



# Petroleum Engineering Technology

Associate in Applied Science

Prescribed Technical Program Total	42
General Education Total	15
Elective	3
<b>Total Degree Credits</b>	<b>60</b>

## 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
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GEOG	121/121L	Physical Geography/Lab	4
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## 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

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.

\*\* Students must have PET as their program of study in Campus Connection to proceed into this course.

\*\*\* The internship is optional but must be replaced by 3 credit hours of elective credit if not taken.

\*\*\*\* Math 103 is not a required program course, but is a pre-requisite for Math 105

# Associate in Applied Science (AAS)

## Degree Checklist

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| <input type="checkbox"/> Earned a minimum of 15 institutional credit (BSC only)      | <input type="checkbox"/> Earned a minimum of 3 credits in ENGL 120, 121, 125 or COMM 110               |
| <input type="checkbox"/> Earned a minimum 2.00 institutional GPA (BSC only)          | <input type="checkbox"/> Earned a minimum of 3 credits in Arts & Humanites/Social & Behavioral Science |
| <input type="checkbox"/> Earned a minimum 2.00 cumulative GPA (BSC + Transfer)       | <input type="checkbox"/> Earned a minimum of 6 credits in Business, Math, Science & Technology         |
| <input type="checkbox"/> Earned a minimum 2.00 GPA in a prescribed technical program | <input type="checkbox"/> Earned a minimum of 60 total credits  |
| <input type="checkbox"/> Completed prescribed technical program requirements         | <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.	ENGL 110	College Composition I	Transfer Course
_____	3			_____

#### Communications II

(3 Credits) - ENGL 120, 121, 125, COMM 110 (Select one)

Gr.	Cr.	ENGL 120	College Composition II	Gr.	Cr.	ENGL 121	Honors Composition II	Gr.	Cr.	ENGL 125	Intro to Professional Writing
_____	3			_____	3			_____	3		
_____	3	COMM 110	Fund. of Public Speaking							Transfer Course	_____

### Category II: ARTS & HUMANITES/SOCIAL & BEHAVIORAL SCIENCES

(3 Credits)

Gr.	Cr.	ART 110	Intro to the Visual Art	Gr.	Cr.	HIST 101	Western Civilization I	Gr.	Cr.	PSYC 111	Intro to Psychology
_____	3	ART 122	Two Dimensional Design	_____	3	HIST 102	Western Civilization II	_____	3	* PSYC 211	Intro to Behavior Modification
_____	3	ART 124	Three Dimensional Design	_____	3	HIST 103	United States to 1877	_____	3	PSYC 250	Developmental Psychology
_____	3	ART 130	Drawing I	_____	3	HIST 104	United States since 1877	_____	3	PSYC 270	Abnormal Psychology
_____	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	ART 220	Painting I	_____	3	HIST 224	American Studies I	_____	3	RELS 203	World Religions
_____	3	ART 221	Painting II	_____	3	HIST 225	American Studies II	_____	3	RELS 220	Old Testament
_____	3	ART 230	Drawing II	_____	1-3	* HIST 243	Historical Investigations	_____	3	RELS 230	New Testament
_____	3	ART 250	Ceramics I	_____	3	HUMS 210	Integrated Cultural Studies	_____	3	SOC 110	Intro to Sociology
_____	3	ART 251	Ceramics II	_____	1-4	HUMS 211	Integrated Cultural Excursion	_____	3	SOC 115	Social Problems
_____	2	ART 265	Sculpture I	_____	2	HUMS 212	Integrated Cultural Enrichment	_____	3	SOC 220	Family
_____	2	ART 266	Sculpture II	_____	3	MUSC 100	Music Appreciation	_____	3	SOC 221	Minority Relations
_____	3	CJ 201	Intro to Criminal Justice	_____	1	MUSC 117	Concert Choir	_____	3	SOC 235	Cultural Diversity
_____	3	COMM 211	Oral Interpretation	_____	1	MUSC 118	Chamber Choir	_____	3	SOC 251	Gerontology
_____	3	* COMM 212	Interpersonal Communications	_____	1	MUSC 121	String Ensemble	_____	3	SOC 252	Criminology
_____	3	ECON 105	Elements of Economics	_____	1	MUSC 132	Wind Ensemble	_____	3	SOC 275	American Indian Studies

_____	3	ECON 201	Principles of Microeconomics	_____	1	MUSC 133	Woodwind Ensemble I	_____	4	SPAN 101	First Year Spanish I
_____	3	ECON 202	Principles of Macroeconomics	_____	1	MUSC 134	Woodwind Ensemble II	_____	4	SPAN 102	First Year Spanish II
_____	3	ENGL 211	Intro to Creative Writing	_____	1	MUSC 135	Brass Ensemble I	_____	4	SPAN 201	Second Year Spanish I
_____	3	ENGL 221	Intro to Drama	_____	1	MUSC 136	Brass Ensemble II	_____	4	SPAN 202	Second Year Spanish II
_____	3	ENGL 222	Intro to Poetry	_____	1	MUSC 137	Jazz Ensemble	_____	3	SWK 256	Development of Social Welfare
_____	3	ENGL 233	Fantasy & Science Fiction	_____	1	* MUSC 138	Percussion Ensemble	_____	3	THEA 110	Intro to Theatre Arts
_____	3	ENGL 236	Women & Literature	_____	1	MUSC 145	Applied Music	_____	3	THEA 161	Acting I
_____	3	ENGL 238	Children's Literature	_____	1	MUSC 146	Applied Music - Major	_____	3	THEA 261	Acting II
_____	3	ENGL 251	British Literature I	_____	3	PHIL 101	Intro to Philosophy				
_____	3	ENGL 252	British Literature II	_____	3	PHIL 210	Ethics	Transfer Courses			
_____	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	_____			
_____	3	ENGL 279	World Autobiography	_____	3	POLS 116	State & Local Government	_____			
_____				_____	3	POLS 220	International Politics	_____			

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

(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	GEOL 102	Historical Geology/Lab	_____	4/1	PHYS 252	University Physics II/Lab
_____	3/1		BIOL 150	General Biology I/Lab	_____	3/1	GEOL 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				
_____	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				
_____	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				
_____	3	*	BUSN 120	Fundamentals of Business	_____	3	* MATH 137	Applied Algebra	_____	2/1	* SOIL 210	Intro to Soil Science/Lab

Transfer Courses

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## 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

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

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

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

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