office

Note 2: All course enrollments for the senior year require prior administrative approval from the School of Pharmacy

TOTAL:

TOTAL CREDIT HOURS: INDUSTRY TRACK

²Students may elect to take Introduction to Sociology (SOC 205), Introduction to Psychology (PSY 203), or Physiological Psychology (PSY 308). Note 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.