



# Electric Power Technology

## Associate in Applied Science

Advising Worksheet\* 2018-2019

|                                    |           |
|------------------------------------|-----------|
| Prescribed Technical Program Total | 53        |
| General Education Total            | 15        |
| <b>Total Degree Credits</b>        | <b>68</b> |

### Semester I

#### Prescribed Technical Program Requirements

|                      |     |  |           |
|----------------------|-----|--|-----------|
| ELPW                 | 111 | Introduction to the Electrical Industry & Power Grid | 3         |
| ENRT                 | 103 | Applied Math   | 3         |
| ENRT                 | 106 | DC Fundamentals                                      | 2         |
| ENRT                 | 108 | AC Fundamentals                                      | 3         |
| ELPW                 | 109 | Electrical Industry Safety                           | 3         |
| <b>Total Credits</b> |     |  | <b>14</b> |

### Semester II

#### Prescribed Technical Program Requirements

|                      |     |  |           |
|----------------------|-----|--|-----------|
| ENRT                 | 122 | Industrial Composition and Communication | 4         |
| ELPW                 | 105 | Electrical System Fundamentals           | 3         |
| ELPW                 | 110 | Basic Print Reading                      | 3         |
| ELPW                 | 112 | Electrical System Components             | 3         |
| <b>Total Credits</b> |     |  | <b>13</b> |

### Semester III

#### Prescribed Technical Program Requirements

|                      |     |                              |           |
|----------------------|-----|------------------------------|-----------|
| ELPW                 | 200 | Advanced Print Reading       | 3         |
| ELPW                 | 202 | Advanced Industrial Safety   | 3         |
| ELPW                 | 204 | Advanced Electrical Systems  | 4         |
| ELPW                 | 206 | Electrical System Protection | 4         |
| <b>Total Credits</b> |     |                              | <b>14</b> |

### Semester IV - Choose any 12 credits

#### Prescribed Technical Program Requirements

##### 1. Line Construction Specialization - offered fall semesters

|      |     |  |   |
|------|-----|--|---|
| ELPW | 250 | Transformers   | 4 |
| ELPW | 230 | Underground Line Construction                          | 4 |
| ELPW | 210 | Overhead Transmission & Distribution Line Construction | 4 |

##### 2. Substation Specialization - offered spring semesters

|      |     |                                       |   |
|------|-----|---------------------------------------|---|
| ELPW | 251 | Substation Construction & Maintenance | 4 |
| ELPW | 211 | Substation Relays                     | 4 |
| ELPW | 231 | Substation Operations                 | 4 |

##### 3. System Design Specialization - offered spring semesters

|      |     |                        |   |
|------|-----|------------------------|---|
| ELPW | 208 | Advanced Math          | 4 |
| ELPW | 212 | System Design Basics   | 3 |
| ELPW | 232 | System Design Analysis | 3 |
| ELPW | 252 | Civil Design           | 2 |

##### 4. Metering Specialization - offered fall semesters

|      |     |                                   |   |
|------|-----|-----------------------------------|---|
| ELPW | 208 | Advanced Math                     | 4 |
| ELPW | 213 | Fundamentals of Metering          | 3 |
| ELPW | 233 | Single-Phase & Polyphase Metering | 3 |
| ELPW | 253 | Advanced Metering Technology      | 2 |

**Total Credits 12**

#### General Education Requirements

##### Arts & Humanities/Social & Behavioral Sciences

|    |   |
|----|---|
| 1. | 3 |
|----|---|

##### Business, Math, Science & Technology (Two areas of study)

|    |   |
|----|---|
| 1. | 3 |
| 2. | 3 |

##### 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 15**

\* 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) 2018-2019 Catalog

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, ENGL 125 or COMM 110 <sup>1</sup>
- \_\_\_\_\_ Earned a minimum of 3 credits in Arts & Humanities/Social & Behavioral Sciences
- \_\_\_\_\_ Earned a minimum of 6 credits in Business, Math, Science & Technology <sup>2</sup>
- \_\_\_\_\_ Completed prescribed technical program requirements
- Earned a minimum of 60 credits  
*-Academic Skills Courses (ASC) do not count toward graduation*

- 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
- Declared program of study is degree seeking
- Filed an Application for Degree in the Academic Records Office

**Specific programs may require additional degree/program requirements; refer to your program.**

<sup>1</sup> Programs may have a specific Communications II requirement; refer to your program degree plan.

<sup>2</sup> 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.

