

Instrumentation & Control Technology

Associate in Applied Science Degree Plan 2015-2016

Prescribed Technical Program Total	58
General Education Total	<u> 16</u>
Total Degree Credits	74

Freshman Fall Semester						
Prescribed Technical Program Requirements						
ELEC	100/100L	Direct Current Analysis/Lab	5			
ELEC	118/118L	Solid State Devices I/Lab	5			
ELEC	114/114L	Digital Electronics I/Lab	4			
		Total Credits	14			

Freshman Spring Semester					
Prescri	bed Technica	al Program Requirements			
ELEC	130/130L	Active Devices/Lab	5		
ELEC	120/120L	AC Analysis/Lab	5		
ELEC	115/115L	Digital Electronics II/Lab	4		
		Total Credits	14		

Sophomore Fall Semester					
Prescr	ibed Technica	l Program Requirements			
ICTL	205/205L	Mechanical Practices/Lab	5		
ICTL	215/215L	Instrument Drawings & Documentation/Lab	5		
ICTL	225/225L	Input & Output Devices/Lab	5		
		Total Credits	15		

Sophomore Spring Semester					
Prescri	bed Technical	Program Requirements	_		
ICTL	235/235L	Motors & Controllers/Lab	5		
ICTL	245/245L	Controls/Lab	5		
ICTL	255/255L	Automation Overview/Lab	5		
		Total Credit.	s 15		

General Education Requirements						
Arts & I	Humanities/	Social & Behavioral Science				
1.			3			
Busines	s, Math, Sci	ence & Technology (Two areas of study required.)				
CIS	164	Networking Fundamentals I (Required)	4			
MATH	137	Applied Algebra or higher (Required)	3			
Commu	nications I					
ENGL	110	College Composition I (Required)	3			
Commu	nications II	(Select one course.)				
ENGL	120	College Composition II				
ENGL	125	Introduction to Professional Writing	3			
COMM	110	Fundamentals of Public Speaking				
		Total Credits	16			

