

NANOSYSTEMS ENGINEERING

Louisiana Tech University
Curriculum as of 2016 to Current

Name _____

Date _____

CWID _____

Email _____@latech.edu

COURSE	PREREQUISITE	SCH	QTR	GRADE
NSE 202	CHEM 102, PHYS 201	3	W	R*
300	ENGR 122 or PHYS 104, MATH 243	3	Sp	R
302	CHEM 251, CHEM 253, NSE 201 or NSE 202	2	Sp	R*
406	NSE 302, ENGR 220, 221, 222, MATH 245	1	F	R*
407	NSE 406	1	W	R*
408	NSE 407	1	Sp	R*
410	MSE 404	3	F	R
490	CHEM 251	3	Sp	R*
CHEM 101	CHEM 100 (or by placement)	2		*
102	CHEM 101	2		*
103	CHEM 101 ^o	1		*
104	CHEM 103	1		*
250	CHEM 102	2		*
251	CHEM 250, 253 ^o	2		*
253	CHEM 102, 251 ^o	1		*
COMM 101	FYE 100 ^o	3		□
ELEN 334	MATH 244, ENGR 221, PHYS 202	3	F	R*
ENGL 101		3		
102	ENGL 101	3		
303	ENGL 102	3		
ENGR 120	MATH 240 ^o , CHEM 100 ^o	2		*
121	ENGR 120, MATH 241 ^o , CHEM 101 ^o	2		*
122	ENGR 121, MATH 242 ^o	2		*
220	ENGR 122, MATH 242, PHYS 201	3		R
221	ENGR 122, MATH 242, PHYS 201	3		R*
222	ENGR 122, MATH 242	3		R*
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		*
MEEN 382	ENGR 221, MATH 241-244 GPA ≥ 2.0	2	F,W	R
MEMT 201	ENGR 122	2		R*
MSE 402	ELEN 334	3	W	R
404	MEMT 201, ELEN 334	3	W	R*
406	PHYS 202	3	Sp	R*
PHYS 201	MATH 241	3		*
202	PHYS 201, MATH 242	3		*
412	PHYS 202, MATH 244	3	F	R
ELECTIVES				
Fine Art (ART 290, KINE 280, MUGN 290, or THTR 290)		3		
BISC 130 or 225		3		
Directed Elective		3		R
Directed Elective		3		R
Directed Elective		3		R
Directed Elective		3		R
Directed Elective		3		R
Directed Elective		3		R
HIST		3		
Social Science		3		
Social Science		3		
TOTAL SEMESTER HOURS		128		

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 241-244 GPA	_____

NOTES	
*	requires grade of "C" or higher
o	credit or registration in
R	course in rubric
□	must be completed within first year of enrollment
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 "R"
4	BIEN concentration take BISC 225 and 226. All other students take BISC 130.

ADDITIONAL COMMENTS	

Advisor: _____

NANOSYSTEMS ENGINEERING CONCENTRATIONS

Louisiana Tech University

BIOMEDICAL ENGINEERING CONCENTRATION						
COURSE		SCH	GRADE			PREREQUISITE
BIEN	202 or	Biomedical Engineering Principles I	1	R		MATH 241
	203	Biomedical Engineering Principles II		R		MATH 241
	225	Biomedical Signals and Systems	3	R		ENGR 221, MATH 244, BIEN 203
	235	Applied Biomaterials	3	R		MEMT 201
	301	Biomedical Fluid Mechanics & Energy Transfer	3	R		BIEN 202, ENGR 222, and 2.0 GPA in MATH 241-245
	401 or	Biomedical Mass Transport	3	R		BIEN 301, MATH 245
	430	Biomechanics		R		BIEN 235, 301, ENGR 220
Engr, Sci, or ENGL 363 300-level or higher			3	R		
			2	R		
TOTAL			18			

CHEMICAL ENGINEERING CONCENTRATION						
COURSE		SCH	GRADE			PREREQUISITE
CMEN	202	Chemical Engineering Calculations	3	R		MATH 241, ENGR 122o
	304	Transport Phenomena	3	R		CMEN 313, MATH 245, 2.0 GPA in MATH 241-245
	313	Unit Operations-Design II	3	R		CMEN 202, 213, ENGR 222, MATH 245
	402	Chemical Reactions Engineering	3	R		CMEN 202 and Senior Standing
Engr, Sci, or ENGL 363 300-level or higher			3	R		
			3	R		
TOTAL			18			

