

**PHYSICS**  
Louisiana Tech University  
Curriculum as of 2016

Name \_\_\_\_\_

Date \_\_\_\_\_

CWID - - \_\_\_\_\_

Email \_\_\_\_\_@latech.edu

COURSE	PREREQUISITE	SCH	QTR	GRADE
PHYS 102		1		R
103		1		R
104		1		R
201	MATH 241	3		*R
202	PHYS 201, MATH 242	3		*R
261	MATH 112	1		R
262	PHYS 261	1		R
304	PHYS 202	3		R
307	PHYS 202	3		R
320		1		R
404		2		R
405		2		R
406	PHYS 202, MATH 245	3		R
407	PHYS 406	3		R
416	PHYS 202	3		*R
417	PHYS 416	3		*R
418		1		R
419	PHYS 418	1		R
422	PHYS 202, MATH 245	3		*R
423	PHYS 422	3		*R
424	PHYS 416, 423, MATH 245	3		*R
435		3		R
CHEM 101	CHEM 100	2		
102	CHEM 101	2		
103	CHEM 100, 101 <sup>o</sup>	1		
104	CHEM 102 <sup>o</sup> , CHEM 103	1		
COMM 101		3		<input type="checkbox"/>
ENGL 101		3		
102	ENGL 101	3		
MATH 241	MATH 240	3		*
242	MATH 241	3		*
243	MATH 242	3		*
244	MATH 243	3		*
245	MATH 244	3		*
<b>ELECTIVES</b>				
Art (ART 290, KINE 280, MUGN 290, or THTR 290)		3		
BISC		3		
Directed Elective		3		
Directed Elective		3		
Directed Elective		3		
Directed Elective		3		
Directed Elective		3		
Directed Elective		3		
Directed Elective		3		
Humanity		3		
Humanity		3		
NSE 300 or PHYS 410		3		
Social Science		3		
Social Science		3		
<b>TOTAL SEMESTER HOURS</b>		<b>120</b>		

SUBSTITUTIONS		
COURSE	SCH	GRADE
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

ADDITIONAL COURSES		
COURSE	SCH	GRADE
1		
2		
3		
4		
5		

GPA	
Rubric GPA	_____
MATH 241-245 GPA	_____

NOTES	
*	requires grade of "C" or higher
o	credit or registration in
R	course in rubric
1	Directed electives must be selected in consultation with advisor.
2	Petitions must be filed for substitutions.
3	A student must have a minimum 2.0 GPA on all hours pursued in courses designated: PHYS.
4	All students must complete an International Education Requirement (IER). Courses acceptable: HIST 102, GEOG 205, and GEOG 210.

ADDITIONAL COMMENTS	

IER requirement met

Advisor: \_\_\_\_\_

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FRESHMAN YEAR					
Fall Quarter	Hr	Winter Quarter	Hr	Spring Quarter	Hr
<b>PHYS 102</b> Introductory Physics	1	<b>PHYS 103</b> Introductory Physics	1	<b>PHYS 104</b> Introductory Physics	1
<i>MATH 240</i> Math for Engr & Science I	3	MATH 241 Calculus I	3	MATH 242 Calculus II	3
<i>CHEM 100</i> General Chemistry	2	CHEM 101 General Chemistry	2	CHEM 102 General Chemistry	2
ENGL 101 Freshman Composition I	3	CHEM 103 General Chemistry Lab	1	CHEM 104 General Chemistry Lab	1
FYE 100 Freshman Year Experience	1	ENGL 102 Freshman Composition II	3	COMM 101 Principles of Comm Studies	3
	10		10		10

SOPHOMORE YEAR					
Fall Quarter	Hr	Winter Quarter	Hr	Spring Quarter	Hr
PHYS 201 Physics for Engr & Science I	3	PHYS 202 Physics for Engr & Science II	3	<b>PHYS 307</b> Thermodynamics	3
MATH 243 Calculus III	3	MATH 244 Calculus IV	3	MATH 245 Differential Equations	3
PHYS 261 General Physics Lab I	1	PHYS 262 General Physics Lab II	1	BISC 130 Biological Principles	3
Social Science ***	3	Directed Elective***	3	Social Science ***	3
	10		10		12

JUNIOR YEAR					
Fall Quarter	Hr	Winter Quarter	Hr	Spring Quarter	Hr
<b>PHYS 410</b> PHYS 410 or NSE 300	3	<b>PHYS 417</b> Modern Physics II	3	<b>PHYS 424</b> Quantum Mechanics	3
<b>PHYS 416</b> Modern Physics I	3	<b>PHYS 419</b> Modern Physics Lab II	2	Directed Electi (STAT 405 Recommended)	3
<b>PHYS 418</b> Modern Physics Lab I	2	Directed Electi (MATH 308 Recommended)	3	Directed Elective***	3
Humanity***	3	Art*** See options under "Electives"	3	Directed Elective***	3
	11		11		12

SENIOR YEAR					
Fall Quarter	Hr	Winter Quarter	Hr	Spring Quarter	Hr
<b>PHYS 422</b> Physical Mechanics	3	<b>PHYS 404</b> Electricity I	2	<b>PHYS 304</b> Optics	3
<b>PHYS 435A</b> Undergraduate Research	1	<b>PHYS 406</b> Elect. & Magnetism I	3	<b>PHYS 320</b> Optics Lab	1
Directed Electiv (PHYS 412 Recommended)	3	<b>PHYS 423</b> Physical Mechanics	3	<b>PHYS 405</b> Electricity II	2
Directed Elective ***	3	<b>PHYS 435B</b> Undergraduate Research	1	<b>PHYS 407</b> Elect. & Magnetism II	3
		Humanity***	3	<b>PHYS 435C</b> Undergraduate Research	1
	10		12		10

Neither MATH 240 nor CHEM 100 count towards the physics degree.

\* requires grade of "C" or higher.

Courses in **bold** are *typically* offered only once per year.

Social Science electives can be selected from Anthropology, Criminal Justice, Economics, Geography, International Studies, Interdisciplinary, Political Science, Psychology, and Sociology.

Humanities electives can be selected from Classical Studies, Communications, Foreign Languages, History, Literature, Philosophy, Religious Studies, Interdisciplinary

All students must complete an International Education Requirement prior to graduation. A list of courses can be found in the university catalog.

Courses that do not have any pre-requisite requirement are: GEOG 205, GEOG 210, HIST 102.