

Name: _____



Energy Services & Renewable Technician
 Associate in Applied Science
 Advising Worksheet* 2021-2022

| | |
|------------------------------------|-----------|
| Prescribed Technical Program Total | 53 |
| General Education Total | 16 |
| Total Degree Credits | 69 |

| 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 | Energy Technician Applications & Troubleshooting | 4 | |
| | | | Total Credits | 13 |

| Semester III | | | | Completed |
|--|-----|--|----------------------|-----------|
| Prescribed Technical Program Requirements | | | | |
| ENRT | 118 | Heat Transfer, Fluid Flow & Thermodynamics | 3 | |
| ENRT | 105 | Safety, Health & Environment | 3 | |
| ENRT | 107 | Mechanical Fundamentals | 3 | |
| ENRT | 110 | Plant Equipment & Systems | 4 | |
| | | | Total Credits | 13 |

| Semester IV | | | | Completed |
|--|-----|--|----------------------|-----------|
| Prescribed Technical Program Requirements | | | | |
| ENRT | 112 | Print Reading | 3 | |
| ENRT | 240 | Industrial SCADA | 3 | |
| PWRP | 224 | Power Generation Components & Protection | 3 | |
| ENRT | 116 | Instrumentation & 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 (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 | | | | |

*Unofficial advising worksheet used for planning purposes only

Associate in Applied Science (AAS) 2021-2022 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 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

- 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.

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.

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, ENGL 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 _____

General Education Requirements Continued

Category II: ARTS & HUMANITIES/SOCIAL & BEHAVIORAL SCIENCES

Completed

Needed

(3 Credits)

| Gr. | Cr. | | Gr. | Cr. | | Gr. | Cr. | |
|-----|-----|----------|-----|-----|----------|-----|-----|----------|
| 3 | | ANTH 170 | 3 | | HIST 101 | 3 | | POLS 115 |
| 3 | | ANTH 171 | 3 | | HIST 102 | 3 | | POLS 116 |
| 3 | | ART 110 | 3 | | HIST 103 | 3 | | POLS 220 |
| 3 | | ART 122 | 3 | | HIST 104 | 3 | | PSYC 100 |
| 3 | | ART 124 | 3 | | HIST 211 | 3 | | PSYC 111 |
| 3 | | ART 130 | 3 | | HIST 212 | 3 | * | PSYC 211 |
| 3 | | ART 210 | 3 | | HIST 220 | 3 | | PSYC 250 |
| 3 | | ART 211 | 3 | | HIST 222 | 3 | * | PSYC 261 |
| 3 | | ART 220 | 3 | | HIST 224 | 3 | | PSYC 270 |
| 3 | | ART 221 | 3 | | HIST 225 | 3 | | RELS 120 |
| 3 | | ART 230 | 1-3 | * | HIST 243 | 3 | | RELS 201 |
| 3 | | ART 250 | 3 | | HUMS 210 | 3 | | RELS 203 |
| 3 | | ART 251 | 1-4 | | HUMS 211 | 3 | | RELS 220 |
| 2 | | ART 265 | 2 | | HUMS 212 | 3 | | RELS 230 |
| 2 | | ART 266 | 3 | | MUSC 100 | 3 | | SOC 110 |
| 3 | * | CIS 280 | 1 | | MUSC 117 | 3 | | SOC 115 |
| 3 | | CJ 201 | 1 | | MUSC 118 | 3 | | SOC 220 |
| 3 | | COMM 112 | 1 | | MUSC 121 | 3 | | SOC 221 |
| 3 | | COMM 211 | 1 | | MUSC 132 | 3 | | SOC 235 |
| 3 | | COMM 212 | 1 | | MUSC 133 | 3 | | SOC 251 |
| 3 | | ECON 105 | 1 | | MUSC 134 | 3 | | SOC 252 |
| 3 | | ECON 201 | 1 | | MUSC 135 | 3 | | SOC 275 |
| 3 | | ECON 202 | 1 | | MUSC 136 | 4 | | SPAN 101 |
| 3 | | ENGL 211 | 1 | | MUSC 137 | 4 | | SPAN 102 |
| 3 | | ENGL 221 | 1 | * | MUSC 138 | 4 | | SPAN 201 |
| 3 | | ENGL 222 | 1 | | MUSC 145 | 4 | | SPAN 202 |
| 3 | | ENGL 233 | 1 | | MUSC 146 | 3 | | SWK 256 |
| 3 | | ENGL 236 | 3 | | PHIL 101 | 3 | | THEA 110 |
| 3 | | ENGL 238 | 3 | | PHIL 210 | 3 | | THEA 161 |
| 3 | | ENGL 251 | 3 | | PHIL 220 | 3 | | THEA 180 |
| 3 | | ENGL 252 | 3 | | PHIL 250 | 3 | | THEA 181 |
| 3 | | ENGL 261 | 3 | | PHIL 253 | 3 | | THEA 261 |
| 3 | | ENGL 262 | | | | | | |
| 3 | | ENGL 278 | | | | | | |
| 3 | | GEOG 161 | | | | | | |

