Major/Program	Mathematics (Engineering)
College	Science and Mathematics
Department	Mathematics and Computing
Contact	Dr. Jennifer Yates, Interim Dean

Lander University 4-Year Major Guide Odd Year Fall Entry

2023-2024

First Year

Second Year

Third Year

Summer

Fir	st Semester		Secon	d Semester	
irse	Notes	Hours	Course	Notes	Hours
EM 111		4	CIS 130		4
L 101	Core Academic Skills (General Education)	3	ENGL 102	Core Academic Skills (General Education)	3
101, HIST 102, HIST ANTH 101, PSYC 101	Behavioral and Social Perspectives (General Education)	3	MATH 134		3
TH 141	Core Academic Skills (General Education)	4	MATH 142	Scientific and Mathematical Reasoning (General Education)	4
K 101	Leadership, Involvement, Networking and Knowledge (General Education)	1	SOC1 101,SOCI 202,POLS 103,ECON 201,ECON 202	Behavioral and Social Perspectives (General Education)	3
	Subtotal	15		Subtotal	17
Fir	st Semester		Secon	d Semester	
	Notes	Hours	Course	Notes	Hours
Elective OR World	World Cultures (General Education)	3	CHEM 112, GEOL 111, or BIOL 101		3
H 241		4	ENGL 201, 202, 204, 205, ENGL 221, 241, or 251	Education) (Clemson Literature	3
H 308		3	MATH 242	Rqmnt]	4
H 308 tive or Math elective		3	PHYS 212		4
tive or math elective S 211	Scientific and Mathematical	3 4	FR13212		4
411	Reasoning (General Education)				
	Subtotal	17		Subtotal	14
Fir	st Semester		Secon	d Semester	
	Notes	Hours	Course		Hours
se	Notes	Hours 4		Notes	Hours 4
ise n Elective OR Elective	Notes		Course Elective or Math elective  HIST 111R, HIST 112R, or		
rse h Elective OR Elective 202 MA 285, 330,THTR 201, SI 101, 333, 377, 378, or	Humanities and Fine Arts (General	4	Course Elective or Math elective HIST 111R,	Notes Founding Documents (General	4
Se Elective OR Elective 02 A 285, 330,THTR 201, 101, 333, 377, 378, or 102, 103	Humanities and Fine Arts (General Education) (Clemson Non Literature	3	Course Elective or Math elective HIST 111R, HIST 112R, or POLS 101R	Notes Founding Documents (General	3
285, 330,THTR 201, 101, 333, 377, 378, or 02, 103 421 or MATH 431	Humanities and Fine Arts (General Education) (Clemson Non Literature	4 3 3	Course Elective or Math elective HIST 111R, HIST 112R, or POLS 101R MATH 499  Math Elective OR World Cultures Math Elective OR Elective	Notes  Founding Documents (General Education)  World Cultures (General Education)	4 3 1
285, 330,THTR 201, 01, 333, 377, 378, or 02, 103 421 or MATH 431	Humanities and Fine Arts (General Education) (Clemson Non Literature Rqmnt)	4 3 3 3 3	Course Elective or Math elective HIST 111R, HIST 112R, or POLS 101R MATH 499  Math Elective OR World Cultures	Founding Documents (General Education)  World Cultures (General Education)  University Requirement	4 3 1 3 3 0
A 285, 330,THTR 201, 101, 333, 377, 378, or 102, 103   421 or MATH 431	Humanities and Fine Arts (General Education) (Clemson Non Literature	4 3 3	Course Elective or Math elective HIST 111R, HIST 112R, or POLS 101R MATH 499  Math Elective OR World Cultures Math Elective OR Elective	Notes  Founding Documents (General Education)  World Cultures (General Education)	4 3 1 3 3
18	Humanities and Fine Arts (General Education) (Clemson Non Literature Rqmnt)	4 3 3 3 3	Course Elective or Math elective HIST 111R, HIST 112R, or POLS 101R MATH 499  Math Elective OR World Cultures Math Elective OR Elective	Notes  Founding Documents (General Education)  World Cultures (General Education)  University Requirement  Subtotal  Total Hours Required	4 3 1 3 3 0
SE Elective OR Elective 02 A 285, 330,THTR 201, 101, 333, 377, 378, or 102, 103 I 421 or MATH 431	Humanities and Fine Arts (General Education) {Clemson Non Literature Rqmnt] Subtotal	4 3 3 3 3 16	Course Elective or Math elective  HIST 111R, HIST 112R, or POLS 101R MATH 499  Math Elective OR World Cultures Math Elective OR Elective *FALS 101	Founding Documents (General Education)  World Cultures (General Education)  University Requirement  Subtotal  Total Hours Required From Lander:	4 3 1 3 3 0
SE Elective OR Elective 02 A 285, 330,THTR 201, 101, 333, 377, 378, or 102, 103 I 421 or MATH 431	Humanities and Fine Arts (General Education) (Clemson Non Literature Rqmnt)	4 3 3 3 3	Course Elective or Math elective HIST 111R, HIST 112R, or POLS 101R MATH 499  Math Elective OR World Cultures Math Elective OR Elective	Notes  Founding Documents (General Education)  World Cultures (General Education)  University Requirement  Subtotal  Total Hours Required	4 3 1 3 3 0
