
 Stark State COLLEGE 	ONE-YEAR CERTIFICATE INDUSTRIAL PROCESS OPERATION TECHNOLOGY <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>	2021-22 Catalog Effective Summer 2021
	<h1 style="margin: 0;">4311</h1>	

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 [^]	4	MTH022 or MTH023 or Proficiency	
MST221	Mechanical Drive Components	3		
PET132	Petroleum Instrumentation	3		
EST230	Electrical Circuits and Devices [^]	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		
	Total	23		
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		
MST121 or DET125	Blueprint Reading or Basic AutoCAD	2 or 3		
	Total	8-9		
	TOTAL CREDIT HOURS	31-32		

[^]Based on SSC placement scores

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

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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 students who plan to finish in four semesters.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisite</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
EST230	Electrical Circuits and Devices^	4	(MTH025 or Proficiency) or MTH107
PET101	Introduction to the Petroleum Industry	<u>3</u>	
		8	
<u>Second Semester</u>			
MST221	Mechanical Drive Components	3	
ARL234	Gas Compression and Flow Dynamics	3	
ARL239	Large Line Unit Compressor Assembly	<u>3</u>	
		9	
<u>Third Semester</u>			
MST134	Hydraulic and Pneumatic Systems^	4	MTH022 or MTH023 or Proficiency
MST121	Blueprint Reading	2	
or	or	or	
DET125	Basic AutoCAD	<u>3</u>	
		6-7	
<u>Fourth Semester</u>			
PET132	Petroleum Instrumentation	3	
EET227	PLCs and Industrial Controls I	3	EET120 or EST230
ENV221	OSHA 40-Hour HAZWOPER	<u>2</u>	
		8	
	TOTAL CREDITS	31-32	

^Based on SSC placement scores

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