



# Bachelor of Applied Science in Energy Management

Degree Plan 2013 - 2014

Technical/Elective Credits	48
General Education Credits	42
<u>Energy Management Credits</u>	<u>30</u>
<b>Total Degree Credits</b>	<b>120</b>

## General Education Courses

### Arts & Humanities

1.			3
2.			3

### Business, Math, Science & Technology

MATH	137	Applied Algebra (or higher)	3
ACCT	200	Elements of Accounting I	3
ACCT	201	Elements of Accounting II <b>OR</b>	3-4
MATH	103	College Algebra (or higher)	
BADM	202	Principles of Management	3
BADM	281	Organizational Behavior	3
BADM	282	Human Resource Management	3

### Business, Math, Science & Technology

(Select one science course, does not have to be a lab.)

1.			3
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### Communications I

ENGL	110	College Composition I	3
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### Communications II (Select one course.)

ENGL	120	College Composition II	3
ENGL	125	Introduction to Professional Writing	

### Communications III

COMM	110	Fundamentals of Public Speaking	3
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### Social and Behavioral Science

ECON	201	Principles of Microeconomics	3
ECON	202	Principles of Macroeconomics	3

**Total Credits 42-43**

## Energy Management Courses

ENRG	302	Ethical Issues in the Energy Industry	3
ENRG	310	Energy Production and the Environment	3
ENRG	315	Energy Management Communications	3
ENRG	320	Workforce Safety	3
ENRG	330	Government Regs in the Energy Industry	3
ENRG	404	New & Emerging Energy Technologies	3
ENRG	412	Energy Economics and Finance	3
ENRG	420	Energy Markets and Structures	3
ENRG	430	Project Management in the Energy Industry	3
ENRG	435	Managing Energy Facilities	3

**Total Credits 30**

# Bachelor in Applied Science (BAS)

## Degree Checklist

- |  |   |
|--|---|
| <input type="checkbox"/> Earned a minimum of 30 institutional credit (BSC only)      | <input type="checkbox"/> Earned a minimum of 3 credits in ENGL 120, 121 or 125                  |
| <input type="checkbox"/> Earned a minimum 2.00 institutional GPA (BSC only)          | <input type="checkbox"/> Earned a minimum of 3 credits in COMM 110                              |
| <input type="checkbox"/> Earned a minimum 2.25 cumulative GPA (BSC + Transfer)       | <input type="checkbox"/> Earned a minimum of 6 credits in Arts & Humanities                     |
| <input type="checkbox"/> Completed Energy Management Course requirements             | <input type="checkbox"/> Earned a minimum of 6 credits in Social & Behavioral Sciences          |
| <input type="checkbox"/> Earned 30 credits of upper division (300/400) level courses | <input type="checkbox"/> Earned a minimum of 21 credits in Business, Math, Science & Technology |
| <input type="checkbox"/> Earned a minimum of 120 total credits                       | <input type="checkbox"/> Cleared all college obligations  |
| <input type="checkbox"/> Earned a minimum of 3 credits in ENGL 110                   | <input type="checkbox"/> Filed an Application for Degree  |

-Academic Skills Courses (ASC) do not apply toward graduation.

## General Education Requirements

### Category I: COMMUNICATIONS

#### Communications I

(3 Credits) - ENGL 110

Gr.	Cr.		Transfer Course
_____	3	ENGL 110 College Composition I	_____

#### Communications II

(3 Credits) -ENGL 120, 121, 125 (Select one)

Gr.	Cr.		Gr.	Cr.		Gr.	Cr.	
_____	3	ENGL 120 College Composition II	_____	3	ENGL 121 Honors Composition II	_____	3	ENGL 125 Intro to Professional Writing

#### Communications III

(3 credits) - COMM 110

Gr.	Cr.		Transfer Course
_____	3	COMM 110 Fund of Public Speaking	_____

### Category II: ARTS & HUMANITIES

(6 Credits) - No more than 3 credits of Fine Arts activity can be used.

