

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Unofficial advising worksheet used for planning purposes only



**Industrial Automation Technician**  
 Associate in Applied Science  
 Advising Worksheet\* 2021-2022

Prescribed Technical Program Total	52
General Education Total	16
<b>Total Degree Credits</b>	<b>68</b>

**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
<b>Total Credits</b>			<b>14</b>

**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
<b>Total Credits</b>			<b>13</b>

**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
<b>Total Credits</b>			<b>12</b>

**Semester IV** **Completed**

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

**General Education Requirements** **Completed**

Arts & Humanities/Social & Behavioral Sciences			
1.			3
Business, Math, Science & Technology (Two areas of study)			
1.	MATH 137	Applied Algebra or higher (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	
<b>Total Credits</b>			<b>16</b>

\*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 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	* NUJR 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 III/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.