

Instrumentation & Control Technology

Associate in Applied Science Advising Worksheet* 2019-2020

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	Seme	ster
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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

Soph	Sophomore Fall Semester						
Prescribed Technical 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

Prescribed Technical Program Requirements

ICTL	235/235L	Motors & Controllers/Lab	5
ICTL	245/245L	Controls/Lab	5
ICTL	255/255L	Automation Overview/Lab	5
		Total Credits	15

General Education Requirements

Arts & Humanities/Social & Behavioral Science

1.		
Busines	s, Math, Sci	ence & Technology (Two areas of study required.)
CIS	164	Networking Fundamentals I (Required)
MATH	137	Applied Algebra or higher (Required)
Сотти	nications I	
ENGL	110	College Composition I (Required)
Сотти	nications II	(Select one course.)
ENGL	120	College Composition II
ENGL	125	Introduction to Professional Writing
сомм	110	Fundamentals of Public Speaking
		Total Credits

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Associate in Applied Science (AAS) 2019-2020 Catalog	Advisor:
Degree Checklist	
Credits Earned a minimum of 3 credits in ENGL 110 Earned a minimum of 3 credits in ENGL 120, ENGL 125 or COMM 110 ¹ Earned a minimum of 3 credits in Arts & Humanities/Social & Behavioral Sciences ¹ Earned a minimum of 6 credits in Business, Math, Science & Technology ² Completed prescribed technical program requirements Earned a minimum of 60 credits -Academic Skills Courses (ASC) do not count toward graduation ¹ Programs may have specific General Education requirements; refer to your program degree plan. ² Must be from any two areas of study. For example, a Biology course and a Math course, but not two Biology courses or two Math courses.	Earned at least 15 semester hours of institutional credit from BSC Minimum of 2.00 institutional GPA (BSC only) Minimum of 2.00 cumulative GPA (BSC + Transfer) Minimum of 2.00 GPA in a prescribed technical program Cleared all college obligations Satisfied all degree seeking admission requirements Filed an Application for Degree in the Academic Records Office immediately following enrollment in final semester Specific programs may require additional degree/program requirements; refer to your program Legend (*) Course not approved as GERTA

General Education Requirements Category I: COMMUNICATIONS

Communic	ations I					
(3 Credits) -	ENGL 110					
Gr. Cr. 3	ENGL 110	College Composition I				
Transfer Cours	e					
Communio	ations II					
		125, COMM 110 (Select one)		 		
		. 125, COMM 110 (Select one)	 			
(3 Credits) - Gr. Cr.	ENGL 120, ENG ENGL 120	College Composition II				
(3 Credits) -	ENGL 120, ENG		 			

Needed____

Needed_

Completed_

Completed_

Transfer Course

General Education Requirements Continued Category II: ARTS & HUMANITES/SOCIAL & BEHAVIORAL SCIENCES

