

 	ONE-YEAR CERTIFICATE PETROLEUM INSTRUMENTATION AND ELECTRONICS TECHNICIAN	2021-22 Catalog Effective Summer 2021
	<i>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.</i>	4325

Engineering Technologies Division

Oil and Gas Technology Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
MST221	Mechanical Drive Components	3		
EET227	PLCs and Industrial Controls I	3	EET120 or EST230	
EST230	Electrical Circuits and Devices [^]	4	(MTH025 or Proficiency) or MTH107	
ARL234	Gas Compression and Flow Dynamics	3		
PET102	Introduction to Supervisory Control and Data Acquisition (SCADA)	2		
PET132	Petroleum Instrumentation	3		
PET141	Production Operations	3		
PET142	Artificial Lift	3		
MST121 or DET125	Blueprint Reading or Basic AutoCAD	2 or 3		
	Total	26-27		
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		
ENV221	OSHA 40-Hour HAZWOPER	2		
	Total	6		
	TOTAL CREDIT HOURS	32-33		

[^]Based on SSC placement scores

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

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FULL-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 students seeking a one-year certificate.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
MST221	Mechanical Drive Components	3	
ARL234	Gas Compression and Flow Dynamics	3	
PET101	Introduction to the Petroleum Industry	3	
EST230	Electrical Circuits and Devices^	4	(MTH025 or Proficiency) or MTH107
PET102	Introduction to Supervisory Control and Data Acquisition (SCADA)	<u>2</u>	
		16	
 <u>Second Semester</u>			
EET227	PLCs and Industrial Controls I	3	EET120 or EST230
PET132	Petroleum Instrumentation	3	
MST121	Blueprint Reading	2	
or	or	or	
DET125	Basic AutoCAD	3	
PET141	Production Operations	3	
PET142	Artificial Lift	3	
ENV221	OSHA 40-Hour HAZWOPER	<u>2</u>	
		16-17	
	TOTAL CREDITS	32-33	

^Based on SSC placement scores

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