Associate in Applied Science (AAS)	Advisor:
	Office:
	Phone:
	Email:
Degree Checklist	
Credits	
Earned a minimum of 3 credits in ENGL 110 Earned a minimum of 3 credits in ENGL 120, 125 or COMM 110 Earned a minimum of 3 credits in Arts & Humanities/Social & Behavioral Science Earned a minimum of 6 credits in Business, Math, Science & Technology Earned prescribed technical program requirements Earned a minimum of 60 total credits -Academic Skills Courses (ASC) do not apply toward graduation.	Earned a minimum of 15 institutional credit (BSC only) Earned a minimum 2.00 institutional GPA (BSC only) Earned a minimum 2.00 cumulative GPA (BSC + Transfer) Earned a minimum 2.00 GPA in a prescribed technical program Cleared all college obligations Declared program of study is Degree-seeking Filed an Application for Degree
	Legend (*) Course not approved as GERTA
General Education Requirements	
Category I: COMMUNICATIONS	Completed Needed
Communications I	
(3 Credits) - ENGL 110	
Gr. Cr. 3 ENGL 110 College Composition I	
Transfer Course	
Communications II	
(3 Credits) -ENGL 120, 125, COMM 110 (Select one)	
Gr. Cr. 3 ENGL 120 College Composition II 3 ENGL 125 Introduction to Professional Writing 3 COMM 110 Fundamentals of Public Speaking Transfer Course	
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gory II	: ARTS & H	UMANITES/SOCIAL & BEHAV	IORAL SCIEN	CES		Со	mpleted	Needed
edits)								
Cr.			Gr. Cr.			Gr. Cr.		
3	ART 110	Introduction to the Visual Art	3	HIST 101	Western Civilization I	3	POLS 115	American Government
3	ART 122	Two Dimensional Design	3	HIST 102	Western Civilization II	3	POLS 116	State & Local Government
3	ART 124	Three Dimensional Design	3	HIST 103	United States to 1877	3	POLS 220	International Politics
3	ART 130	Drawing I	3	HIST 104	United States since 1877	3	PSYC 111	Introduction to Psychology
3	ART 210	Art History I	3	HIST 220	North Dakota History	3	* PSYC 211	Introduction to Behavior Modifica
3	ART 211	Art History II	3	HIST 222	History of the Western Frontier	3	PSYC 250	Developmental Psychology
3	ART 220	Painting I	3	HIST 224	American Studies I	3 ;	F PSYC 261	Psychology of Adjustment
3	ART 221	Painting II	3	HIST 225	American Studies II	3	PSYC 270	Abnormal Psychology
3	ART 230	Drawing II	1-3	* HIST 243	Historical Investigations	3	RELS 120	Religion in America
3	ART 250	Ceramics I	3	HUMS 210	Integrated Cultural Studies	3	RELS 201	Life & Letters of Paul
3	ART 251	Ceramics II	1-4	HUMS 211	Integrated Cultural Excursion	3	RELS 203	World Religions
2	ART 265	Sculpture I	2	HUMS 212	Integrated Cultural Enrichment	3	RELS 220	Old Testament
2	ART 266	Sculpture II	3	MUSC 100	Music Appreciation	3	RELS 230	New Testament
3	CJ 201	Introduction to Criminal Justice	1	MUSC 117	Concert Choir	3	SOC 110	Introduction to Sociology
3	COMM 211	Oral Interpretation	1	MUSC 118	Chamber Choir	3	SOC 115	Social Problems
3 *	COMM 212	Interpersonal Communications	1	MUSC 121	String Ensemble	3	SOC 220	Family
3	ECON 105	Elements of Economics	1	MUSC 132	Wind Ensemble	3	SOC 221	Minority Relations
3	ECON 201	Principles of Microeconomics	1	MUSC 133	Woodwind Ensemble I	3	SOC 235	Cultural Diversity
3	ECON 202	Principles of Macroeconomics	1	MUSC 134	Woodwind Ensemble II	3	SOC 251	Gerontology
3	ENGL 211	Introduction to Creative Writing	1	MUSC 135	Brass Ensemble I	3	SOC 252	Criminology
3	ENGL 221	Introduction to Drama	1	MUSC 136	Brass Ensemble II	3	SOC 275	American Indian Studies
3	ENGL 222	Introduction to Poetry	1	MUSC 137	Jazz Ensemble	4	SPAN 101	First Year Spanish I
3	ENGL 233	Fantasy & Science Fiction	1	* MUSC 138	Percussion Ensemble	4	SPAN 102	First Year Spanish II
3	ENGL 236	Women & Literature	1	MUSC 145	Applied Music	4	SPAN 201	Second Year Spanish I
3	ENGL 238	Children's Literature	₁	MUSC 146	Applied Music - Major	4	SPAN 202	Second Year Spanish II
3	ENGL 251	British Literature I	3	PHIL 101	Introduction to Philosophy	3	SWK 256	Development of Social Welfare
3	ENGL 252	British Literature II	3	PHIL 210	Ethics	3	THEA 110	Introduction to Theatre Arts
3	ENGL 261	American Literature I	3	PHIL 220	Introduction to Logic	3	THEA 161	Acting I
3	ENGL 262	American Literature II	3	PHIL 250	Philosophy in Cinema	3	THEA 261	Acting II
3	ENGL 278	Alternative Literature	3	* PHIL 253	Environmental Ethics			-

