

Name: _____ Date: _____

Unofficial advising worksheet used for planning purposes only



Industrial Automation Technician
 Associate in Applied Science
 Advising Worksheet* 2022-2023

Prescribed Technical Program Total	52
General Education Total	16
Total Degree Credits	68

Semester I offered fall semesters			Completed
Prescribed Technical Program Requirements			
ESRE	210	Electrical & Safe Work Practices	3
ESRE	216	Mechanical Drive Systems	4
ESRE	213	Hydraulic Fundamentals	3
ESRE	218	Distributed Power Systems	4
Total Credits			14

Semester II offered spring semesters			Completed
Prescribed Technical Program Requirements			
ENRT	224	Automation & Control	3
ENRT	221	Applied Electronics	3
ESRE	226	Analog PLCs	3
ESRE	228	Technician Applications & Troubleshooting	4
Total Credits			13

Semester III			Completed
Prescribed Technical Program Requirements			
ENRT	112	Print Reading	3
ENRT	105	Safety, Health & Environment	3
ENRT	240	Industrial SCADA	3
INAU	210	Automation Systems	3
Total Credits			12

Semester IV			Completed
Prescribed Technical Program Requirements			
INAU	230	Industrial Robotics	3
INAU	220	Machine Vision & Identification	3
INAU	240	Integrated Systems, Design & Setup	3
INAU	245	Integrated Systems, Troubleshooting and Quality Control	4
Total Credits			13

General Education Requirements			Completed
Arts & Humanities/Social & Behavioral Sciences			
1.			3
Business, Math, Science & Technology (Two areas of study)			
1.	MATH 137	Applied Algebra <i>or higher</i> (Required)	3
2.	CIS 164	Networking Fundamentals I (Required)	4
Communications I			
ENGL	110	College Composition I (Required)	3
Communications II (Select one course.)			
ENGL	120	College Composition II (Prerequisite: ENGL 110)	
ENGL	125*	Intro to Professional Writing (Prerequisite: ENGL 110)	3
COMM	110	Fundamentals of Public Speaking	
Total Credits			16

*ENGL 125 recommended

* The advising worksheet is unofficial and to be used for class planning purposes only. Please refer to the official catalog at <http://catalog.bismarckstate.edu> for the complete listing of the degree requirements.

Associate in Applied Science (AAS)

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 & B. 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

Legend
(*) Course not approved as GERTA

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	Intro to Professional Writing
_____	3	COMM 110	Fund. of Public Speaking

Transfer Course

General Education Requirements Continued

Category II: ARTS & HUMANITIES/SOCIAL & BEHAVIORAL SCIENCES

Completed

Needed

(3 Credits)

Gr.	Cr.		Gr.	Cr.		Gr.	Cr.	
___	3	ART 110 Intro to the Visual Art	___	3	HIST 101 Western Civilization I	___	3	POLS 116 State & Local Government
___	3	ART 122 Two Dimensional Design	___	3	HIST 102 Western Civilization II	___	3	POLS 220 International Politics
___	3	ART 124 Three Dimensional Design	___	3	HIST 103 United States to 1877	___	3	PSYC 111 Intro to Psychology
___	3	ART 130 Drawing I	___	3	HIST 104 United States since 1877	___	3	* PSYC 211 Intro to Behavior Modification
___	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	PSYC 270 Abnormal Psychology
___	3	ART 220 Painting I	___	3	HIST 224 American Studies I	___	3	RELS 120 Religion in America
___	3	ART 221 Painting II	___	3	HIST 225 American Studies II	___	3	RELS 201 Life & Letters of Paul
___	3	ART 230 Drawing II	___	1-3	* HIST 243 Historical Investigations	___	3	RELS 203 World Religions
___	3	ART 250 Ceramics I	___	3	HUMS 210 Integrated Cultural Studies	___	3	RELS 220 Old Testament
___	3	ART 251 Ceramics II	___	1-4	HUMS 211 Integrated Cultural Excursion	___	3	RELS 230 New Testament
___	2	ART 265 Sculpture I	___	2	HUMS 212 Integrated Cultural Enrichment	___	3	SOC 110 Intro to Sociology
___	2	ART 266 Sculpture II	___	3	MUSC 100 Music Appreciation	___	3	SOC 115 Social Problems
___	3	CJ 201 Intro to Criminal Justice	___	1	MUSC 117 Concert Choir	___	3	SOC 220 Family
___	3	COMM 211 Oral Interpretation	___	1	MUSC 118 Chamber Choir	___	3	SOC 221 Minority Relations
___	3	* COMM 212 Interpersonal Communications	___	1	MUSC 121 String Ensemble	___	3	SOC 235 Cultural Diversity
___	3	ECON 105 Elements of Economics	___	1	MUSC 132 Wind Ensemble	___	3	SOC 251 Gerontology
___	3	ECON 201 Principles of Microeconomics	___	1	MUSC 133 Woodwind Ensemble I	___	3	SOC 252 Criminology
___	3	ECON 202 Principles of Macroeconomics	___	1	MUSC 134 Woodwind Ensemble II	___	3	SOC 275 American Indian Studies
___	3	ENGL 211 Intro to Creative Writing	___	1	MUSC 135 Brass Ensemble I	___	4	SPAN 101 First Year Spanish I
___	3	ENGL 221 Intro to Drama	___	1	MUSC 136 Brass Ensemble II	___	4	SPAN 102 First Year Spanish II
___	3	ENGL 222 Intro to Poetry	___	1	MUSC 137 Jazz Ensemble	___	4	SPAN 201 Second Year Spanish I
___	3	ENGL 233 Fantasy & Science Fiction	___	1	* MUSC 138 Percussion Ensemble	___	4	SPAN 202 Second Year Spanish II
___	3	ENGL 236 Women & Literature	___	1	MUSC 145 Applied Music	___	3	SWK 256 Development of Social Welfare
___	3	ENGL 238 Children's Literature	___	1	MUSC 146 Applied Music - Major	___	3	THEA 110 Intro to Theatre Arts
___	3	ENGL 251 British Literature I	___	3	PHIL 101 Intro to Philosophy	___	3	THEA 161 Acting I
___	3	ENGL 252 British Literature II	___	3	PHIL 210 Ethics	___	3	THEA 261 Acting II
___	3	ENGL 261 American Literature I	___	3	PHIL 220 Intro to Logic			
___	3	ENGL 262 American Literature II	___	3	PHIL 250 Philosophy in Cinema			
___	3	ENGL 278 Alternative Literature	___	3	POLS 115 American Government			

