GLOBAL ENERGY - COE 2020 - 2021

ELECTRONICS ENGINEERING TECHNOLOGY
Electronics Engineering Technology - Biomedical Electronics Specialization - AAS
Instrumentation & Controls Engineering Technology
Instrumentation & Controls Engineering Technology - AAS
PETROLEUM ENGINEERING TECHNOLOGY
Petroleum Engineering Technology - AAS
PROCESS TECHNOLOGY
Process Technology - AAS

ELECTRONICS ENGINEERING TECHNOLOGY

ELECTRONICS ENGINEERING TECHNOLOGY - BIOMEDICAL ELECTRONICS SPECIALIZATION

Associate of Applied Science		SCH
	FIRST YEAR	
First Semester -	Fall	
EDUC 1300	Learning Framework	3
MATH 1314	College Algebra	3
CETT 1321	Electronic Fabrication	3
CPMT 1449	Computer Networking Technology	4
	Semester Total	13
Second Semest	er - Spring	
CETT 1403	DC Circuits	4
CETT 1425	Digital Fundamentals	4
MATH 1316	Plane Trigonometry	3
XXXX #3## ¹	Social/Behavioral Sciences Elective	3
	Semester Total	14
Third Semester	- Summer	
PHYS 1401	College Physics I (Lecture & Lab)	4
XXXX #3##¹	Humanities/Fine Arts Elective	3
	Semester Total	7
	SECOND YEAR	
First Semester -	Fall	
CETT 1405	AC Circuits	4
CETT 1429	Solid State Devices	4
BIOM 1309	Applied Biomedical Equipment Technology	3
CETT 1431	Programming for Discrete Electronic Devices	4
	Semester Total	15
Second Semester - Spring		
BIOM 2331	Biomedical Clinical Instrumentation	3
HPRS 1206	Essentials of Medical Terminology	2
BIOM 2389	Internship - Biomedical Technology/Technician	3
CETT 1357	Linear Integrated Circuits (Capstone)	3
	Semester Total	11
Total Minimum Credits for the AAS Degree		60

ELECTRONICS ENGINEERING TECHNOLOGY - COMPUTER ENGINEERING SPECIALIZATION

Associate of Applied Science		SCH
	FIRST YEAR	
First Semester	- Fall	
EDUC 1300	Learning Framework	3
ENGL 1301	Composition I	3
MATH 1314	College Algebra	3
CETT 1321	Electronic Fabrication	3
CPMT 1449	Computer Networking Technology	4
	Semester Total	16
Second Semest	er - Spring	
CETT 1403	DC Circuits	4
CETT 1425	Digital Fundamentals	4
MATH 1316	Plane Trigonometry	3
XXXX #3##1	Social/Behavioral Sciences Elective	3
	Semester Total	14
Third Semester	- Summer	
PHYS 1401	College Physics I (Lecture & Lab)	4
	Semester Total	4
	SECOND YEAR	
First Semester	- Fall	
CETT 1405	AC Circuits	4
CETT 1429	Solid State Devices	4
CETT 1431	Programming for Discrete Electronic Devices	4
XXXX #3##1	Humanities/Fine Arts Elective	3
	Semester Total	15
Second Semester - Spring		
XXXX #4##²	Program Approved Elective	4
XXXX #4##²	Program Approved Elective	4
CETT 1357	Linear Integrated Circuits (Capstone)	3
	Semester Total	11
Total Minimum	Credits for the AAS Degree	60
	¹ A list of electives appears in the Core Curriculum section of this catalog.	

² Any CETT or CPMT elective.

ELECTRONICS ENGINEERING TECHNOLOGY - BASIC ELECTRONICS

Certificate - Level 2		SCH
First Semester	- Fall	
EDUC 1300	Learning Framework	3
MATH 1314	College Algebra	3
CETT 1321	Electronic Fabrication	3
CPMT 1449	Computer Networking Technology	4
	Semester Total	13
Second Semest	ter - Spring	
CETT 1403	DC Circuits	4
CETT 1425	Digital Fundamentals	4
MATH 1316	Plane Trigonometry	3
	Semester Total	11
Third Semester	r - Summer	
CETT 1405	AC Circuits	4
CETT 1429	Solid State Devices (Capstone)	4
CPMT 1303	Introduction to Computer Technology	3
XXXX #4##¹	Program Approved Elective	4
XXXX #4##¹	Program Approved Elective	4
	Semester Total	19
Total Minimum	Total Minimum Credits for the Level 2 Certificate	

