



**Petroleum Engineering
Technology**
Associate in Applied Science
Advising Worksheet* 2016-2017

Freshman Year - Fall Semester

| Prescribed Technical Program Requirements | | | |
|---|----------|---|-----------|
| ENRT | 101 | Introduction to Energy Technology | 4 |
| General Education Courses | | | |
| <i>Communications I</i> | | | |
| ENGL | 110 | College Composition I (Required) | 3 |
| <i>Business, Math, Science & Technology</i> | | | |
| GEOL | 105/105L | Physical Geology/Lab ¹ (Required) | 4 |
| GIS | 105 | Fundamentals of Geographic Information Systems (Required) | 3 |
| Total Credits | | | 14 |

Freshman Year - Spring Semester

| Prescribed Technical Program Requirements | | | |
|--|----------|--------------------------------------|-----------|
| ENGR | 101 | Graphical Communication | 3 |
| GIS | 107 | GIS Applications | 3 |
| MATH | 105 | Trigonometry ² | 2 |
| PET | 115/115L | Petroleum Geology/Lab | 4 |
| General Education Course | | | |
| <i>Communications II</i> (Select one of the following) | | | |
| ENGL | 120 | College Composition II | 3 |
| ENGL | 125 | Introduction to Professional Writing | |
| Total Credits | | | 15 |

¹ This course is required to proceed to the next semester. It is only offered in the fall.

² MATH 103 is not a required program course, but is a prerequisite for MATH 103.

³ Internship is optional. If not taken, it must be replaced with 3 elective credit hours that are approved by advisor.

| | |
|------------------------------------|-----------|
| Prescribed Technical Program Total | 42 |
| General Education Total | 15 |
| Elective Credit | 3 |
| Total Degree Credits | 60 |

Sophomore Year - Fall Semester

| Prescribed Technical Program Requirements | | | |
|---|-----|---------------------------------|-----------|
| ENRT | 105 | Safety , Health and Environment | 3 |
| GIS | 250 | PET Applications in GIS | 1 |
| PET | 121 | Petroleum Data Management I | 3 |
| PET | 131 | Exploration and Production | 3 |
| PET | 251 | Well Completions | 3 |
| Total Credits | | | 13 |

Sophomore Year - Spring Semester

| Prescribed Technical Program Requirements | | | |
|---|-----|---|-----------|
| PET | 221 | Petroleum Data Management II | 3 |
| PET | 241 | Principles of Reservoir Engineering | 3 |
| PET | 280 | Project Management in PET | 3 |
| PROP | 239 | Gas Processing | 3 |
| General Education Course | | | |
| <i>Arts & Humanities/Social & Behavioral Sciences</i> | | | |
| ECON | 201 | Principles of Microeconomics (Required) | 3 |
| Total Credits | | | 15 |

Sophomore Year - Summer Semester

| Electives ³ (Select one of the following) | | | |
|--|-----|----------------------------------|----------|
| PET | 197 | Cooperative Education/Internship | 3 |
| Total Credits | | | 3 |

| Certificate of Completion in Geographic Information Systems can be achieved with the addition of: | | | |
|---|----------|---------------------------|---|
| GEOG | 121/121L | Physical Geography/Lab | 4 |
| GIS | 201 | Advanced GIS Applications | 3 |

*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.

Associate in Applied Science (AAS) 2016-2017 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
- _____ Earned a minimum of 3 credits in Arts & Humanities/Social & Behavioral Science
- _____ Earned a minimum of 6 credits in Business, Math, Science & Technology
- _____ Earned prescribed technical program requirements
- Earned a minimum of 60 credits
-Academic Skills Courses (ASC) do not count toward graduation