	cation Requirements C				
	NESS, MATH, SCIENCE & TECHNO			Completed	Needed
Credits) Must be	satisfied with courses from two areas of s	tudy. Area of study is based on c	course prefix.		
r. Cr.		Gr. Cr.		Gr. Cr.	
3 * ACCT 2	9	3/1 CHEM 110	Survey of Chemistry/Lab	3 MATH 146	Applied Calculus I
3 * ACCT 2	201 Elements of Accounting II	3/1 CHEM 112	Introduction to Forensic Science/Lab	4 MATH 165	Calculus I
3/1 ASTR 1	L50 Meteorology/Lab	3/1 CHEM 114	Chemistry in Art/Lab	4 MATH 166	Calculus II
3 * BADM	202 Principles of Management	4/1 CHEM 115	Introductory Chemistry/Lab	3 * MATH 208	Discrete Mathematics
3 * BADM	210 Advertising I	4/1 CHEM 116	Intro to Organic & Biochemistry/Lab	3 MATH 210	Elementary Statistics
3 * BADM	240 Sales	4/1 CHEM 121	General Chemistry I/Lab	4 * MATH 277	Math for Elementary Teachers I
3 * BADM	281 Organizational Behavior	4/1 CHEM 122	General Chemistry II/Lab	3/1 MICR 202	Introductory Microbiology/Lab
3 * BADM	282 Human Resource Management	4 * CIS 164	Networking Fundamentals	3 * NUTR 240	Principles of Nutrition
1 * BIOL 10	02 Introduction to Aquarium Keeping	3 CSCI 101	Introduction to Computers	3/1 PHYS 100	Concepts of Physics/Lab
3 BIOL 10	09 Living World	3 CSCI 122	Beginning Visual Basic	3/1 PHYS 110	Introduction to Astronomy/Lab
3/1 BIOL 1:	11 Concepts of Biology/Lab	4 CSCI 160	Computer Science I	3/1 PHYS 211	College Physics I/Lab
3/1 BIOL 1:	15 Human Structure & Function/Lab	4 CSCI 161	Computer Science II	3/1 PHYS 212	College Physics II/Lab
3 BIOL 12	24 Environmental Science	3/1 GEOG 121	Physical Geography/Lab	4/1 PHYS 251	University Physics I/Lab
3/1 BIOL 12	26 Human Biology/Lab	3/1 GEOL 102	Historical Geology/Lab	4/1 PHYS 252	University Physics II/Lab
3/1 BIOL 15	50 General Biology I/Lab	3/1 GEOL 105	Physical Geology/Lab	2/1 PLSC 110	World Food Crops/Lab
3/1 BIOL 15	51 General Biology II/Lab	3 GIS 105	Fundamentals of GIS	3/1 SCNC 101	Physical Science I/Lab
3/1 BIOL 22	20 Anatomy & Physiology I/Lab	3 * GIS 107	GIS Applications		Biology & Chemistry
3/1 BIOL 22	21 Anatomy & Physiology II/Lab	4 MATH 103	College Algebra	3/1 SCNC 102	Physical Science II/Lab
3/1 BIOL 25	50 Survey-Tropical Biology/Lab	3 MATH 104	Finite Math		Physics & Geology
3/1 BIOL 25	51 Community Ecology/Lab	2 MATH 105	Trigonometry	3/1 SCNC 103	Physical Science III/Lab
3/1 BOT 17	70 Plant Form & Diversity/Lab	4 MATH 107	Pre-Calculus		Astronomy & Meteorology
3 * BUSN 1	120 Fundamentals of Business	3 * MATH 137	Applied Algebra	2/1 * SOIL 210	Introduction to Soil Science/Lab
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nsfer Courses		Transfer Courses		Transfer Courses	
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cademic Sk	kills Courses (ASC)				
e followina Academ	nic Skills Courses (ASC), as well as Math 10	2. are pre-college courses indica	te the need for college preparation work	k before enrollment in college	level courses. These courses will
	earned credit and will not count toward th		12 mg mg go, domege proparation work		
r. Cr.	came a create and win not count toward tr	Gr. Cr.			
2 ASC 08	32 Effective Reading	2 ASC 92	Algebra Prep II		
	· ·	2 ASC 92 2 ASC 93	-		
3 ASC 08		2 ASC 93	Algebra Prep III		

ASC 91

Algebra Prep I