

Instrumentation and Control Systems Engineering Technology  
Louisiana Tech University  
Curriculum as of 2017

Name \_\_\_\_\_

Date \_\_\_\_\_

CWID \_\_\_\_\_

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

COURSE	PREREQUISITE	SCH	QTR	GRADE
ICET 422	ELET 270 MATH 220	3		R
423	ICET 422○	1		R
460	ICET 422○	3		R
461	ICET 460○	1		R
470	MATH 224 ICET 460	3		R
471	ICET 470○	1		R
475	ICET 422○	1		R
476	ICET 475	1		R
477	ICET 476	1		R
486	ENGT 313,353 ICET 422	2		R
ELET 260	ENGT 221	3		R
270	ELET 260	3		R
271	ELET 270○	1		R
280	ENGT 221	3		R
360	ELET 280	3		R
361	ELET 360○	1		R
ENGT 120	MATH 101○	2		R
121	ENGT 120	2		R
122	ENGT 121 MATH 112	2		R
221	ENGT 120 MATH 112	3		R
222	ENGT 121 PHYS 209	3		R
226	ENGT 221○	1		R
313	MEMT 206 MATH 220	3		R
353	ENGT 121,122 MATH 220	3		R
363	MEMT 206 MATH 220 ENGT 122	3		R
472	Senior Standing	1		R
MEMT 206	PHYS 209	3		R
INEN 300		2		R
416	INEN 300	3		R
BISC 101		3		
CHEM 120	MATH 101○	3		
122	CHEM 120○	1		
COMM 101		3		□
377		3		
ENGL 101		3		
102	ENGL 101	3		
303	ENGL 102	3		
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 Appr. (ART 290, KINE 280, MUGN 290, or THTR 290)		3		
ECON 201,202, OR 215		3		
ENGL 210,211, or 212 or HIST		3		
Social Science		3		
Directed Elective		3		
<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	_____
MATH 241-244 GPA	_____

NOTES	
*	requires grade of "C" or higher
○	credit or registration in
R	course in rubric
□	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

ADDITIONAL COMMENTS	

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

Instrumentation and Control Systems Engineering Technology  
Louisiana Tech University

FRESHMAN YEAR								
Fall Quarter		Hr	Winter Quarter		Hr	Spring Quarter		Hr
<b>ENGT 120</b>	Engr Tech Problem Solving I	2	<b>ENGT 121</b>	Engr Tech Problem Solving II	2	<b>ENGT 122</b>	Engr Tech Problem Solving III	2
<i>MATH 101</i> *	College Algebra	3	<i>MATH 112</i> *	Trigonometry	3	PHYS 209	General Physics I	3
<i>CHEM 120</i>	Intro to Inorganic Chemistry	3	COMM 101 □	Principles of Comm Studies	3	PHYS 261	General Physics Lab	1
<i>CHEM 122</i>	Inorganic Chemistry Lab	1	ENGL 101	Freshman Composition	3	<i>MATH 220</i> *	Applied Calculus	3
<i>FYE 100</i>	First Year Experience	1						
		10			11			9
SOPHOMORE YEAR								
Fall Quarter		Hr	Winter Quarter		Hr	Spring Quarter		Hr
<b>ENGT 221</b>	Circuits	3	MEMT 206	Statics and Strength of Materials	3	<b>ENGT 222</b>	Thermodynamics for Engr Tech	3
<b>ENGT 226</b>	Circuits Lab	1	<b>ELET 260</b>	Electronics	3	<b>ELET 270</b>	Instrumentation	3
<b>MATH 224</b>	Applied Calculus for ICET	4	PHYS 210	General Physics II	3	<b>ELET 271</b>	Instrumentation Lab	1
ENGL 102	Freshman Composition II	3	PHYS 262	General Physics Lab	1	<b>ELET 280</b>	Electrical Power	3
		11			10			10
JUNIOR YEAR								
Fall Quarter		Hr	Winter Quarter		Hr	Spring Quarter		Hr
<b>ENGT 363</b>	Dynamics and Mechanisms	3	<b>ENGT 313</b>	Fluid Mechanics for Engr Tech	3	<b>ENGT 353</b>	Heat Transfer for Engr Tech	3
<b>ICET 422</b>	Control Systems I	3	<b>ELET 360</b>	Electrical Power II	3	<b>ICET 460</b>	Control Systems II	3
<b>ICET 423</b>	Control Systems I Lab	1	<b>ELET 361</b>	Electro-Mech Power Conv.	1	<b>ICET 461</b>	Control Systems II Lab	1
ECON 201,202, or 215		3	INEN 300	Engineering Economics	2		Fine Arts Appreciation	3
		10			9			10
SENIOR YEAR								
Fall Quarter		Hr	Winter Quarter		Hr	Spring Quarter		Hr
<b>ICET 475</b>	Capstone Design I	1	<b>ICET 476</b>	Capstone Design II	1	<b>ICET 477</b>	Capstone Design III	1
<b>ENGT 472</b>	Seminar	1	<b>ICET 470</b>	Control Systems III	3	BISC 101	Fundamentals of Biology I	3
<b>ICET 486</b>	Process Measurements Lab	2	<b>ICET 471</b>	Control Systems III Lab	1		Directed Elective◇	3
ENGL 303	Technical Writing	3	COMM 377	Professional Speaking	3		ENGL 210,211, or 212 Literature	3
Social Science**		3	INEN 416	Project Management	3			
		10			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.