ELECTRONICS ENGINEERING TECHNOLOGY - COMPUTER SERVICING/NETWORKS

Certificate -	Level 1	SCH
First Semester	r - Fall	
CPMT 1303	Introduction to Computer Technology	3
CPMT 1411	Introduction to Computer Maintenance OR	
XXXX #4## ¹	Program Approved Elective	4
	Semester Total	7
Second Semes	ster - Spring	
CETT 1321	Electronic Fabrication	3
TECM 1301	Industrial Mathematics OR	
XXXX #3##1	Program Approved Elective	3
CPMT 1449	Computer Networking Technology (Capstone)	4
	Semester Total	10
Total Minimur	n Credits for the Level 1 Certificate	17
	14 CETT COME I II TECM III	

INSTRUMENTATION & CONTROLS ENGINEERING TECHNOLOGY

INSTRUMENTATION & CONTROLS ENGINEERING TECHNOLOGY

Associate of Applied Science		SCH
	FIRST YEAR	
First Semester	- Fall	
EDUC 1300	Learning Framework	3
PTAC 1302	Introduction To Process Technology	3
PTAC 1308	Safety, Health, & Environment I	3
ENGL 1301	Composition I	3
MATH 1314	College Algebra	3
	Semester Total	15
Second Semes	ter - Spring	
INTC 1356	Instrumentation Calibration	3
CETT 1403	DC Circuits	4
MATH 1316	Plane Trigonometry	3
CETT 1425	Digital Fundamentals	4
CPMT 1449	Computer Networking Technology	4
	Semester Total	18
	SECOND YEAR	
First Semester	- Fall	
INTC 1441	Principles of Automatic Control	4
INTC 1343	Application of Industrial Automatic Controls	3
CETT 1405	AC Circuits	4
PHYS 1401	College Physics I (Lecture & Lab)	4
	Semester Total	15
Second Semes	ter - Spring	
XXXX #3## ¹	Humanities/Fine Arts Elective	3
XXXX #3## ¹	Social/Behavioral Sciences Elective	3
RBTC 1301	Programmable Logic Controllers	3
INTC 2330	Instrumentation Systems Troubleshooting OR	
INTC 2336	Distributed Control & Programmable Logic (Capstone)	3
	Semester Total	12
Total Minimum Credits for the AAS Degree		60

INSTRUMENTATION & CONTROLS ENGINEERING TECHNOLOGY

Certificate -	Level 2	SCH
First Semeste	r - Fall	
EDUC 1300	Learning Framework	3
PTAC 1302	Introduction To Process Technology	3
PTAC 1308	Safety, Health, & Environment I	3
MATH 1314	College Algebra	3
INTC 1356	Instrumentation Calibration	3
	Semester Total	15
Second Seme	ster - Spring	
INTC 1441	Principles of Automatic Control	4
MATH 1316	Plane Trigonometry	3
CETT 1425	Digital Fundamentals	4
CETT 1403	DC Circuits	4
	Semester Total	15
Third Semeste	er - Summer	
INTC 1343	Application of Industrial Automatic Controls	3
RBTC 1301	Programmable Logic Controllers	3
INTC 2330	Instrumentation Systems Troubleshooting (Capstone)	3
XXXX #4##¹	Program Approved Elective	4
	Semester Total	13
Total Minimu	m Credits for the Level 2 Certificate	43

¹Consult with an advisor to determine the appropriate elective.