Gr.	Cr.		Gr.	Cr.		Gr.	Cr.	
_____	3	ART 110 Intro to the Visual Art	_____	3	HIST 101 Western Civilization I	_____	3	PHIL 101 Intro to Philosophy
_____	3	F ART 122 Two Dimensional Design	_____	3	HIST 102 Western Civilization II	_____	3	PHIL 210 Ethics
_____	3	F ART 124 Three Dimensional Design	_____	3	HIST 103 United States to 1877	_____	3	PHIL 220 Intro to Logic
_____	3	F ART 130 Drawing I	_____	3	HIST 104 United States since 1877	_____	3	PHIL 250 Philosophy in Cinema
_____	3	ART 210 Art History I	_____	3	HIST 220 North Dakota History	_____	3	RELS 120 Religion in America
_____	3	ART 211 Art History II	_____	3	HIST 222 History of the Western Frontier	_____	3	RELS 201 Life & Letters of Paul
_____	3	F ART 220 Painting I	_____	3	HIST 224 American Studies I	_____	3	RELS 203 World Religions
_____	3	F ART 221 Painting II	_____	3	HIST 225 American Studies II	_____	3	RELS 220 Old Testament
_____	3	F ART 230 Drawing II	_____	1-3	* HIST 243 Historical Investigations	_____	3	RELS 230 New Testament
_____	3	F ART 250 Ceramics I	_____	3	HUMS 210 Integrated Cultural Studies	_____	4	SPAN 101 First Year Spanish I
_____	3	F ART 251 Ceramics II	_____	1-4	HUMS 211 Integrated Cultural Excursion	_____	4	SPAN 102 First Year Spanish II
_____	2	F ART 265 Sculpture I	_____	2	HUMS 212 Integrated Cultural Enrichment	_____	4	SPAN 201 Second Year Spanish I
_____	2	F ART 266 Sculpture II	_____	3	MUSC 100 Music Appreciation	_____	4	SPAN 202 Second Year Spanish II
_____	3	COMM 211 Oral Interpretation	_____	1	F MUSC 117 Concert Choir	_____	3	THEA 110 Intro to Theatre Arts
_____	3	ENGL 211 Intro to Creative Writing	_____	1	F MUSC 118 Chamber Choir	_____	3	F THEA 161 Acting I
_____	3	ENGL 221 Intro to Drama	_____	1	F MUSC 121 String Ensemble	_____	3	F THEA 261 Acting II

_____	3	ENGL 222	Intro to Poetry	_____	1	F	MUSC 132	Wind Ensemble	
_____	3	ENGL 233	Fantasy & Science Fiction	_____	1	F	MUSC 133	Woodwind Ensemble I	
_____	3	ENGL 236	Women & Literature	_____	1	F	MUSC 134	Woodwind Ensemble II	
_____	3	ENGL 238	Children's Literature	_____	1	F	MUSC 135	Brass Ensemble I	Transfer Courses
_____	3	ENGL 251	British Literature I	_____	1	F	MUSC 136	Brass Ensemble II	_____
_____	3	ENGL 252	British Literature II	_____	1	F	MUSC 137	Jazz Ensemble	_____
_____	3	ENGL 261	American Literature I	_____	1	F/*	MUSC 138	Percussion Ensemble	_____
_____	3	ENGL 262	American Literature II	_____	1	F	MUSC 145	Applied Music	_____
_____	3	ENGL 278	Alternative Literature	_____	1	F	MUSC 146	Applied Music - Major	_____
_____	3	ENGL 279	World Autobiography						_____

### Category III: SOCIAL & BEHAVIORAL SCIENCE

(6 Credits)

Gr.	Cr.			Gr.	Cr.			Gr.	Cr.		
_____	3	CJ 201	Intro to Criminal Justice	_____	3	PSYC 111	Intro to Psychology	_____	3	SOC 235	Cultural Diversity
_____	3	* COMM 212	Interpersonal Communications	_____	3	* PSYC 211	Intro to Behavior Modification	_____	3	SOC 251	Gerontology
_____	3	ECON 105	Elements of Economics	_____	3	PSYC 250	Developmental Psychology	_____	3	SOC 252	Criminology
_____	3	ECON 201	Principles of Microeconomics	_____	3	PSYC 270	Abnormal Psychology	_____	3	SOC 275	American Indian Studies
_____	3	ECON 202	Principles of Macroeconomics	_____	3	SOC 110	Intro to Sociology	_____	3	SWK 256	Development of Social Welfare
_____	3	POLS 115	American Government	_____	3	SOC 115	Social Problems				
_____	3	POLS 116	State & Local Government	_____	3	SOC 220	Family	Transfer Courses			
_____	3	POLS 220	International Politics	_____	3	SOC 221	Minority Relations	_____			
								_____			
								_____			