ELECTRICAL ENGINEERING CONCENTRATION						
COURSE		SCH	GRADE			PREREQUISITE
ELEN	223	Electrical Circuits II	3	R		ENGR 221
	224	Electrical Circuits III	3	R		ELEN 223, MATH 245o
	335	Electronic Circuits I	3	R		ELEN 224, 334
	336	Electronic Circuits II	3	R		ELEN 335
Engr, Sci, or ENGL 363 300-level or higher			3	R		
			3	R		
TOTAL			18			

MECHANICAL ENGINEERING CONCENTRATION						
COURSE		SCH	GRADE			PREREQUISITE
MEEN	350	Computer-Aided Modeling	1	R		ENGR 220, 2.0 GPA in MATH 241-244
	353 or	Heat Transfer	3	R		MATH 245, MEEN 350, ENGR 222
	361	Advanced Mechanics of Materials		R		MEEN 350, MEMT 211 or 212
MEMT	203	Dynamics	3	R		ENGR 220
	212	Intermediate Statics & Mechanics of Materials	3	R		ENGR 220, 2.0 GPA in MATH 241-243
	313	Elementary Fluid Mechanics	3	R		ENGR 222, MEMT 203, 2.0 GPA in MATH 241-244
Engr, Sci, or ENGL 363 300-level or higher			2	R		
			3	R		
TOTAL			18			

MICROSYSTEMS ENGINEERING CONCENTRATION						
COURSE		SCH	GRADE			PREREQUISITE
MSE	401	Fundamentals of Microfabrication Processes	3	R		PHYS 202, MATH 245
	405	Nanotechnology Principles	3	R		
	407	Advanced Microfabrication w/CAD	3	R		MSE 401
	457	Special Topics: Micro System Engineering	3	R		
Engr, Sci, or ENGL 363 300-level or higher			3	R		
			3	R		
TOTAL			18			

* requires grade of "C" or higher

o indicates co-requisite

R-Course is in NSE Rubric

Reviewed June 2020

NANOSYSTEMS ENGINEERING
Louisiana Tech University
Biomedical Engineering Concentration

FRESHMAN YEAR								
Fall Quarter		Hr	Winter Quarter		Hr	Spring Quarter		Hr
ENGR 120	* Engr Problem Solving I	2	ENGR 121	* Engr Problem Solving II	2	ENGR 122	* Engr Problem Solving III	2
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
COMM 101	□ Principles of Comm Studies	3	CHEM 103	* General Chemistry Lab	1	CHEM 104	* General Chemistry Lab	1
FYE 100	Freshman Year Experience	1	ENGL 101	Freshmen Composition	3	PHYS 201	* Physics for Engr & Sci. I	3
						BIEN 202	Biomedical Engr Principles I	1
						or BIEN 203 (offered in Fall)		
		11			11			12

SOPHOMORE YEAR								
Fall Quarter		Hr	Winter Quarter		Hr	Spring Quarter		Hr
ENGR 222	* Thermodynamics	3	ENGR 221	* Electrical Engr & Circuits I	3	ENGR 220	* Statics and Mechs of Materials	3
MATH 243	* Calculus III	3	MATH 244	* Calculus IV	3	MATH 245	* Differential Equations	3
MEMT 201	* Engineering Materials	2	NSE 202	* Intro. to Nanosystems Engr	3	NSE 300	Intro. to Programming for Engr &	3
PHYS 202	* Physics for Engr & Sci II	3	ENGL 102	Freshmen Composition II	3	BIEN 235	Applied Biomaterials	3
BIEN 203	Biomedical Engr Principles II							
	or BIEN 202 (offered in Spring)							
		11			12			12