- Earned a minimum of 15 institutional credits (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 | 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 | ART 110 | _____ | 3 | HIST 101 | _____ | 3 | POLS 115 |
| _____ | 3 | ART 122 | _____ | 3 | HIST 102 | _____ | 3 | POLS 116 |
| _____ | 3 | ART 124 | _____ | 3 | HIST 103 | _____ | 3 | POLS 220 |
| _____ | 3 | ART 130 | _____ | 3 | HIST 104 | _____ | 3 | PSYC 111 |
| _____ | 3 | ART 210 | _____ | 3 | HIST 220 | _____ | 3 | * PSYC 211 |
| _____ | 3 | ART 211 | _____ | 3 | HIST 222 | _____ | 3 | PSYC 250 |
| _____ | 3 | ART 220 | _____ | 3 | HIST 224 | _____ | 3 | * PSYC 261 |
| _____ | 3 | ART 221 | _____ | 3 | HIST 225 | _____ | 3 | PSYC 270 |
| _____ | 3 | ART 230 | _____ | 1-3 | * HIST 243 | _____ | 3 | RELS 120 |
| _____ | 3 | ART 250 | _____ | 3 | HUMS 210 | _____ | 3 | RELS 201 |
| _____ | 3 | ART 251 | _____ | 1-4 | HUMS 211 | _____ | 3 | RELS 203 |
| _____ | 2 | ART 265 | _____ | 2 | HUMS 212 | _____ | 3 | RELS 220 |
| _____ | 2 | ART 266 | _____ | 3 | MUSC 100 | _____ | 3 | RELS 230 |
| _____ | 3 | CJ 201 | _____ | 1 | MUSC 117 | _____ | 3 | SOC 110 |
| _____ | 3 | COMM 211 | _____ | 1 | MUSC 118 | _____ | 3 | SOC 115 |
| _____ | 3 | * COMM 212 | _____ | 1 | MUSC 121 | _____ | 3 | SOC 220 |
| _____ | 3 | ECON 105 | _____ | 1 | MUSC 132 | _____ | 3 | SOC 221 |
| _____ | 3 | ECON 201 | _____ | 1 | MUSC 133 | _____ | 3 | SOC 235 |
| _____ | 3 | ECON 202 | _____ | 1 | MUSC 134 | _____ | 3 | SOC 251 |
| _____ | 3 | ENGL 211 | _____ | 1 | MUSC 135 | _____ | 3 | SOC 252 |
| _____ | 3 | ENGL 221 | _____ | 1 | MUSC 136 | _____ | 3 | SOC 275 |
| _____ | 3 | * ENGL 222 | _____ | 1 | MUSC 137 | _____ | 4 | SPAN 101 |
| _____ | 3 | ENGL 233 | _____ | 1 | * MUSC 138 | _____ | 4 | SPAN 102 |
| _____ | 3 | ENGL 236 | _____ | 1 | MUSC 145 | _____ | 4 | SPAN 201 |
| _____ | 3 | ENGL 238 | _____ | 1 | MUSC 146 | _____ | 4 | SPAN 202 |
| _____ | 3 | ENGL 251 | _____ | 3 | PHIL 101 | _____ | 3 | SWK 256 |
| _____ | 3 | ENGL 252 | _____ | 3 | PHIL 210 | _____ | 3 | THEA 110 |
| _____ | 3 | ENGL 261 | _____ | 3 | PHIL 220 | _____ | 3 | THEA 161 |
| _____ | 3 | ENGL 262 | _____ | 3 | PHIL 250 | _____ | 3 | THEA 261 |
| _____ | 3 | ENGL 278 | _____ | 3 | PHIL 253 | _____ | | |

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 | 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 Management | _____ | 4 | * CIS 164 | Networking Fundamentals I | _____ | 3 | * NUTR 240 | Principles of Nutrition |
| _____ | 1 | * | BIOL 102 | Introduction to Aquarium Keeping | _____ | 3 | CSCI 101 | Introduction to Computers | _____ | 3/1 | PHYS 100 | Concepts of Physics/Lab |
| _____ | 3 | | BIOL 109 | The Living World | _____ | 3 | CSCI 122 | Beginning Visual Basic | _____ | 3/1 | PHYS 110 | Introductory 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 and 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 and Physiology I/Lab | _____ | 3 | * GIS 107 | GIS Applications | _____ | 3/1 | SCNC 102 | Physical Science II/Lab (Physics & Geology) |
| _____ | 3/1 | | BIOL 221 | Anatomy and Physiology II/Lab | _____ | 4 | MATH 103 | College Algebra | _____ | 3/1 | SCNC 103 | Physical Science III/Lab (Astronomy & Meteorology) |
| _____ | 3/1 | | BIOL 250 | Survey of Tropical Biology/Lab | _____ | 3 | MATH 104 | Finite Mathematics | _____ | 2/1 | * SOIL 210 | Introduction to Soil Science/Lab |
| _____ | 3/1 | | BIOL 251 | Community Ecology/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), as well as Math 102, are pre-college courses that 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 | | | | |

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