Legend  
 (\*) Course not approved as GERTA

## General Education Requirements

### Category I: COMMUNICATIONS Completed \_\_\_\_\_ Needed \_\_\_\_\_

#### Communications I

*(3 Credits) - ENGL 110*

| Gr.   | Cr. | Course                         |
|-------|-----|--------------------------------|
| _____ | 3   | ENGL 110 College Composition I |

Transfer Course \_\_\_\_\_

#### Communications II

*(3 Credits) -ENGL 120, 125, COMM 110 (Select one)*

| Gr.   | Cr. | Course  |
|-------|-----|---|
| _____ | 3   | ENGL 120 College Composition II               |
| _____ | 3   | ENGL 125 Introduction to Professional Writing |
| _____ | 3   | COMM 110 Fundamentals of Public Speaking      |

Transfer Course \_\_\_\_\_



## General Education Requirements Continued

### Category III: BUSINESS, MATH, SCIENCE & TECHNOLOGY

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

|       |     |            |                                      | Completed |       | Needed     |   |
|-------|-----|------------|--------------------------------------|-----------|-------|------------|---|
| Gr.   | Cr. |            |                                      | Gr.       | Cr.   |            |   |
| _____ | 3   | * ACCT 200 | Elements of Accounting I             | _____     | 3     | MATH 146   | Applied Calculus I                                    |
| _____ | 3   | * ACCT 201 | Elements of Accounting II            | _____     | 4     | MATH 165   | Calculus I  |
| _____ | 3/1 | ASTR 150   | Meteorology/Lab                      | _____     | 4     | MATH 166   | Calculus II   |
| _____ | 3   | * BADM 202 | Principles of Management             | _____     | 3     | * MATH 208 | Discrete Mathematics                                  |
| _____ | 3   | * BADM 210 | Advertising I                        | _____     | 3     | MATH 210   | Elementary Statistics                                 |
| _____ | 3   | * BADM 240 | Sales                                | _____     | 4     | * MATH 277 | Mathematics for Elementary Teachers I                 |
| _____ | 3   | * BADM 281 | Organizational Behavior              | _____     | 3/1   | MICR 202   | Introductory Microbiology/Lab                         |
| _____ | 3   | * BADM 282 | Human Resource Management            | _____     | 3     | * NUTR 240 | Principles of Nutrition                               |
| _____ | 1   | * BIOL 102 | Introduction to Aquarium Keeping     | _____     | 3/1   | PHYS 100   | Concepts of Physics/Lab                               |
| _____ | 3   | BIOL 109   | The Living World                     | _____     | 3/1   | PHYS 110   | Introductory Astronomy/Lab                            |
| _____ | 3/1 | BIOL 111   | Concepts of Biology/Lab              | _____     | 4/1   | PHYS 211   | College Physics I/Lab                                 |
| _____ | 3/1 | BIOL 115   | Human Structure and Function/Lab     | _____     | 4/1   | PHYS 212   | College Physics II/Lab                                |
| _____ | 3   | BIOL 124   | Environmental Science                | _____     | 4/1   | PHYS 251   | University Physics I/Lab                              |
| _____ | 3/1 | BIOL 125   | Introduction to Ecology/Lab          | _____     | 4/1   | PHYS 252   | University Physics II/Lab                             |
| _____ | 3/1 | BIOL 126   | Human Biology/Lab                    | _____     | 2/1   | PLSC 110   | World Food Crops/Lab                                  |
| _____ | 3/1 | BIOL 150   | General Biology I/Lab                | _____     | 3/1   | SCNC 101   | Physical Science I/Lab<br>(Biology & Chemistry)       |
| _____ | 3/1 | BIOL 151   | General Biology II/Lab               | _____     | 3/1   | SCNC 102   | Physical Science II/Lab<br>(Physics & Geology)        |
| _____ | 3/1 | BIOL 220   | Anatomy and Physiology I/Lab         | _____     | 3/1   | SCNC 103   | Physical Science III/Lab<br>(Astronomy & Meteorology) |
| _____ | 3/1 | BIOL 221   | Anatomy and Physiology II/Lab        | _____     | 2/1 * | SOIL 210   | Introduction to Soil Science/Lab                      |
| _____ | 3/1 | BIOL 250   | Survey of Tropical Biology/Lab       |           |       |            |   |
| _____ | 3/1 | BOT 170    | Plant Form and Diversity/Lab         |           |       |            |   |
| _____ | 3   | * BUSN 120 | Fundamentals of Business             |           |       |            |   |
| _____ | 3/1 | CHEM 110   | Survey of Chemistry/Lab              |           |       |            |   |
| _____ | 3/1 | CHEM 112   | Introduction to Forensic Science/Lab |           |       |            |   |

Transfer Courses

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Transfer Courses

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Transfer Courses

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## 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. |         |                      | Gr.   | Cr. |         |                          |
|-------|-----|---------|----------------------|-------|-----|---------|--------------------------|
| _____ | 2   | ASC 082 | Effective Reading    | _____ | 2   | ASC 94  | College Writing Prep I   |
| _____ | 3   | ASC 087 | College Writing Prep | _____ | 2   | ASC 95  | College Writing Prep II  |
| _____ | 1   | ASC 088 | Composition Lab      | _____ | 2   | ASC 96  | College Writing Prep III |
| _____ | 2   | ASC 91  | Algebra Prep I       | _____ | 3/1 | ASC 098 | Basic Biology/Lab        |
| _____ | 2   | ASC 92  | Algebra Prep II      |       |     |         |                          |
| _____ | 2   | ASC 93  | Algebra Prep III     |       |     |         |                          |

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