rse n Elective OR Elective 202 IA 285, 330,THTR 201,	Humanities and Fine Arts (General Education) {Clemson Non Literature Rqmnt] Subtotal	4 3 3 3 3 16	Course Elective or Math elective  HIST 111R, HIST 112R, or POLS 101R MATH 499  Math Elective OR World Cultures Math Elective OR Elective *FALS 101	Founding Documents (General Education)  World Cultures (General Education)  University Requirement  Subtotal  Total Hours Required From Lander:	4 3 1 3 3 0
Se Elective OR Elective 202 A 285, 330,THTR 201, 1101, 333, 377, 378, or 102, 103 H 421 or MATH 431 H 311	Humanities and Fine Arts (General Education) {Clemson Non Literature Rqmnt] Subtotal	4 3 3 3 3 16	Course Elective or Math elective  HIST 111R, HIST 112R, or POLS 101R MATH 499  Math Elective OR World Cultures Math Elective OR Elective *FALS 101  Course	Founding Documents (General Education)  World Cultures (General Education)  University Requirement  Subtotal  Total Hours Required From Lander: Notes  Clemson encourages students to take one course at Clemson in the summer prior to entening the engineering program.	4 3 1 3 3 0 14 Hours
18 Elective OR Elective 18 202 18 285, 330,THTR 201, 18 101, 333, 377, 378, or 102, 103 19 421 or MATH 431 19 311	Humanities and Fine Arts (General Education) {Clemson Non Literature Rqmnt}  Subtotal	4 3 3 3 3 16 Hours	Course Elective or Math elective  HIST 111R, HIST 112R, or POLS 101R MATH 499  Math Elective OR World Cultures Math Elective OR Elective *FALS 101  Course  Clemson Course	Founding Documents (General Education)  World Cultures (General Education)  University Requirement  Subtotal  Total Hours Required From Lander: Notes  Clemson encourages students to take one course at Clemson in the summer prior to entering the engineering program.	4 3 1 3 3 0 14 Hours 3
Se Elective OR Elective 202 A 285, 330,THTR 201, I 101, 333, 377, 378, or 102, 103 H 421 or MATH 431 H 311	Humanities and Fine Arts (General Education) {Clemson Non Literature Rqmnt] Subtotal	4 3 3 3 3 16	Course Elective or Math elective  HIST 111R, HIST 112R, or POLS 101R MATH 499  Math Elective OR World Cultures Math Elective OR Elective *FALS 101  Course  Clemson Course	Founding Documents (General Education)  World Cultures (General Education)  University Requirement  Subtotal  Total Hours Required From Lander: Notes  Clemson encourages students to take one course at Clemson in the summer prior to entering the engineering program.  Subtotal  Notes	4 3 1 3 3 0 14 Hours 3
22 A 285, 330,THTR 201, 101, 333, 377, 378, or 102, 103 A 281 A 28	Humanities and Fine Arts (General Education) {Clemson Non Literature Rqmnt}  Subtotal	4 3 3 3 3 16 Hours	Course Elective or Math elective  HIST 111R, HIST 112R, or POLS 101R MATH 499  Math Elective OR World Cultures Math Elective OR Elective *FALS 101  Course  Clemson Course	Founding Documents (General Education)  World Cultures (General Education)  University Requirement  Subtotal  Total Hours Required From Lander: Notes  Clemson encourages students to take one course at Clemson in the summer prior to entering the engineering program.  Subtotal  Notes	4 3 1 3 3 0 14 Hours 3
Se Elective OR Elective 02 A 285, 330,THTR 201, 101, 333, 377, 378, or 102, 103 I 421 or MATH 431	Humanities and Fine Arts (General Education) {Clemson Non Literature Rqmnt}  Subtotal	4 3 3 3 3 16 Hours	Course Elective or Math elective  HIST 111R, HIST 112R, or POLS 101R MATH 499  Math Elective OR World Cultures Math Elective OR Elective *FALS 101  Course  Clemson Course	Founding Documents (General Education)  World Cultures (General Education)  University Requirement  Subtotal  Total Hours Required From Lander: Notes  Clemson encourages students to take one course at Clemson in the summer prior to entering the engineering program.  Subtotal  Notes	4 3 1 3 3 0 14 Hours 3

Civil Engineering requires GEOL 111. Electrical requires CHEM 112. Environmental requires CHEM 112, GEOL 111, and BIOL 101. Industrial may use any one of the three to complete lab science requirements at Clemson.

Students in Mechanical Engineering strongly encouraged to take MATH 300:Numerical Analysis. Students in Electrical Engineering strongly encouraged to take MATH 325 Discrete Mathematics and either MATH 431 Analysis I (even fall) or MATH 432 Complex Analysis (odd spring)

CIS 230 is required in the Electrical Engineering program.

CIS 231 (every fall) is recommended for Computer Engineering

SPCH 101 is strongly encouraged for Civil, Electrical and Industrial Engineering programs as it fulfills Clemson's Oral Communication requirement.

WRIT 450 Technical Writing will fulfill a Clemson requirement for Civil, Computer, Electrical, and Mechanical engineering programs.