JUNIOR YEAR								
Fall Quarter		Hr	Winter Quarter		Hr	Spring Quarter		Hr
BIEN 225	Biomedical Signals & Systems	3	BIEN 301	Fluid Mech. & Energy Transfer	3	NSE 302	* Nanomanufacturing	2
ELEN 334	* Solid State Electronics	3	MSE 402	MEMS/NEMS	3	NSE 490	* Nanosystems Modeling	3
CHEM 250	* Organic Chemistry	2	MSE 404	* Micro/Nanomaterials	3	MSE 406	* Micro/Nano Measurements	3
BISC 225	Human Anatomy & Physiology	3	CHEM 251	* Organic Chemistry	2	BIEN 401	Biomed. Mass Transport	3
			CHEM 253	* Organic Chemistry Lab	1	or BIEN 430 Biomechanics in Fall		
		11			12			11

SENIOR YEAR								
Fall Quarter		Hr	Winter Quarter		Hr	Spring Quarter		Hr
NSE 406	* Senior Design I	1	NSE 407	* Senior Design II	1	NSE 408	Senior Design III	1
NSE 410	Nanosystems & Devices	3	Directed Elective◇		3	Fine Art Appreciation		3
MEEN 382	Basic Measurements	2	Social Science**		3	History Elective		3
PHYS 412	Solid State Physics	3	Social Science**		3	Directed Elective◇		2
ENGL 303	Technical Writing	3						
		12			10			9

Neither MATH 240 nor CHEM 100 count towards the nanosystems engineering degree.

* Requires grade of "C" or higher.

◇Directed electives are chosen in consultation with advisor and approved by the Program Chair. Eng. or Sci. 300 or 400 level courses or ENGL 363.

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.

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NANOSYSTEMS ENGINEERING

Louisiana Tech University
Chemical Engineering Concentration

FRESHMAN YEAR								
Fall Quarter		Hr	Winter Quarter		Hr	Spring Quarter		Hr
ENGR 120	* Engr Problem Solving I	2	ENGR 121	* Engr Problem Solving II	2	ENGR 122	* Engr Problem Solving III	2
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
COMM 101	□ Principles of Comm Studies	3	CHEM 103	* General Chemistry Lab	1	CHEM 104	* General Chemistry Lab	1
FYE 100	Freshman Year Experience	1	ENGL 101	Freshman Composition	3	PHYS 201	* Physics for Engr & Sci I	3
		11			11			11

SOPHOMORE YEAR								
Fall Quarter		Hr	Winter Quarter		Hr	Spring Quarter		Hr
ENGR 220	Statics and Mechs of Materials	3	ENGR 221	* Electrical Engr & Circuits I	3	ENGR 222	* Thermodynamics	3
MATH 243	* Calculus III	3	MATH 244	* Calculus IV	3	MATH 245	* Differential Equations	3
PHYS 202	* Physics for Engr & Sci II	3	NSE 202	* Intro. to Nanosystems Engr	3	NSE 300	* Intro. to Programming for Engr &	3
CMEN 202	* Chemical Engr Calculations	3	MEMT 201	* Engineering Materials	2	ENGL 102	Freshman Composition II	3
		12			11			12

JUNIOR YEAR								
Fall Quarter		Hr	Winter Quarter		Hr	Spring Quarter		Hr
CHEM 250	* Organic Chemistry	2	CHEM 251	* Organic Chemistry	2	CMEN 304	Transport Phenomena	3
History Elective		3	CHEM 253	* Organic Chemistry Lab	1	MSE 406	* Micro/Nano Measurements	3
ELEN 334	* Solid State Electronics	3	CMEN 313	Unit Operations-Design II	3	NSE 490	* Nanosystems Modeling	3
BISC 130	Biological Principles	3	MSE 402	MEMS/NEMS	3	NSE 302	* Nanomanufacturing	2
			MSE 404	* Micro/Nanomaterials	3			
		11			12			11

SENIOR YEAR								
Fall Quarter		Hr	Winter Quarter		Hr	Spring Quarter		Hr
NSE 406	* Senior Design I	1	NSE 407	* Senior Design II	1	NSE 408	Senior Design III	1
NSE 410	Nanosystems & Devices	3	Social Science**		3	Directed Elective◇		3
CMEN 402	Chemical Reaction Engineering	3	Directed Elective◇		3	Fine Art Appreciation		3
MEEN 382	Basic Measurements	2	ENGL 303	Technical Writing	3	Social Science**		3
PHYS 412	Solid State Physics	3						
		12			10			10

