

Instrumentation Technology

Associate of Applied Science in Instrumentation Technology–IR2

FIRST SEMESTER

— INTC	1312	Instrumentation & Safety	SCH	3
— INTC	1456	Instrumentation Calibration		4
— CETT	1302	Electricity Principles		
		or		
— CETT	1325	Digital Fundamentals		3
— ITSC	1309	Integrated Software Applications I		3
— TECM	1341	Technical Algebra		3
				16

SECOND SEMESTER

— INTC	1441	Principles of Automatic Control		4
— CPMT	1303	Introduction to Computer Technology		
		or		
— CPMT	1411	Introduction to Computer Maintenance		3/4
— TECM	1349	Technical Math Applications		3
— ENGL	1301	English Composition I		
		or		
— BUSI	1304	Business Report Writing & Correspondence		3
— ----	----	Humanities/Fine Art		3
				16/17

THIRD SEMESTER

— INTC	1343	Application of Industrial Automatic Control		3
— ----	----	Elective*		3/4
— SPCH	----	Oral Communications		3
— INTC	2436	Distributed Control & Programmable Logic		4
— ----	----	Elective*		3/4
				16/18

FOURTH SEMESTER

— ----	----	Natural Science/Mathematics		4
— ----	----	Social/Behavioral Science		3
— •INTC	2450	Fieldbus Process Control Systems		4
— ----	----	Elective*		3/4
				14/15
				62/66

Total Semester Credit Hours for Degree

* Electives to be chosen from INTC 1425, 2405, ELPT 2380, or others as approved by Lead Instructor.

Certificate of Completion in Instrumentation Technology–IR1

FIRST SEMESTER

— INTC	1312	Instrumentation & Safety	SCH	3
— INTC	1456	Instrumentation Calibration		4
— TECM	1341	Technical Algebra		3
— CETT	1302	Electrical Principles		
		or		
— CETT	1325	Digital Principles		3
				13

SECOND SEMESTER

— CPMT	1303	Introduction to Computer Technology		
		or		
— CPMT	1411	Introduction to Computer Maintenance		3/4
— INTC	1441	Principles of Automatic Control		4
— INTC	1343	Application of Industrial Automatic Control		3
— TECM	1349	Technical Math Applications		3
				13/14

THIRD SEMESTER

— INTC	2436	Distributed Control & Programmable Logic		4
— •INTC	2450	Fieldbus Process Control Systems		4
				8
		Total Semester Credit Hours for Certificate		34/35

Certificate of Completion in Industrial Instrumentation–IF1

FIRST SEMESTER

— INTC	1305	Introduction to Instrumentation	SCH	3
— INTC	1425	Instrument Hardware Installation I		4
				7

SECOND SEMESTER

— INTC	2405	Instrument Hardware Installation II		4
— CETT	1307	Fundamentals of Electronics		3
— INTC	1401	Principles of Industrial Measurements I		4
				11

THIRD SEMESTER

— •INTC	2410	Principles of Industrial Measurements II		4
				4
		Total Semester Credit Hours for Certificate		22

Certificate of Completion in Analytical Instrumentation–ATI1

FIRST SEMESTER

— TECM	1341	Technical Algebra	SCH	3
— INTC	1312	Instrumentation & Safety		3
— INTC	1456	Instrumentation Calibration		4
— EPCT	1349	Environmental Regulation, Interpretation, & Applications		3
— CTEC	1401	Applied Petrochemical Technology		4
				17

SECOND SEMESTER

— INTC	1348	Analytical Instrumentation		3
— INTC	1441	Principles of Automatic Control		4
— INTC	2471	Physical Properties Analyzers		4
				11

THIRD SEMESTER

— INTC	2472	Sample Systems		4
— •INTC	2445	Advanced Analyzers		4
				8
		Total Semester Credit Hours for Certificate		36

• Students should plan to take this capstone course in their last semester and should speak with their advisor prior to registering for the final semester. Core curriculum courses are shown in bold type. Field of Study (FOS) courses are underlined. Core and Field of Study courses are shown in bold and underline type.

◆ Students completing a high school Tech Prep Program may receive credit for indicated courses.