



Petroleum Engineering Technology

Associate in Applied Science
Degree Plan 2014-2015

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

Freshman Fall Semester

Prescribed Technical Program Requirements

ENRT	101	Intro to Energy Technology	4
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General Education Courses

Business, Math, Science & Technology

GEOL	105/105L	Physical Geology/Lab *	4
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GIS	105	Fundamentals of GIS	3
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Communications I

ENGL	110	College Composition I	3
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Total Credits 14

Sophomore Fall Semester

Prescribed Technical Program Requirements

ENRT	105	Safety, Health & the Environment	3
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GIS	250	Petroleum Applications in GIS	1
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PET	121	Petroleum Data Management I	3
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PET	131	Exploration & Production	3
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PET	251	Well Completions	3
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Total Credits 13

Summer Semester

Electives (Select one course.) **

PET	197	Cooperative Education/Internship	3
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1.

Total Credits 3

Certificate of Completion in Geographic Information Systems can be achieved with the addition of:

GIS	201	Advanced GIS Applications	3
GEOG	121/121L	Physical Geography/Lab	4

Freshman Spring Semester

Prescribed Technical Program Requirements

ENGR	101	Graphical Communications	3
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GIS	107	GIS Applications	3
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PET	115/115L	Petroleum Geology/Lab	4
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MATH	105	Trigonometry ***	2
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General Education Course

Communications II (Select one course.)

ENGL	120	College Composition II	3
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ENGL	125	Intro to Professional Writing	3
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Total Credits 15

Sophomore Spring Semester

Prescribed Technical Program Requirements

PET	221	Petroleum Data Management II	3
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PET	241	Principles of Reservoir Engineering	3
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PET	280	Project Management in Petroleum	3
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PROP	239	Gas Processing	3
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General Education Course

Arts & Humanities/Social & Behavioral Sciences

ECON	201	Principles of Microeconomics	3
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Total Credits 15

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

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

*** Math 103 is not a required program course, but is a prerequisite for MATH 105.

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	3		HIST 101	3		POLS 116
		Intro to the Visual Art			Western Civilization I			State & Local Government
3		ART 122	3		HIST 102	3		POLS 220
		Two Dimensional Design			Western Civilization II			International Politics
3		ART 124	3		HIST 103	3		PSYC 111
		Three Dimensional Design			United States to 1877			Intro to Psychology
3		ART 130	3		HIST 104	3	*	PSYC 211
		Drawing I			United States since 1877			Intro to Behavior Modification
3		ART 210	3		HIST 220	3		PSYC 250
		Art History I			North Dakota History			Developmental Psychology
3		ART 211	3		HIST 222	3		PSYC 270
		Art History II			History of the Western Frontier			Abnormal Psychology
3		ART 220	3		HIST 224	3		RELS 120
		Painting I			American Studies I			Religion in America
3		ART 221	3		HIST 225	3		RELS 201
		Painting II			American Studies II			Life & Letters of Paul
3		ART 230	1-3	*	HIST 243	3		RELS 203
		Drawing II			Historical Investigations			World Religions
3		ART 250	3		HUMS 210	3		RELS 220
		Ceramics I			Integrated Cultural Studies			Old Testament
3		ART 251	1-4		HUMS 211	3		RELS 230
		Ceramics II			Integrated Cultural Excursion			New Testament
2		ART 265	2		HUMS 212	3		SOC 110
		Sculpture I			Integrated Cultural Enrichment			Intro to Sociology
2		ART 266	3		MUSC 100	3		SOC 115
		Sculpture II			Music Appreciation			Social Problems
3		CJ 201	1		MUSC 117	3		SOC 220
		Intro to Criminal Justice			Concert Choir			Family
3		COMM 211	1		MUSC 118	3		SOC 221
		Oral Interpretation			Chamber Choir			Minority Relations
3	*	COMM 212	1		MUSC 121	3		SOC 235
		Interpersonal Communications			String Ensemble			Cultural Diversity
3		ECON 105	1		MUSC 132	3		SOC 251
		Elements of Economics			Wind Ensemble			Gerontology
3		ECON 201	1		MUSC 133	3		SOC 252
		Principles of Microeconomics			Woodwind Ensemble I			Criminology
3		ECON 202	1		MUSC 134	3		SOC 275
		Principles of Macroeconomics			Woodwind Ensemble II			American Indian Studies
3		ENGL 211	1		MUSC 135	4		SPAN 101
		Intro to Creative Writing			Brass Ensemble I			First Year Spanish I
3		ENGL 221	1		MUSC 136	4		SPAN 102
		Intro to Drama			Brass Ensemble II			First Year Spanish II
3		ENGL 222	1		MUSC 137	4		SPAN 201
		Intro to Poetry			Jazz Ensemble			Second Year Spanish I
3		ENGL 233	1	*	MUSC 138	4		SPAN 202
		Fantasy & Science Fiction			Percussion Ensemble			Second Year Spanish II
3		ENGL 236	1		MUSC 145	3		SWK 256
		Women & Literature			Applied Music			Development of Social Welfare
3		ENGL 238	1		MUSC 146	3		THEA 110
		Children's Literature			Applied Music - Major			Intro to Theatre Arts
3		ENGL 251	3		PHIL 101	3		THEA 161
		British Literature I			Intro to Philosophy			Acting I
3		ENGL 252	3		PHIL 210	3		THEA 261
		British Literature II			Ethics			Acting II
3		ENGL 261	3		PHIL 220			
		American Literature I			Intro to Logic			
3		ENGL 262	3		PHIL 250			
		American Literature II			Philosophy in Cinema			
3		ENGL 278	3		POLS 115			
		Alternative Literature			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
_____	3/1		BIOL 220	Anatomy & Physiology I/Lab	_____	3	* GIS 107	GIS Applications	_____			Biology & Chemistry
_____	3/1		BIOL 221	Anatomy & Physiology II/Lab	_____	4	MATH 103	College Algebra	_____	3/1	SCNC 102	Physical Science II/Lab
_____	3/1		BIOL 250	Survey-Tropical Biology/Lab	_____	3	MATH 104	Finite Math	_____			Physics & Geology
_____	3/1		BIOL 251	Community Ecology/Lab	_____	2	MATH 105	Trigonometry	_____	3/1	SCNC 103	Physical Science III/Lab
_____	3/1		BOT 170	Plant Form & Diversity/Lab	_____	4	MATH 107	Pre-Calculus	_____			Astronomy & Meteorology
_____	3	*	BUSN 120	Fundamentals of Business	_____	3	* MATH 137	Applied Algebra	_____	2/1	* SOIL 210	Intro to Soil Science/Lab

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.