

Instrumentation and Control Systems Engineering Technology  
Louisiana Tech University  
Curriculum as of August 2023

Name \_\_\_\_\_

Date \_\_\_\_\_

CWID \_\_\_\_\_

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

COURSE		PREREQUISITE	SCH	QTR	GRADE
ICET	301	ELET 270, MATH 220	3	F	R
	302	ICET 301, MATH 224	3	W	R
	303	ICET 302	3	Sp	R
	370	ELET 270	3	F	R
	475	Permission of instructor, ICET 301 <sup>o</sup>	1	F	R
	476	ICET 475	1	W	R
	477	ICET 476	1	Sp	R
ELET	270	ENGT 221	3	Sp	R
	280	ENGT 221	3	Sp	R
	360	ELET 280	3	W	R
	361	ELET 360 <sup>o</sup>	1	Sp	R
ENGT	120	MATH 101 <sup>o</sup>	2	F	R
	121	ENGT 120	2	W	R
	122	ENGT 121, MATH 112	2	Sp	R
	220	ENGT 122, MATH 112	3	F	R
	221	ENGT 120, MATH 112	3	W	R
	222	ENGT 121, MATH 112	3	Sp	R
	250	ENGT 120, MATH 112	3	W	R
	320	ELET 270, ENGT 222	3	F	R
	321	ELET 270, ENGT 220	3	W	R
	322	ELET 270, ENGT 220	3	Sp	R
	472	Senior Standing	1	W	R
	INEN	300		2	
416		INEN 300	3		R
BISC	101		3		
CHEM	120		3		
	122	CHEM 120 <sup>o</sup>	1		
COMM	101		3		<input type="checkbox"/>
ENGL	101		3		
	102	ENGL 101	3		
	303	ENGL 102	3		
FYE	100		1		
MATH	101	See catalog	3		*
	112	See catalog	3		*
	220	MATH 100 or 101, 112	3		*
	224	MATH 220	4		R
PHYS	209	MATH 112	3		
	210	PHYS 209	3		
	261	MATH 112	1		
	262	PHYS 261	1		
<b>ELECTIVES</b>					
Fine Arts Appreciation			3		
Humanities Elective			3		
Social Science Elective			3		
Social Science Elective			3		
Directed Elective <sub>1</sub>			3		
Directed Elective <sub>1</sub>			3		
Directed Elective <sub>1</sub>			3		
Directed Elective <sub>1</sub>			1		
<b>TOTAL SEMESTER HOURS</b>			<b>121</b>		

SUBSTITUTIONS <sub>2</sub>		
COURSE	SCH	GRADE
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

ADDITIONAL COURSES		
COURSE	SCH	GRADE
1		
2		
3		
4		
5		

GPA <sub>3</sub>
Rubric GPA

NOTES
* requires grade of "C" or higher
<sup>o</sup> credit or registration in
R course in rubric
<input type="checkbox"/> must be taken 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: ELET, ENGT, ICET, Directed Electives

ADDITIONAL COMMENTS

Advisor Signature

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

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FRESHMAN YEAR								
Fall Quarter		Hr	Winter Quarter		Hr	Spring Quarter		Hr
CHEM 120	Intro to Inorganic Chemistry	3	CHEM 122	Chemistry Lab	1	<b>ENGT 122</b>	Appld Engr Problem Solving III	2
<b>ENGT 120</b>	Appld Engr Problem Solving I	2	COMM 101 □	Principles of Comm Studies	3	MATH 220 *	Applied Calculus	3
FYE 100	First Year Experience	1	ENGL 101	Freshmen Composition I	3	PHYS 209	General Physics I	3
MATH 101 *	College Algebra	3	<b>ENGT 121</b>	Appld Engr Problem Solving II	2	PHYS 261	General Physics Lab	1
			MATH 112 *	Trigonometry	3			
		9			12			9
SOPHOMORE YEAR								
Fall Quarter		Hr	Winter Quarter		Hr	Spring Quarter		Hr
ENGL 102	Freshman Composition II	3	<b>ENGT 221</b>	Applied Engineering Circuits	3	<b>ELET 270</b>	Instrumentation	3
<b>ENGT 220</b>	Applied Engineering Mechanics	3	<b>ENGT 250</b>	Computer-Aided Engineering	3	<b>ELET 280</b>	Elec Power I - Indus Power Distr	3
<b>MATH 224</b>	Applied Calculus for ICET	4	PHYS 210	General Physics II	3	<b>ENGT 222</b>	Applied Thermodynamics	3
			PHYS 262	General Physics Lab	1			
		10			10			9
JUNIOR YEAR								
Fall Quarter		Hr	Winter Quarter		Hr	Spring Quarter		Hr
<b>ENGT 320</b>	Applied Thermal Systems	3	<b>ELET 360</b>	Elec Pwr II - Elec-Mech Pwr Conv	3	<b>ELET 361</b>	Electro-Mech Power Conv Lab	1
<b>ICET 301</b>	Control Systems I	3	<b>ENGT 321</b>	Applied Fluid Systems	3	<b>ENGT 322</b>	Applied Manufacturing Systems	3
<b>ICET 370</b>	Digital Comm and Networks	3	<b>ICET 302</b>	Control Systems II	3	<b>ICET 303</b>	Control Systems III	3
			Social Sci**		3	INEN 300	Engineering Economics	2
		9			12			9
SENIOR YEAR								
Fall Quarter		Hr	Winter Quarter		Hr	Spring Quarter		Hr
ENGL 303	Technical Writing	3	BISC 101	Fundamentals of Biology I	3	<b>ICET 477</b>	Capstone Design III	1
ENGT 472	Professionalism and Ethics for ET	1	<b>ICET 476</b>	Capstone Design II	1	Humanity †		3
<b>ICET 475</b>	Capstone Design I	1	INEN 416	Intro to Project Management	3	Fine Arts Apprec. ~		3
Social Sci °		3	Directed Elective ◇		3	Directed Elective ◇		3
Directed Elective ◇		3	Directed Elective ◇		1			
		11			11			10

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

\* Requires grade of "C" or higher.

□ Must be completed within first year of enrollment

◇ Directed Electives chosen by student in consultation with faculty advisor and approved by the Instrumentation and Control Systems Engineer Program Chair.

~ Fine Arts Appreciation can be selected from MUGN 290, THTR 290, ART 290, or KINE 280.

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

† Humanities Elective can be selected from Classical Studies, Communications, Foreign Language, History, Literature, Philosophy, Religious Studies, and interdisciplinary. Common choices are ENGL 210, ENGL 211, ENGL 212, COMM 378, or any HIST.