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NANOSYSTEMS ENGINEERING

Louisiana Tech University
Electrical Engineering Concentration

FRESHMAN YEAR								
Fall Quarter		Hr	Winter Quarter		Hr	Spring Quarter		Hr
ENGR 120	* Engr Problem Solving I	2	ENGR 121	* Engr Problem Solving II	2	ENGR 122	* Engr Problem Solving III	2
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
COMM 101	Principles of Comm Studies	3	CHEM 103	* General Chemistry Lab	1	CHEM 104	* General Chemistry Lab	1
FYE 100	Freshman Year Experience	1	ENGL 101	Freshman Composition	3	PHYS 201	* Physics for Engr & Sci I	3
		11			11			11

SOPHOMORE YEAR								
Fall Quarter		Hr	Winter Quarter		Hr	Spring Quarter		Hr
ENGR 220	Statics and Mechs of Materials	3	ENGR 221	* Electrical Engr & Circuits I	3	ENGR 222	* Thermodynamics	3
MATH 243	* Calculus III	3	MATH 244	* Calculus IV	3	ELEN 223	Electrical Circuits II	3
MEMT 201	* Engineering Materials	2	NSE 202	* Intro. to Nanosystems Engr.	3	MATH 245	* Differential Equations	3
PHYS 202	* Physics for Engr & Sci II	3	ENGL 102	Freshman Composition II	3	NSE 300	* Intro. to Programming for Engr &	3
		11			12			12

JUNIOR YEAR								
Fall Quarter		Hr	Winter Quarter		Hr	Spring Quarter		Hr
CHEM 250	* Organic Chemistry	2	CHEM 251	* Organic Chemistry	2	ELEN 336	Electronic Circuits II	3
ELEN 224	Electrical Circuits III	3	CHEM 253	* Organic Chemistry Lab	1	MSE 406	* Micro/Nano Measurements	3
ELEN 334	* Solid State Electronics	3	ELEN 335	Electronic Circuits I	3	NSE 302	* Nanomanufacturing	2
BISC 130	Biological Principles	3	MSE 402	* MEMS AND NEMS	3	NSE 490	* Nanosystems Modeling	3
			MSE 404	* Micro/Nanomaterials	3			
		11			12			11

SENIOR YEAR								
Fall Quarter		Hr	Winter Quarter		Hr	Spring Quarter		Hr
NSE 406	* Senior Design I	1	NSE 407	* Senior Design II	1	NSE 408	Senior Design III	1
NSE 410	Nanosystems & Devices	3	Social Science**		3	Fine Art Appreciation		3
MEEN 382	Basic Measurements	2	History Elective		3	Social Science**		3
PHYS 412	Solid State Physics	3	Directed Elective ◊		3	Directed Elective ◊		3
ENGL 303	Technical Writing	3						
		12			10			10

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NANOSYSTEMS ENGINEERING
Louisiana Tech University
Mechanical Engineering Concentration

FRESHMAN YEAR								
Fall Quarter		Hr	Winter Quarter		Hr	Spring Quarter		Hr
ENGR 120	* Engr Problem Solving I	2	ENGR 121	* Engr Problem Solving II	2	ENGR 122	* Engr Problem Solving III	2
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
COMM 101	Principles of Comm Studies	3	CHEM 103	* General Chemistry Lab	1	CHEM 104	* General Chemistry Lab	1
FYE 100	Freshman Year Experience	1	ENGL 101	Freshman Composition	3	PHYS 201	* Physics for Engr & Sci I	3
		11			11			11

SOPHOMORE YEAR								
Fall Quarter		Hr	Winter Quarter		Hr	Spring Quarter		Hr
ENGR 220	* Statics and Mechs of Materials	3	ENGR 221	* Electrical Engr & Circuits I	3	ENGR 222	* Thermodynamics	3
MATH 243	* Calculus III	3	MATH 244	* Calculus IV	3	MATH 245	* Differential Equations	3
MEMT 201	* Engineering Materials	2	NSE 202	* Intro. to Nanosystems Engr	3	NSE 300	* Intro. to Progr. for Engr & Sci	3
PHYS 202	* Physics for Engr & Sci II	3	ENGL 102	Freshman Composition II	3	History Elective		3
		11			12			12