r. Cr.			Gr.	Cr			Gr. C	~		
3	ANTH 170	Physical Anthropology and Archeology	GI.	3	HIST 101	Western Civilization I		.1. 3	POLS 115	American Government
3	ANTH 170 ANTH 171	, , , , , , , , , , , , , , , , , , , ,		3	HIST 101 HIST 102	Western Civilization I				State and Local Government
3		Introduction to Cultural Anthropology						3	POLS 116	
3	ART 110	Introduction to the Visual Arts		3	HIST 103	United States to 1877		3	POLS 220	International Politics
3	ART 122	Two-Dimensional Design		3	HIST 104	United States Since 1877		3	PSYC 100	Human Relations In Organizations
3	ART 124	Three-Dimensional Design		3	HIST 211	World Civilizations to 1500		3	PSYC 111	Introduction to Psychology
3	ART 130	Drawing I		3	HIST 212	World Civilizations since 1500		3 *	1510211	Introduction to Behavior Modificat
3	ART 210	Art History I		3	HIST 220	North Dakota History		3	PSYC 250	Developmental Psychology
3	ART 211	Art History II		3	HIST 222	History of the Western Frontier		3*	F31C 201	Psychology of Adjustment
3	ART 220	Painting I		3	HIST 224	American Studies I		3	PSYC 270	Abnormal Psychology
3	ART 221	Painting II		3	HIST 225	American Studies II		3	RELS 120	Religion in America
3	ART 230	Drawing II		1-3	* HIST 243	Historical Investigations		3	RELS 201	Life and Letters of Paul
3	ART 250	Ceramics I		3	HUMS 210	Integrated Cultural Studies		3	RELS 203	World Religions
3	ART 251	Ceramics II		1-4	HUMS 211	Integrated Cultural Excursion		3	RELS 220	Old Testament
2	ART 265	Sculpture I		2	HUMS 212	Integrated Cultural Enrichment		3	RELS 230	New Testament
2	ART 266	Sculpture II		3	MUSC 100	Music Appreciation		3	SOC 110	Introduction to Sociology
3 *	CIS 280	Cyber Ethics		1	MUSC 117	Concert Choir		3	SOC 115	Social Problems
3	CJ 201	Introduction to Criminal Justice		1	MUSC 118	Chamber Choir		3	SOC 220	Family
3	COMM 112	Understanding Media and Social Change		1	MUSC 121	String Ensemble		3	SOC 221	Minority Relations
3	COMM 211	Oral Interpretation		1	MUSC 132	Wind Ensemble		3	SOC 235	Cultural Diversity
3	COMM 212	Interpersonal Communications		1	MUSC 133	Woodwind Ensemble I		3	SOC 251	Gerontology
3	ECON 105	Elements of Economics		1	MUSC 134	Woodwind Ensemble II		3	SOC 252	Criminology
3	ECON 201	Principles of Microeconomics		1	MUSC 135	Brass Ensemble I		3	SOC 275	American Indian Studies
3	ECON 202	Principles of Macroeconomics		1	MUSC 136	Brass Ensemble II	·	4	SPAN 101	First Year Spanish I
3	ENGL 211	Introduction to Creative Writing		1	MUSC 137	Jazz Ensemble		4	SPAN 102	First Year Spanish II
3	ENGL 221	Introduction to Drama		1	* MUSC 138	Percussion Ensemble	·	4	SPAN 201	Second Year Spanish I
3	ENGL 222	Introduction to Poetry		1	MUSC 145	Applied Music		4	SPAN 202	Second Year Spanish II
3	ENGL 233	Fantasy and Science Fiction		1	MUSC 146	Applied Music - Major		3	SWK 256	Development of Social Welfare
3	ENGL 236	Women and Literature		3	PHIL 101	Introduction to Philosophy		3	THEA 110	Introduction to Theatre Arts
3	ENGL 238	Children's Literature		3	PHIL 210	Ethics		3	THEA 161	Acting I
3	ENGL 251	British Literature I		3	PHIL 220	Introduction to Logic		3	THEA 180	Dramatic Literature and Style I
3	ENGL 252	British Literature II		3	PHIL 250	Philosophy in Cinema		3	THEA 181	Dramatic Literature and Style II
3	ENGL 261	American Literature I		3	PHIL 253	Environmental Ethics		3	THEA 261	Acting II
3	ENGL 262	American Literature II								
<u> </u>	ENGL 278	Alternative Literature								
- 3	GEOG 161	World Regional Geography								

