



ASSOCIATE OF APPLIED SCIENCE

PETROLEUM TECHNOLOGY – PIPELINE TECHNICIAN MAJOR

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing. Refer to Policy No. 3357:15-13-28.

2021 Catalog

Effective Summer 2020

4315

Engineering Technologies Division

Oil and Gas Technology Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
EST230	Electrical Circuits and Devices [^]	4	(MTH025 or Proficiency) or MTH107	
MST221	Mechanical Drive Components	3		
PET132	Petroleum Instrumentation	3		
ARL234	Gas Compression and Flow Dynamics	3		
ARL239	Large Line Unit Compressor Assembly	3		
PET102	Introduction to Supervisory Control and Data Acquisition (SCADA)	2		
PET131	Corrosion Basics	3		
PET135	Measurement and Basic Pipeline Operations	3		
AIT134	Preventive and Predictive Maintenance	3	MST125 and MST221	
ENV121	Regulations and Compliance	3		
	Total	30		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>	
PET101	Introduction to the Petroleum Industry	3		
ITD122	Computer Applications for Professionals [^]	3	ITD100 or Proficiency	
CHM101	Introduction to Chemistry ^{^▲}	4	(MTH022 or MTH023 or Proficiency) or MTH105 or MTH107	
MTH107 or MTH125	Industrial Math [^] or College Algebra ^{^Ω}	3 or 4	<i>Check for prerequisites</i>	
ENG124	College Composition [^]	3	Co-ENG024 or Co-ENG011 or Proficiency	
ENV221	OSHA 40-Hour HAZWOPER	2		
COM121 or COM122 or COM123	Effective Speaking or Interpersonal Communication or Small Group Communication [^]	3 or 3 or 3	IDS102 or Proficiency	
MST121 or DET125	Blueprint Reading or Basic AutoCAD	2 or 3		
MST125	Basic Pumps	3		
	<i>Select one (1) Social & Behavioral Sciences or Arts & Humanities Elective from the list below^l</i>	3	<i>Check for prerequisites</i>	
	Total	30-32		
TOTAL CREDIT HOURS		60-62		

See footnotes on next page.

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PART-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for part-time associate degree students who plan to finish in eight semesters.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
MTH107	Industrial Math^	3	
or	or	or	<i>Check for prerequisites</i>
MTH125	College Algebra^Ω	4	
PET101	Introduction to the Petroleum Industry	<u>3</u>	
		7-8	
<u>Second Semester</u>			
EST230	Electrical Circuits and Devices^	4	(MTH025 or Proficiency) or MTH107
ARL234	Gas Compression and Flow Dynamics	<u>3</u>	
		7	
<u>Third Semester</u>			
PET131	Corrosion Basics	3	
PET135	Measurement and Basic Pipeline Operations	<u>3</u>	
		6	
<u>Fourth Semester</u>			
MST125	Basic Pumps	3	
ARL239	Large Line Unit Compressor Assembly	3	
	<i>Select one (1) Social & Behavioral Sciences or Arts & Humanities Elective from the list below¹</i>	<u>3</u>	<i>Check for prerequisites</i>
		9	
<u>Fifth Semester</u>			
MST221	Mechanical Drive Components	3	
ITD122	Computer Applications for Professionals^	<u>3</u>	ITD100 or Proficiency
		6	
<u>Sixth Semester</u>			
PET102	Introduction to Supervisory Control and Data Acquisition (SCADA)	2	
ENV121	Regulations and Compliance	3	
PET132	Petroleum Instrumentation	<u>3</u>	
		8	
<u>Seventh Semester</u>			
AIT134	Preventive and Predictive Maintenance	3	MST125 and MST221
CHM101	Introduction to Chemistry^▲	4	(MTH022 or MTH023 or Proficiency) or MTH105 or MTH107
ENV221	OSHA 40-Hour HAZWOPER	<u>2</u>	
		9	
<u>Eighth Semester</u>			
COM121	Effective Speaking	3	
or	or	or	
COM122	Interpersonal Communication	3	
or	or	or	
COM123	Small Group Communication^	3	IDS102 or Proficiency
ENG124	College Composition^	3	Co-ENG024 or Co-ENG011 or Proficiency
MST121	Blueprint Reading	2	
or	or	or	
DET125	Basic AutoCAD	<u>3</u>	
		8-9	
	TOTAL CREDITS	60-62	

^Based on SSC placement scores

^^To promote student success, this course should be taken in the first semester

ΩMTH125 should be taken by students planning to transfer to a four-year institution

▲Because of strong emphasis on science in this major, applicants must have successfully completed Chemistry and Biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

¹Social & Behavioral Sciences or Arts & Humanities electives: BUS122, BUS221, BUS222, ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, HIS221, HIS222, PHL122 (recommended), PSC121, PSY121, PSY123, PSY124, PSY220, PSY221, SOC121, SOC122, SOC123, SOC221, SOC225