Transfer Courses

Transfer Courses

Transfer Courses

General Education Requirements Continued

Category III: BUSINESS, MATH, SCIENCE & TECHNOLOGY

Completed _____ Needed _____

(6 Credits) Must be satisfied with courses from two areas of study. Area of study is based on course prefix.

Gr.	Cr.		Gr.	Cr.		Gr.	Cr.	
3	*	ACCT 200	3/1	CHEM 110	Survey of Chemistry/Lab	3	MATH 146	Applied Calculus I
3	*	ACCT 201	3/1	CHEM 112	Intro to Forensic Science/Lab	4	MATH 165	Calculus I
3/1		ASTR 150	3/1	CHEM 114	Chemistry in Art/Lab	4	MATH 166	Calculus II
3	*	BADM 202	4/1	CHEM 115	Introductory Chemistry/Lab	3	* MATH 208	Discrete Mathematics
3	*	BADM 210	4/1	CHEM 116	Intro to Organic & Biochemistry/Lab	3	MATH 210	Elementary Statistics
3	*	BADM 240	4/1	CHEM 121	General Chemistry I/Lab	4	* MATH 277	Math for Elementary Teachers I
3	*	BADM 281	4/1	CHEM 122	General Chemistry II/Lab	3/1	MICR 202	Introductory Microbiology/Lab
3	*	BADM 282	4	* CIS 164	Networking Fundamentals	3	* NUTR 240	Principles of Nutrition
1	*	BIOL 102	3	CSCI 101	Intro to Computers	3/1	PHYS 100	Concepts of Physics/Lab
3		BIOL 109	3	CSCI 122	Beginning Visual Basic	3/1	PHYS 110	Intro to Astronomy/Lab
3/1		BIOL 111	4	CSCI 160	Computer Science I	3/1	PHYS 211	College Physics I/Lab
3/1		BIOL 115	4	CSCI 161	Computer Science II	3/1	PHYS 212	College Physics II/Lab
3		BIOL 124	3/1	GEOG 121	Physical Geography/Lab	4/1	PHYS 251	University Physics I/Lab
3/1		BIOL 126	3/1	GEOG 102	Historical Geology/Lab	4/1	PHYS 252	University Physics II/Lab
3/1		BIOL 150	3/1	GEOG 105	Physical Geology/Lab	2/1	PLSC 110	World Food Crops/Lab
3/1		BIOL 151	3	GIS 105	Fundamentals of GIS	3/1	SCNC 101	Physical Science I/Lab
3/1		BIOL 220	3	* GIS 107	GIS Applications			Biology & Chemistry
3/1		BIOL 221	4	MATH 103	College Algebra	3/1	SCNC 102	Physical Science II/Lab
3/1		BIOL 250	3	MATH 104	Finite Math			Physics & Geology
3/1		BIOL 251	2	MATH 105	Trigonometry	3/1	SCNC 103	Physical Science II/Lab
3/1		BOT 170	4	MATH 107	Pre-Calculus			Astronomy & Meteorology
3	*	BUSN 120	3	* MATH 137	Applied Algebra	2/1	* SOIL 210	Intro to Soil Science/Lab
Transfer Courses			Transfer Courses			Transfer Courses		
_____			_____			_____		
_____			_____			_____		
_____			_____			_____		
_____			_____			_____		

Academic Skills Courses (ASC)

The following Academic Skills Courses (ASC), as well as Math 102, are pre-college courses indicate the need for college preparation work before enrollment in college level courses. These courses will not carry honor points or earned credit and will not count toward the student's degree program.

Gr.	Cr.		Gr.	Cr.	
2		ASC 082	2	ASC 92	Algebra Prep II
3		ASC 087	2	ASC 93	Algebra Prep III
1		ASC 088	3/1	ASC 098	Basic Biology/Lab
2		ASC 91	3	Math 102	Intermediate Algebra

Math 102 was offered for the last time at BSC in Spring 2012.