



Power Generation Technology

Associate in Applied Science

Advising Worksheet* 2021-2022

| | |
|------------------------------------|-----------|
| Prescribed Technical Program Total | 52 |
| General Education Total | 15 |
| Total Degree Credits | 67 |

| Semester I | Completed |
|------------|-----------|
|------------|-----------|

| Prescribed Technical Program Requirements | | | |
|---|-----|-----------------------------------|-----------|
| ENRT | 101 | Introduction to Energy Technology | 3 |
| ENRT | 105 | Safety, Health & Environment | 3 |
| ENRT | 107 | Mechanical Fundamentals | 3 |
| ENRT | 110 | Plant Equipment & Systems | 4 |
| Total Credits | | | 13 |

| Semester II | Completed |
|-------------|-----------|
|-------------|-----------|

| Prescribed Technical Program Requirements | | | |
|---|-----|---------------------------|-----------|
| ENRT | 112 | Print Reading | 3 |
| ENRT | 104 | Electrical Fundamentals | 3 |
| ENRT | 116 | Instrumentation & Control | 4 |
| ENRT | 224 | Automation & Control | 3 |
| Total Credits | | | 13 |

| Semester III | Completed |
|--------------|-----------|
|--------------|-----------|

| Prescribed Technical Program Requirements | | | |
|---|-----|--|-----------|
| ENRT | 118 | Heat Transfer, Fluid Flow & Thermodynamics | 3 |
| ENRT | 120 | Water Purification & Treatment | 3 |
| ENRT | 205 | Steam Generation | 3 |
| ENRT | 215 | Oper., Troubleshooting & Communications | 3 |
| Total Credits | | | 12 |

| Semester IV | Completed |
|-------------|-----------|
|-------------|-----------|

| Prescribed Technical Program Requirements | | | |
|---|-----|--|-----------|
| PWRP | 207 | Boilers & Environmental Protection | 3 |
| ENRT | 221 | Applied Electronics | 3 |
| PWRP | 210 | Turbines & Combined Cycle | 3 |
| PWRP | 224 | Power Generation Components & Protection | 3 |
| ENRT | 220 | Practical Applications | 2 |
| Total Credits | | | 14 |

| General Education Requirements | Completed |
|--------------------------------|-----------|
|--------------------------------|-----------|

| Arts & Humanities/Social & Behavioral Sciences | | | |
|---|---|---|-----------|
| 1. | | 3 | |
| Business, Math, Science & Technology (Two areas of study required.) | | | |
| 1. | MATH 137 Applied Algebra or higher (Required) | 3 | |
| 2. | | 3 | |
| Communications I | | | |
| ENGL | 110 College Composition I (Required) | 3 | |
| Communications II (Select one course.) | | | |
| ENGL | 120 College Composition II | | |
| ENGL | 125 Intro to Professional Writing | 3 | |
| COMM | 110 Fundamentals of Public Speaking | | |
| Total Credits | | | 15 |

*Unofficial advising worksheet used for planning purposes only

Associate in Applied Science (AAS)

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, 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 Completed _____ Needed _____

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 | 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 | Intro 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 & Biochemistry/Lab | ___ | 3 | MATH 210 | Elementary Statistics |
| ___ | 3 | * | BADM 240 | Sales | ___ | 4/1 | CHEM 121 | General Chemistry I/Lab | ___ | 4 | * MATH 277 | Math 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 Mgmt | ___ | 4 | * CIS 164 | Networking Fundamentals | ___ | 3 | * NUTR 240 | Principles of Nutrition |
| ___ | 1 | * | BIOL 102 | Intro to Aquarium Keeping | ___ | 3 | CSCI 101 | Intro to Computers | ___ | 3/1 | PHYS 100 | Concepts of Physics/Lab |
| ___ | 3 | | BIOL 109 | Living World | ___ | 3 | CSCI 122 | Beginning Visual Basic | ___ | 3/1 | PHYS 110 | Intro to Astronomy/Lab |
| ___ | 3/1 | | BIOL 111 | Concepts of Biology/Lab | ___ | 4 | CSCI 160 | Computer Science I | ___ | 3/1 | PHYS 211 | College Physics I/Lab |
| ___ | 3/1 | | BIOL 115 | Human Structure & Function/Lab | ___ | 4 | CSCI 161 | Computer Science II | ___ | 3/1 | PHYS 212 | College Physics II/Lab |
| ___ | 3 | | BIOL 124 | Environmental Science | ___ | 3/1 | GEOG 121 | Physical Geography/Lab | ___ | 4/1 | PHYS 251 | University Physics I/Lab |
| ___ | 3/1 | | BIOL 126 | Human Biology/Lab | ___ | 3/1 | GEOG 102 | Historical Geology/Lab | ___ | 4/1 | PHYS 252 | University Physics II/Lab |
| ___ | 3/1 | | BIOL 150 | General Biology I/Lab | ___ | 3/1 | GEOG 105 | Physical Geology/Lab | ___ | 2/1 | PLSC 110 | World Food Crops/Lab |
| ___ | 3/1 | | BIOL 151 | General Biology II/Lab | ___ | 3 | GIS 105 | Fundamentals of GIS | ___ | 3/1 | SCNC 101 | Physical Science I/Lab Biology & Chemistry |
| ___ | 3/1 | | BIOL 220 | Anatomy & Physiology I/Lab | ___ | 3 | * GIS 107 | GIS Applications | ___ | 3/1 | SCNC 102 | Physical Science II/Lab Physics & Geology |
| ___ | 3/1 | | BIOL 221 | Anatomy & Physiology II/Lab | ___ | 4 | MATH 103 | College Algebra | ___ | 3/1 | SCNC 103 | Physical Science III/Lab Astronomy & Meteorology |
| ___ | 3/1 | | BIOL 250 | Survey-Tropical Biology/Lab | ___ | 3 | MATH 104 | Finite Math | ___ | 2/1 * | SOIL 210 | Intro to Soil Science/Lab |
| ___ | 3/1 | | BIOL 251 | Community Ecology/Lab | ___ | 2 | MATH 105 | Trigonometry | | | | |
| ___ | 3/1 | | BOT 170 | Plant Form & 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), 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 | Effective Reading | ___ | 2 | ASC 92 | Algebra Prep II |
| ___ | 3 | | ASC 087 | College Writing Prep | ___ | 2 | ASC 93 | Algebra Prep III |
| ___ | 1 | | ASC 088 | Composition Lab | ___ | 3/1 | ASC 098 | Basic Biology/Lab |
| ___ | 2 | | ASC 91 | Algebra Prep I | ___ | 3 | Math 102 | Intermediate Algebra |

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