Transfer Courses

Transfer Courses

General Education Requirements Continued

ategory	III: BU	JSINESS,	MATH, SCIENCE & TECHNOLO	SY			C	ompleted	Needed
i Credits)	Must	be satisfie	ed with courses from two areas of stud	y. Area of st	udy is based on	course prefix.			
Gr. Cr.				Gr. Cr.			Gr. Cr.		
3	* AC0	CT 200	Elements of Accounting I	3/1	CHEM 110	Survey of Chemistry/Lab	3	MATH 146	Applied Calculus I
3	* AC0	CT 201	Elements of Accounting II	3/1	CHEM 112	Introduction to Forensic Science/Lab	4	MATH 165	Calculus I
3/1	AST	TR 150	Meteorology/Lab	3/1	CHEM 114	Chemistry in Art/Lab	4	MATH 166	Calculus II
3	* BAI	DM 202	Principles of Management	4/1	CHEM 115	Introductory Chemistry/Lab	3	* MATH 208	Discrete Mathematics
3	* BAI	DM 210	Advertising I	4/1	CHEM 116	Intro to Organic and Biochemistry/Lab	3	MATH 210	Elementary Statistics
3	* BAI	DM 240	Sales	4/1	CHEM 121	General Chemistry I/Lab	4	* MATH 277	Mathematics for Elementary Teachers
3	* BAI	DM 281	Organizational Behavior	4/1	CHEM 122	General Chemistry II/Lab	3/1	MICR 202	Introductory Microbiology/Lab
3	* BAI	DM 282	Human Resource Management	3	* CIS 147	Principles of Information Security	3	* NUTR 240	Principles of Nutrition
1	* BIC	DL 102	Introduction to Aquarium Keeping	4	* CIS 164	Networking Fundamentals I	3/1	PHYS 100	Concepts of Physics/Lab
3	BIC	DL 109	The Living World	3	CSCI 101	Introduction to Computers	3/1	PHYS 110	Introductory Astronomy/Lab
3/1	BIC	OL 111	Concepts of Biology/Lab	3	CSCI 122	Beginning Visual Basic	4/1	PHYS 211	College Physics I/Lab
3/1	BIC	DL 115	Concepts of Anatomy & Physiology/Lab	4	CSCI 160	Computer Science I	4/1	PHYS 212	College Physics II/Lab
3	BIC	DL 124	Environmental Science	4	CSCI 161	Computer Science II	4/1	PHYS 251	University Physics I/Lab
3/1	BIC	DL 125	Introduction to Ecology/Lab	3/1	GEOG 121	Physical Geography/Lab	4/1	PHYS 252	University Physics II/Lab
3/1	BIC	DL 126	Human Biology/Lab	3/1	GEOL 102	Historical Geology/Lab	2/1	PLSC 110	World Food Crops/Lab
3/1	BIC	DL 150	General Biology I/Lab	3/1	GEOL 105	Physical Geology/Lab	3/1	SCNC 101	Physical Science I/Lab
3/1	BIC	DL 151	General Biology II/Lab	3	GIS 105	Fundamentals of GIS			(Biology & Chemistry)
3/1	BIC	DL 170	General Zoology/Lab	3	* GIS 107	GIS Applications	3/1	SCNC 102	Physical Science II/Lab
3/1	BIC	DL 220	Anatomy and Physiology I/Lab	4	MATH 103	College Algebra			(Physics & Geology)
3/1	BIC	DL 221	Anatomy and Physiology II/Lab	3	MATH 104	Finite Mathematics	3/1	SCNC 103	Physical Science III/Lab
3/1	BIC	DL 250	Survey of Tropical Biology/Lab	2	MATH 105	Trigonometry			(Astronomy & Meteorology)
3/1	BO	T 170	Plant Form and Diversity/Lab	4	MATH 107	Pre-Calculus	2/1 *	SOIL 210	Introduction to Soil Science/Lab
3	* BU	SN 120	Fundamentals of Business	3	* MATH 137	Applied Algebra			
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ansfer Cou	rses			Transfer Cou	irses		Transfer Co	urses	

Academic Skills Courses (ASC)

The following Academic Skills Courses (ASC) are pre-college courses that indicate the need for college preparation work before enrollment in college level courses. These courses will not fulfill general education requirements, institutional credit requirements and cannot be included in the semester hours required for an Associate in Applied Science degree.

 Gr.
 Cr.

 2
 ASC 082
 Effective Reading

 2
 ASC 91
 Algebra Prep I

 2
 ASC 92
 Algebra Prep II

 2
 ASC 92
 Algebra Prep II

Gr.

Cr.

2 2

2

3/1

ASC 94 ASC 95 ASC 96 ASC 098 College Writing Prep I College Writing Prep II College Writing Prep III Basic Biology/Lab

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