JUNIOR YEAR								
Fall Quarter		Hr	Winter Quarter		Hr	Spring Quarter		Hr
CHEM 250	* Organic Chemistry	2	CHEM 251	* Organic Chemistry	2	MSE 406	* Micro/Nano Measurements	3
MEEN 350	* Computer Aided Modeling	1	CHEM 253	* Organic Chemistry Lab	1	NSE 302	* Nanomanufacturing	2
ELEN 334	* Solid State Electronics	3	MEMT 212	Intermediate Statics & Mech of Mat.	3	NSE 490	* Nanosystems Modeling	3
MEMT 203	Dynamics	3	MSE 402	* MEMS and NEMS	3	MEEN 353	Heat Transfer or	3
BISC 130	Biological Principles	3	MSE 404	* Micro/Nanomaterials	3	or MEEN 361 Advanced Mechanics of Materials		
		12			12			11

SENIOR YEAR								
Fall Quarter		Hr	Winter Quarter		Hr	Spring Quarter		Hr
NSE 406	* Senior Design I	1	NSE 407	* Senior Design II	1	NSE 408	* Senior Design III	1
NSE 410	* Nanosystems & Devices	3	ENGL 303	Technical Writing	3	Fine Art Appreciation		3
MEMT 313	Dynamics	3	Social Science**		3	Social Science**		3
MEEN 382	Basic Measurements	2	Directed Elective∅		2	Directed Elective∅		3
PHYS 412	* Solid State Physics	3						
		12			9			10

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NANOSYSTEMS ENGINEERING
Louisiana Tech University
Microsystems Engineering Concentration

FRESHMAN YEAR								
Fall Quarter		Hr	Winter Quarter		Hr	Spring Quarter		Hr
ENGR 120	* Engr Problem Solving I	2	ENGR 121	* Engr Problem Solving II	2	ENGR 122	* Engr Problem Solving III	2
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
COMM 101	Principles of Comm Studies	3	CHEM 103	* General Chemistry Lab	1	CHEM 104	* General Chemistry Lab	1
FYE 100	Freshman Year Experience	1	ENGL 101	Freshman Composition	3	PHYS 201	* Physics for Engr & Sci I	3
		11			11			11

SOPHOMORE YEAR								
Fall Quarter		Hr	Winter Quarter		Hr	Spring Quarter		Hr
ENGR 220	Statics and Mechs of Materials	3	ENGR 221	* Electrical Engr & Circuits I	3	ENGR 222	* Thermodynamics	3
MATH 243	* Calculus III	3	MATH 244	* Calculus IV	3	MATH 245	* Differential Equations	3
MEMT 201	* Engineering Materials	2	NSE 202	* Intro. to Nanosystems Engr	3	NSE 300	* Intro. to Programming for Engr &	3
PHYS 202	* Physics for Engr & Sci II	3	ENGL 102	Freshman Composition II	3	History Elective		3
		11			12			12

JUNIOR YEAR								
Fall Quarter		Hr	Winter Quarter		Hr	Spring Quarter		Hr
CHEM 250	* Organic Chemistry	2	CHEM 251	* Organic Chemistry	2	MSE 405	Nanotechnology Principles	3
MSE 401	* Fund. Microfabrication Processes	3	CHEM 253	* Organic Chemistry Lab	1	MSE 406	* Micro/Nano Measurements	3
ELEN 334	* Solid State Electronics	3	MSE 402	* MEMS and NEMS	3	NSE 302	* Nanomanufacturing	2
BISC 130	Biological Principles	3	MSE 404	* Micro/Nanomaterials	3	NSE 490	* Nanosystems Modeling	3
			Directed Elective \diamond		3			
		11			12			11

SENIOR YEAR								
Fall Quarter		Hr	Winter Quarter		Hr	Spring Quarter		Hr
NSE 406	* Senior Design I	1	NSE 407	* Senior Design II	1	NSE 408	* Senior Design III	1
NSE 410	* Nanosystems & Devices	3	MSE 407	* Advanced Microfab. w/CAD	3	MSE 457	* Spec. Topics: Micro Sys. Engr.	3
ENGL 303	Technical Writing	3	Social Science**		3	Fine Art Appreciation		3
MEEN 382	Basic Measurements	2	Directed Elective \diamond		3	Social Science**		3
PHYS 412	* Solid State Physics	3						
		12			10			10

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