
 <b>Stark State</b> COLLEGE  	<b>ONE-YEAR CERTIFICATE</b> <b>INDUSTRIAL PROCESS OPERATION</b> <b>TECHNOLOGY</b> <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>	<b>2021 Catalog</b> Effective Summer 2020
		<b>4311</b>

Engineering Technologies Division

Oil and Gas Technology Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
MST134	Hydraulic and Pneumatic Systems <sup>^</sup>	6	MTH022 or MTH023 or Proficiency	
MST221	Mechanical Drive Components	3		
PET132	Petroleum Instrumentation	3		
EST230	Electrical Circuits and Devices <sup>^</sup>	4	(MTH025 or Proficiency) or MTH107	
EET227	PLCs and Industrial Controls I	3	EET120 or EST230	
ARL234	Gas Compression and Flow Dynamics	3		
ARL239	Large Line Unit Compressor Assembly	3		
	<b>Total</b>	<b>25</b>		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar <sup>^^</sup>	1	<i>Take first semester</i>	
PET101	Introduction to the Petroleum Industry	3		
ENV221	OSHA 40-Hour HAZWOPER	2		
MST121 or DET125	Blueprint Reading or Basic AutoCAD	2 or 3		
	<b>Total</b>	<b>8-9</b>		
	<b>TOTAL CREDIT HOURS</b>	<b>33-34</b>		

<sup>^</sup>Based on SSC placement scores

<sup>^^</sup>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>
ARL234	Gas Compression and Flow Dynamics	3	
MST134	Hydraulic and Pneumatic Systems^	6	MTH022 <b>or</b> MTH023 <b>or</b> Proficiency
PET101	Introduction to the Petroleum Industry	3	
EST230	Electrical Circuits and Devices^	<u>4</u>	(MTH025 or Proficiency) <b>or</b> MTH107
		<b>17</b>	
 <u>Second Semester</u>			
ENV221	OSHA 40-Hour HAZWOPER	2	
EET227	PLCs and Industrial Controls I	3	EET120 <b>or</b> EST230
PET132	Petroleum Instrumentation	3	
ARL239	Large Line Unit Compressor Assembly	3	
MST221	Mechanical Drive Components	3	
MST121	Blueprint Reading	2	
<b>or</b>	<b>or</b>	<b>or</b>	
DET125	Basic AutoCAD	<u>3</u>	
		<b>16-17</b>	
	<b>TOTAL CREDITS</b>	<b>33-34</b>	

^Based on SSC placement scores.

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