

PHYSICS
Louisiana Tech University
Curriculum as of 2020 to Current

Name _____

Date _____

CWID _____

Email _____@latech.edu

COURSE	PREREQUISITE	SCH	QTR	GRADE
PHYS 102		1		
103	PHYS 102	1		
104	PHYS 103	1		
201	MATH 241	3		
202	PHYS 201, MATH 242	3		
261	MATH 112 or MATH 240	1		
262	PHYS 261	1		
304	PHYS 202	3		
307	PHYS 202	3		
320		1		
404		2		
405		2		
406	PHYS 202, MATH 350	3		
407	PHYS 406	3		
410	MATH 245 (May take NSE 300 instead)	3		
416	PHYS 202	3		
417	PHYS 416	3		
418		1		
419	PHYS 418	1		
422	PHYS 202, MATH 245	3		
423	PHYS 422	3		
424	PHYS 416, 423, MATH 245	3		
435	Consent of Instructor	3		
CHEM 101	CHEM 100	2		
102	CHEM 101	2		
103	CHEM 100, 101 ^o	1		
104	CHEM 103, CHEM 102 ^o	1		
COMM 101		3	<input type="checkbox"/>	
ENGL 101		3		
102	ENGL 101	3		
MATH 241	MATH 240 or Placement by Exam	3		
242	MATH 241	3		
243	MATH 242	3		
244	MATH 243	3		
245	MATH 244	3		
NSE 300	ENGR 122 or PHYS 104, MATH 243	Can be taken in place of PHYS 410		
ELECTIVES				
Fine Art (ART 290, KINE 280, MUGN 290, or THTR 290)		3		
Biological Science		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		
Social Science		3		
Social Science		3		
TOTAL SEMESTER HOURS		120		

SUBSTITUTIONS		
COURSE	SCH	GRADE
1		
2		
3		
4		
5		

ADDITIONAL COURSES		
COURSE	SCH	GRADE
1		
2		
3		
4		
5		

GPA
Rubric GPA _____
MATH 241-244 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.

ADDITIONAL COMMENTS

Advisor: _____

PHYSICS
Louisiana Tech University

FRESHMAN YEAR					
Fall Quarter	Hr	Winter Quarter	Hr	Spring Quarter	Hr
PHYS 102 Introductory Physics	1	PHYS 103 Introductory Physics	1	PHYS 104 Introductory Physics	1
MATH 240 Math for Engr & Science	3	MATH 241 Calculus I	3	MATH 242 Calculus II	3
CHEM 100 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 <input type="checkbox"/> Principles of Communication	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	PHYS 307 Thermodynamics	3
MATH 243 Calculus III	3	MATH 244 Calculus IV	3	MATH 245 Differential Equations	3
PHYS 261 General Physics Lab	1	PHYS 262 General Physics Lab II	1	BISC Biological Science	3
Social Science Elective**	3	Directed Elective◇	3	Social Science Elective**	3
	10		10		12
JUNIOR YEAR					
Fall Quarter	Hr	Winter Quarter	Hr	Spring Quarter	Hr
PHYS 410 Mathematical Methods in Phys. or NSE 300 (Offered Spring)	3	PHYS 417 Modern Physics II	3	PHYS 424 Quantum Mechanics	3
PHYS 416 Modern Physics I	3	PHYS 419 Modern Physics Lab II	1	Directed Elective◇ (STAT 405 Recommended)	3
PHYS 418 Modern Physics Lab I	1	Directed Elective◇ (MATH 308 Recommended)	3	Directed Elective◇	3
Humanity Elective†	3	Fine Arts Appreciation	3	Directed Elective◇	3
	10		10		9
SENIOR YEAR					
Fall Quarter	Hr	Winter Quarter	Hr	Spring Quarter	Hr
PHYS 422 Physical Mechanics	3	PHYS 404 Electronics	2	PHYS 304 Physical Optics	3
PHYS 435A Undergraduate Research	1	PHYS 406 Electricity & Magnetism I	3	PHYS 320 Optics Lab	1
Directed Elective◇ (PHYS 412 Recommended)	3	PHYS 423 Physical Mechanics	3	PHYS 405 Applied Electronics & Electro.	2
Directed Elective◇	3	PHYS 435B Undergraduate Research	1	PHYS 407 Electricity & Magnetism II	3
	3	Humanity Elective†	3	PHYS 435C 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.

□ Must be taken within first year of enrollment.

◇Directed Electives chosen by the student in consultation with faculty advisor.

**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 Language, History, Literature, Philosophy, Religious Studies, Interdisciplinary.

‡ Medical Physics track will require 12 hours in Biologicals Science, 16 hours in Chemistry, 15 hours in Math, 6 hours in Social Science, and 53 hours in Physics and should be chosen by student in consultation with academic advisor.