

# Instrumentation and Control Systems Engineering Technology Curriculum 2022

## Louisiana Tech University

Name \_\_\_\_\_

Date \_\_\_\_\_

CWID \_\_\_\_\_

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

COURSE	PREREQUISITE	SCH	QTR	GRADE	
ICET 301	ELET 270 MATH 220	3		R	
	ICET 301 MATH 224	3		R	
	ICET 302	3		R	
	ELET 270	3		R	
	Permission of Program Chair & ICET 301○	1		R	
	ICET 475	1		R	
	ICET 476	1		R	
ELET 270	ENGT 221	3		R	
	ENGT 221	3		R	
	ELET 280	3		R	
	ELET 360○	1		R	
ENGT 120	MATH 101○	2		R	
	ENGT 120	2		R	
	ENGT 121 MATH 112○	2		R	
	ENGT 122 MATH 112	3		R	
	ENGT 120 MATH 112	3		R	
	ENGT 121 MATH 112	3		R	
	ENGT 120 MATH 112	3		R	
	ENGT 222 ICET 301○	3		R	
	ENGT 220 ICET 301○	3		R	
	ENGT 220 ICET 301○	3		R	
472 Senior Standing	1		R		
INEN 300	MATH 220, MATH 242, or MEMT 206	2		R	
	MATH 220 or MATH 242	3		R	
BISC 101		3			
CHEM 120		3			
	CHEM 120○	1			
COMM 101	FYE 100○	3		<input type="checkbox"/>	
ENGL 101		3			
	ENGL 101	3			
	ENGL 102	3			
MATH 101	See Catalog	3		*	
	See Catalog	3		*	
	MATH 100 or 101, 112	3		*	
	MATH 220	4		R	
PHYS 209	MATH 112	3			
	PHYS 209	3			
	MATH 112	1			
	PHYS 261	1			
<b>ELECTIVES/ GER</b>					
Fine Arts Appr. (ART 290, KINE 280, MUGN 290, or THTR 290)		3			
Humanities Elective		3			
Social Science Elective		3			
Social Science Elective		3			
Directed Electives (10 hours required)		10			
.....					
.....					
<b>TOTAL SEMESTER HOURS</b>		<b>120</b>			

SUBSTITUTIONS		
COURSE	SCH	GRADE
1		
2		
3		
4		
5		

ADDITIONAL COURSES		
COURSE	SCH	GRADE
1		
2		
3		
4		
5		

GPA
Rubric GPA _____

NOTES
* requires grade of "C" or higher
○ 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: ICET
<b>Total Hours: 120</b>

ADDITIONAL COMMENTS

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

Instrumentation and Control Systems Engineering Technology  
Louisiana Tech University

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

\* Requires grade of "C" or higher.

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

□ 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.

\*\*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.

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