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 | Elements of Accounting I | _____ | 3/1 | CHEM 110 | Survey of Chemistry/Lab | _____ | 3 | MATH 146 | Applied Calculus I |
| _____ | 3 | * | ACCT 201 | Elements of Accounting II | _____ | 3/1 | CHEM 112 | Introduction to Forensic Science/Lab | _____ | 4 | MATH 165 | Calculus I |
| _____ | 3/1 | | ASTR 150 | 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 and Biochemistry/Lab | _____ | 3 | MATH 210 | Elementary Statistics |
| _____ | 3 | | BADM 240 | Sales | _____ | 4/1 | CHEM 121 | General Chemistry I/Lab | _____ | 4 | * MATH 277 | Mathematics 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 | _____ | 3 | * CIS 147 | Principles of Information Security | _____ | 3 | * NUTR 240 | Principles of Nutrition |
| _____ | 1 | * | BIOL 102 | Introduction to Aquarium Keeping | _____ | 4 | * CIS 164 | Networking Fundamentals I | _____ | 3/1 | PHYS 100 | Concepts of Physics/Lab |
| _____ | 3 | | BIOL 109 | The Living World | _____ | 3 | CSCI 101 | Introduction to Computers | _____ | 3/1 | PHYS 110 | Introductory Astronomy/Lab |
| _____ | 3/1 | | BIOL 111 | Concepts of Biology/Lab | _____ | 3 | CSCI 122 | Beginning Visual Basic | _____ | 4/1 | PHYS 211 | College Physics I/Lab |
| _____ | 3/1 | | BIOL 115 | Concepts of Anatomy & Physiology/Lab | _____ | 4 | CSCI 160 | Computer Science I | _____ | 4/1 | PHYS 212 | College Physics II/Lab |
| _____ | 3 | | BIOL 124 | Environmental Science | _____ | 4 | CSCI 161 | Computer Science II | _____ | 4/1 | PHYS 251 | University Physics I/Lab |
| _____ | 3/1 | | BIOL 125 | Introduction to Ecology/Lab | _____ | 3/1 | GEOG 121 | Physical Geography/Lab | _____ | 4/1 | PHYS 252 | University Physics II/Lab |
| _____ | 3/1 | | BIOL 126 | Human Biology/Lab | _____ | 3/1 | GEO 102 | Historical Geology/Lab | _____ | 2/1 | PLSC 110 | World Food Crops/Lab |
| _____ | 3/1 | | BIOL 150 | General Biology I/Lab | _____ | 3/1 | GEO 105 | Physical Geology/Lab | _____ | 3/1 | SCNC 101 | Physical Science I/Lab (Biology & Chemistry) |
| _____ | 3/1 | | BIOL 151 | General Biology II/Lab | _____ | 3 | GIS 105 | Fundamentals of GIS | _____ | 3/1 | SCNC 102 | Physical Science II/Lab (Physics & Geology) |
| _____ | 3/1 | | BIOL 170 | General Zoology/Lab | _____ | 3 | * GIS 107 | GIS Applications | _____ | 3/1 | SCNC 103 | Physical Science III/Lab (Astronomy & Meteorology) |
| _____ | 3/1 | | BIOL 220 | Anatomy and Physiology I/Lab | _____ | 4 | MATH 103 | College Algebra | _____ | 2/1 | * SOIL 210 | Introduction to Soil Science/Lab |
| _____ | 3/1 | | BIOL 221 | Anatomy and Physiology II/Lab | _____ | 3 | MATH 104 | Finite Mathematics | | | | |
| _____ | 3/1 | | BIOL 250 | Survey of Tropical Biology/Lab | _____ | 2 | MATH 105 | Trigonometry | | | | |
| _____ | 3/1 | | BOT 170 | Plant Form and Diversity/Lab | _____ | 4 | MATH 107 | Pre-Calculus | | | | |
| _____ | 3 | * | BUSN 120 | Fundamentals of Business | _____ | 3 | * MATH 137 | Applied Algebra | | | | |

Transfer Courses

Transfer Courses

Transfer Courses

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 |
| _____ | 2 | | ASC 91 | Algebra Prep I | _____ | 2 | ASC 95 | College Writing Prep II |
| _____ | 2 | | ASC 92 | Algebra Prep II | _____ | 2 | ASC 96 | College Writing Prep III |
| _____ | 2 | | ASC 93 | Algebra Prep III | _____ | 3/1 | ASC 098 | Basic Biology/Lab |

*This 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 college degree requirements.