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

(21 Credits) -Science Course (no lab required) - 3 credit minimum

Gr.	Cr.			Gr.	Cr.			Gr.	Cr.		
_____	3	* ACCT 200	Elements of Accounting I	_____	3/1	CHEM 114	Chemistry in Art/Lab	_____	3	* MATH 208	Discrete Mathematics
_____	3	* ACCT 201	Elements of Accounting II	_____	4/1	CHEM 115	Introductory Chemistry/Lab	_____	3	MATH 210	Elementary Statistics
_____	3/1	ASTR 150	Meteorology/Lab	_____	4/1	CHEM 116	Intro to Organic & Biochemistry/Lab	_____	4	* MATH 277	Math for Elementary Teachers I
_____	3	* BADM 202	Principles of Management	_____	4/1	CHEM 121	General Chemistry I/Lab	_____	3/1	MICR 202	Introductory Microbiology/Lab
_____	3	* BADM 281	Organizational Behavior	_____	4/1	CHEM 122	General Chemistry II/Lab	_____	3	* NUTR 240	Principles of Nutrition
_____	3	* BADM 282	Human Resource Mgmt	_____	4	* CIS 164	Networking Fundamentals	_____	3/1	PHYS 100	Concepts of Physics/Lab
_____	1	* BIOL 102	Intro to Aquarium Keeping	_____	3	CSCI 101	Intro to Computers	_____	3/1	PHYS 110	Intro to Astronomy/Lab
_____	3	BIOL 109	Living World	_____	3	CSCI 122	Beginning Visual Basic	_____	3/1	PHYS 211	College Physics I/Lab
_____	3/1	BIOL 111	Concepts of Biology/Lab	_____	4	CSCI 160	Computer Science I	_____	3/1	PHYS 212	College Physics II/Lab
_____	3/1	BIOL 115	Human Structure & Function/Lab	_____	4	CSCI 161	Computer Science II	_____	4/1	PHYS 251	University Physics I/Lab
_____	3	BIOL 124	Environmental Science	_____	3/1	GEOG 121	Physical Geography/Lab	_____	4/1	PHYS 252	University Physics II/Lab
_____	3/1	BIOL 126	Human Biology/Lab	_____	3/1	GEOG 102	Historical Geology/Lab	_____	2/1	PLSC 110	World Food Crops/Lab
_____	3/1	BIOL 150	General Biology I/Lab	_____	3/1	GEOG 105	Physical Geology/Lab	_____	3/1	SCNC 101	Physical Science I/Lab
_____	3/1	BIOL 151	General Biology II/Lab	_____	4	MATH 103	College Algebra				Biology & Chemistry
_____	3/1	BIOL 220	Anatomy & Physiology I/Lab	_____	3	MATH 104	Finite Math	_____	3/1	SCNC 102	Physical Science II/Lab
_____	3/1	BIOL 221	Anatomy & Physiology II/Lab	_____	2	MATH 105	Trigonometry				Physics & Geology
_____	3/1	BIOL 250	Survey-Tropical Biology/Lab	_____	4	MATH 107	Pre-Calculus	_____	3/1	SCNC 103	Physical Science III/Lab
_____	3/1	BIOL 251	Community Ecology/Lab	_____	3	* MATH 137	Applied Algebra				Astronomy & Meteorology
_____	3/1	BOT 170	Plant Form & Diversity/Lab	_____	3	MATH 146	Applied Calculus I	_____	2/1	* SOIL 210	Intro to Soil Science/Lab
_____	3/1	CHEM 110	Survey of Chemistry/Lab	_____	4	MATH 165	Calculus I				
_____	3/1	CHEM 112	Intro to Forensic Science/Lab	_____	4	MATH 166	Calculus II				
								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.)

### Legend

- (\*) Course not approved as GERTA  
(F) Course designated as Fine Arts

Advisor: \_\_\_\_\_

Office: \_\_\_\_\_

Phone: \_\_\_\_\_

Email: \_\_\_\_\_