

MATHEMATICS CURRICULUM 2022
LOUISIANA TECH UNIVERSITY

Name _____

Date _____

Student ID _____

Email _____

COURSE	PREREQUISITE	SH	SCHED	GRADE
MATH 241	MATH 240 (or by placement)	3	_____	* _____
242	MATH 241	3	_____	* _____
243	MATH 242	3	_____	* _____
244	MATH 243	3	_____	* _____
245	MATH 244	3	_____	* _____
307	MATH 243	3	Sp, F	* _____
308	MATH 243 or MATH 311	3	_____	* _____
408	MATH 307 or 311	3	F	* _____
482	MATH 244 and one of MATH 311 or 307	3	W	* _____

SUBSTITUTIONS	APPR	SH	GRADE
1 _____	_____	_____	_____
2 _____	_____	_____	_____
3 _____	_____	_____	_____
4 _____	_____	_____	_____
5 _____	_____	_____	_____

Mathematics or Statistics Electives (see note 6)

1st course	_____	3	_____	* _____
2nd course	_____	3	_____	* _____
3rd course	_____	3	_____	* _____
4th course	_____	3	_____	* _____
5th course	_____	3	_____	* _____

ADDITIONAL COURSES	SH	GRADE
1 _____	_____	_____
2 _____	_____	_____
3 _____	_____	_____
4 _____	_____	_____
5 _____	_____	_____

Senior Research Capstone

MATH 394	MATH 308 & consent of instructor	2	F	* _____
MATH 495	MATH 394	1	F	* _____
MATH 496	MATH 495	1	W	* _____
MATH 497	MATH 496	1	Sp	* _____

CHEM 101	CHEM 100 (or by placement)	2	_____	* _____
102	CHEM 101	2	_____	_____
103	CHEM 101o	1	_____	* _____
104	CHEM 103	1	_____	_____

ENGL 101	_____	3	_____	_____
102	ENGL 101	3	_____	_____
210, 211, or 212	ENGL 102	3	_____	_____
303	ENGL 102	3	_____	_____

COMM 101	FYEo	3	_____	_____
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PHYS 201	MATH 241	3	_____	* _____
202	PHYS 201, MATH 242	3	_____	_____
261	MATH 241	1	_____	* _____
262	PHYS 261	1	_____	_____

INEN 300	MATH 220, 242, or MEMT 206	2	_____	_____
INEN 301	See note 3 & 4	3	W	_____

Concentration or Minor Courses (see note 6)

1st course	_____	3	_____	* _____
2nd course	_____	3	_____	* _____
3rd course	_____	3	_____	* _____
4th course	_____	3	_____	* _____
5th course	_____	3	_____	* _____
6th course	_____	3	_____	* _____

ELECTIVES/ GER

Fine Arts	See note 1	3	_____	_____
HIST	_____	3	_____	_____
BISC 101	_____	3	_____	_____
Social/Behavioral Sciences	See note 2	3	_____	_____
Social/behavioral Sciences	See note 2	3	_____	_____
Computer Literacy (select one of the following)	_____	3	_____	_____
CSC 130	_____	_____	F, W	_____
MATH 313	_____	_____	_____	_____
Foreign Language	See note 3 & 4	3	_____	_____

TOTAL SEMESTER HOURS		120		
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NOTES

- * Requires grade of "C" or better.
- o Credit or registration in
- 1 Music, Visual Arts, Applied Arts, Theatre, Dance, Interdisciplinary (e.g. ART 290; KINE 280; MUGN 290; THTR 290, etc)
- 2 Social Science - Anthropology, Criminal Justice, Economics, Geography, International Studies, Interdisciplinary, Political Science
Behavioral Science - Psychology, Sociology
- 3 These courses can be replaced by those at or above the 300 level in English, mathematics, or the student's minor/concentration. Must have advisor's approval.
- 4 Substitutions must be initiated by Program Chair. Put Substitution number in the "grade" blank of the course being replaced.
- 5 A student must have a 2.0 grade point average on all hours pursued in courses designated as MATH or STAT (Mathematics or Statistics).
- 6 Directed electives must be selected in consultation with student's advisor.

Comments: _____

MATHEMATICS
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FRESHMAN YEAR														
Fall Quarter			Cr	Gr	Winter Quarter			Cr	Gr	Spring Quarter			Cr	Gr
<i>MATH 240</i> †	Math for Engr & Science	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				
BISC 101	Fundamentals of Biology	3		CHEM 103*	General Chemistry Lab	1		CHEM 104	General Chemistry Lab	1				
<i>FYE 100</i> †	University Seminar	1		ENGL 101	Freshman Composition I	3		ENGL 102	Freshman Composition II	3				
				History Elective		3		Comm 101		3				
		9				12				12				12

SOPHOMORE YEAR														
Fall Quarter			Cr	Gr	Winter Quarter			Cr	Gr	Spring Quarter			Cr	Gr
MATH 243*	Calculus III	3		MATH 244*	Calculus IV	3		MATH 245*	Differential Equations	3				
PHYS 201*	Physics for Engr & Sci I	3		PHYS 202	Physics for Engr & Sci II	3		Concentration/Minor *		3				
PHYS 261*	General Physics Lab	1		PHYS 262	General Physics Lab	1		MATH 307 *	Fundamentals of Mathematics	3				
MATH/STAT Electives (MATH 311 or STAT 405)		3		MATH 308*	Introduction to Linear Algebra	3		Social Science **		3				
		10				10				12				12

JUNIOR YEAR														
Fall Quarter			Cr	Gr	Winter Quarter			Cr	Gr	Spring Quarter			Cr	Gr
MATH 408 †§	Introduction to Abstract Algebra	3		MATH 482 †§	Introduction to Real Analysis	3		Fine Arts Appreciation		3				
Concentration/Minor*		3		Foreign Language ***		3		Concentration/Minor*		3				
ENGL 210, 211 or 212 Literature		3		Concentration/Minor*		3		MATH/STAT Electives*		3				
INEN 300***	Engineering Economics	2		INEN 301 ***	Industrial Cost Analysis	3								
		11				12				9				9

SENIOR YEAR														
Fall Quarter			Cr	Gr	Winter Quarter			Cr	Gr	Spring Quarter			Cr	Gr
MATH 394 *	Research Methods	2		MATH/STAT Elective*		3		MATH/STAT Elective*		3				
MATH 495 *	Senior Research Capstone I	1		CSC 130 or MATH 313		3		Concentration/Minor*		3				
Concentration/Minor*		3		ENGL 303	Technical Writing	3		Social Science **		3				
MATH/STAT Electives		3		MATH 496 *	Senior Research Capstone II	1		MATH 497 *	Senior Research Capstone*	1				
		9				10				10				10

† Neither *MATH 240* nor *CHEM 100* counts toward the Mathematics degree. Placement exams are available. *FYE 100* will not be counted either.

* Grade of C or higher required

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

*** Can be replaced by courses which are approved by the student's advisor and are at the 300 level in English, mathematics, or the student's minor/concentration.

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

§ These can be taken in the senior year if necessary.