	BACHELOR of SCIENCE in PHYSICS (#754)
L	Department of Physics and Astronomy
1. TR	Ogden College of Science and Engineering
	Western Kentucky University
	The suggested program of study shown below should be used in consultation with
<b>WKU</b>	your advisor(s). Every student will finish with a unique plan of his/her own
	depending on the electives selected. Admission to the major is required to
	register for all 300 and 400 nursing classes. All upper-division nursing courses

must be taken in sequence to meet NURS course prerequisite requirements.

## SAMPLE – Finish in Four Plan

FIRST YEAR						
Fall Semester		Spring Semester				
PHYS 180 & 181 – Introductory Modern Physics & Lab	4	PHYS 255 & 256 – University Physics I & Lab	5			
MATH 136 – Calculus I	4	MATH 137 – Calculus II	4			
ENG 100 – Introduction to College Writing	3	CHEM 120/121 – College Chemistry & Lab	5			
COMM 145 – Fundamentals of Publics Speaking OR COMM 161 – Business/Professional Speaking	3	HIST 119 – Western Civilization to 1648 <b>OR</b> HIST 120 - Western Civilization Since 1648	3			
TOTAL CREDIT HOURS	14	TOTAL CREDIT HOURS	17			

SECOND YEAR					
Fall Semester		Spring Semester			
PHYS 265 & 266 – University Physics II & Lab	5	PHYS 321 – Introductory Modern Physics II	3		
MATH 237 – Multivariable Calculus	4	MATH 331- Differential Equations	3		
MATH 307 – Intro to Linear Algebra <b>OR</b> MATH 370 – Applied Techniques in Mathematics	3	PHYS 301 – Electrical Measurements Laboratory	1		
ENG 200 - Introduction to Literature	3	ENG 300 – Writing in the Discipline	3		
		General Education Course	3		
		General Education Course	3		
TOTAL CREDIT HOURS	15	TOTAL CREDIT HOURS	16		

THIRD YEAR					
Fall Semester		Spring Semester			
PHYS 350 – Classical Mechanics I	3	PHYS 480-Quantum Physics or Physics 441/404 - Optics & Lab	3/4		
PHYS 470/ 471 – Nuclear Physics & Lab or Physics 460/406 - Solid State Physics & Lab or Physics 425 - Physics of Materials Science	4/3	PHYS 318 – Data Acquisition Using Labview	3		
PHYS 302 – Atomic Physics Laboratory	1	PHYS 398 – Junior Seminar	.5		
MATH 435 – Partial Differential Equations	3	PHYS 450 – Classical Mechanics II or Physics 445 - Electromagnetism II	3		
General Education Course	3	General Education Course	3		
PHYS 330 - Thermodynamics	3	MATH 382 – Probability and Statistics I	3		
TOTAL CREDIT HOURS	17/16	TOTAL CREDIT HOURS	15.5/ 16.5		

FOURTH YEAR					
Fall Semester		Spring Semester			
General Education Course		PHYS 445 – Electromagnetism II or Physics 450 - Classical Mechanics II	4		
PHYS 470/ 471 – Nuclear Physics & Lab or Physics 460/406 - Solid State Physics & Lab or Physics 425 - Physics of Materials Science	4/3	MATH 450 – Complex Variables	3		
PHYS 440 - Electromagnetism		Physics 480 - Quantum Physics or Physics 441/404 - Optics & Lab	3/4		
General Education Course		General Education Course	3		
PHYS 498 – Senior Seminar					
Physics 316 - Computational Physics					
	16.5/ 15.5				
TOTAL CREDIT HOURS		TOTAL CREDIT HOURS	13/14		

## Total Credit Hours: 125

For more details and courses offered in the Colonnade General Education program visit the <u>website</u>.

**World Language Requirement**: Language Proficiency of novice-high before completing 60 credit hours is required (or completion of 2nd level of a language). Two credits (or equivalent) of a single world language in High School satisfies this WKU requirement.

For more Information: Department: Chemistry Website: <u>www.wku.edu/chemistry</u>

BACHELOR of SCIENCE in CHEMISTRY – PHYSICS (#754) Finish in Four plan (2018-19)

Phone: Chemistry - (270) 745-3457
Email: chemistry@wku.edu
Course Descriptions: http://www.wku.edu/undergraduatecatalog/