



**BACHELOR of SCIENCE in PHYSICS (#754)**  
 Department of Physics and Astronomy  
 Ogden College of Science and Engineering  
 Western Kentucky University

The suggested program of study shown below should be used in consultation with your advisor(s). Every student will finish with a unique plan of his/her own depending on the electives selected.

**Success Markers**

**SAMPLE - 4 Year Plan**

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

<b>SECOND YEAR</b>	<b>Fall Semester</b>		<b>Spring Semester</b>	
	<i>Volunteer or Join a Student Organization like The Society of Physics Students</i>	PHYS 265 & 266 – University Physics II (with a Lab)	5	PHYS 321 – Introductory Modern Physics II
MATH 237 – Multivariable Calculus		4	MATH 310 – Introduction to Discrete Mathematics	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 A-II	3
<b>TOTAL CREDIT HOURS</b>		<b>15</b>	<b>TOTAL CREDIT HOURS</b>	<b>16</b>

<b>SUMMER TERM</b>	<b>Summer Term</b>	
	<i>Why don't you study abroad?</i>	
<b>TOTAL CREDIT HOURS</b>		

THIRD YEAR  <i>Visit <a href="#">Career Services</a></i>	Fall Semester		Spring Semester	
	PHYS 350 – Classical Mechanics I	3	PHYS 440 – Electricity and Magnetism	3
	PHYS 460 & 461 – Solid State Physics (with a Lab)	4	PHYS 316 – Computational Physics <b>OR</b> PHYS 318 – Data Acquisition Using Labview	3
	PHYS 302 – Atomic Physics Laboratory	1	PHYS 398 – Junior Seminary	.5
	MATH 331 – Differential Equations	3	PHYS 450 – Classical Mechanics	3
	General Education Course F	1	General Education Course	3
	PHYS 330 - Thermodynamics	3	MATH 382 – Probability and Statistics I	3
	<b>TOTAL CREDIT HOURS</b>	<b>15</b>	<b>TOTAL CREDIT HOURS</b>	<b>15.5</b>

FOURTH YEAR  <i>Apply for Graduation <a href="#">CLICK HERE</a></i>  <i>Celebrate!</i>	Fall Semester		Spring Semester	
	General Education Course	3	PHYS 470 & 471 – Nuclear Physics (with a Lab)	4
	PHYS 445 – Electromagnetism II	3	MATH 450 – Complex Variables	3
	PHYS 441 & 404 – Optics (with a Lab)	4	General Education Course F	1
	PHYS 450 – Classical Mechanics II	3	General Education Course	3
	PHYS 498 – Senior Seminar	.5	General Education Course	3
	<b>TOTAL CREDIT HOURS</b>	<b>16.5</b>	<b>TOTAL CREDIT HOURS</b>	<b>14</b>

**Total Credit Hours: 123**

**PLEASE NOTE:** Prerequisites, Course Numbers, and Course Titles are subject to change. Consult your advisor each semester.

**For more Information:**

**Department:** Physics and Astronomy

**Website:** [www.wku.edu/physics](http://www.wku.edu/physics)

**Phone:** (270)745-4357

**Email:** [info@physics.wku.edu](mailto:info@physics.wku.edu)

**Course Descriptions:** <http://www.wku.edu/undergraduatecatalog/>