PETROLEUM ENGINEERING TECHNOLOGY

PETROLEUM ENGINEERING TECHNOLOGY

Associate of	Applied Science	SCH
	FIRST YEAR	
First Semester	- Fall	
EDUC 1300	Learning Framework	3
PTRT 1301	Introduction to Petroleum Industry	3
MATH 1314	College Algebra	3
CPMT 1303	Introduction to Computer Technology	3
	Semester Total	12
Second Semest	ter - Spring	
PTRT 1470	Petroleum Data Management I - Exploration	4
PTRT 1370	Petroleum Geology	3
ENGL 1301	Composition I	3
PTRT 1313	Industrial Safety	3
	Semester Total	13
Third Semester	r - Summer	
PTRT 1472	Petroleum Data Management II - Drilling & Production	4
	Semester Total	4
	SECOND YEAR	
First Semester	- Fall	
PTRT 1473	Exploration & Production II	4
MATH 1325	Calculus for Business & Social Sciences	3
PTRT 2370	Petroleum Operations	3
XXXX #2## ¹	Program Approved Elective	2
	Semester Total	12
Second Semest	ter - Spring	
PTRT 2331	Well Completions	3
XXXX #3## ²	Social/Behavioral Sciences Elective	3
PTRT 2323	Natural Gas Production	3
XXXX #3## ²	Humanities/ Fine Arts Elective	3
	Semester Total	12
Third Semester		
PTRT 2372	Internship-Petroleum Technology/Technician	3
PTRT 2470	Petroleum Data Management III - Facilities & Performance (Capstone)	4
	Semester Total	7
Total Minimum	Credits for the AAS Degree	60

¹Consult with an advisor to determine the appropriate elective.

² A list of electives appears in the Core Curriculum section of this catalog.

PETROLEUM ENGINEERING TECHNOLOGY

Certificate - Level 2		SCH
First Semester -	Fall	
EDUC 1300	Learning Framework	3
PTRT 1301	Introduction to Petroleum Industry	3
MATH 1314	College Algebra	3
PTRT 1313	Industrial Safety	3
CPMT 1303	Introduction to Computer Technology	3
	Semester Total	15
Second Semeste	er - Spring	
ENGL 1301	Composition I	3
PTRT 1470	Petroleum Data Management I - Exploration	4
MATH 1325	Calculus for Business & Social Sciences	3
PTRT 1471	Exploration & Production I	4
PTRT 1370	Petroleum Geology	3
	Semester Total	17
Third Semester	- Summer	
PTRT 1473	Exploration & Production II	4
PTRT 1472	Petroleum Data Management II - Drilling & Production	4
PTRT 2370	Petroleum Operations (Capstone)	3
	Semester Total	11
Total Minimum	Credits for the Level 2 Certificate	43

PROCESS TECHNOLOGY

PROCESS TECHNOLOGY

Associate of	Applied Science	SCH	
FIRST YEAR			
First Semester	- Fall		
EDUC 1300	Learning Framework	3	
PTAC 1302	Introduction To Process Technology	3	
ENGL 1301	Composition I	3	
MATH 1314	College Algebra	3	
PTAC 1308	Safety, Health, & Environment I	3	
XXXX #3## ¹	Social/Behavioral Sciences Elective	3	
	Semester Total	18	
Second Semes	ter - Spring		
SCIT 1418	Applied Physics OR		
PHYS 1401	College Physics I (Lecture & Lab)	4	
SCIT 1414	Applied General Chemistry I OR		
CHEM 1311	General Chemistry I (Lecture) AND	3	
CHEM 1111	General Chemistry I (Lab)	1	
PTAC 1410	Process Technology I - Equipment	4	
PTAC 1332	Process Instrumentation I	3	
	Semester Total	15	
	SECOND YEAR		
First Semester	- Fall		
SPCH 1311	Introduction to Speech Communication	3	
PTAC 2314	Principles of Quality	3	
PTAC 2420	Process Technology II - Systems	4	
PTAC 1354	Industrial Processes	3	
	Semester Total	13	
Second Semes	ter - Spring		
PTAC 2438	Process Technology III - Operations (Capstone)	4	
PTAC 1350	Industrial Economics OR		
PTAC 2336	Process Instrumentation II	3	
XXXX #3## ¹	Humanities/Fine Arts Elective	3	
PTAC 2446	Process Troubleshooting	4	
	Semester Total	14	
Total Minimun	n Credits for the AAS Degree	60	

 $^{1}\mathrm{A}$ list of electives appears in the Core Curriculum section of this catalog.

PROCESS TECHNOLOGY - PROCESS OPERATOR

Certificate - Level 2		SCH
First Semeste	er - Fall	
EDUC 1300	Learning Framework	3
PTAC 1302	Introduction To Process Technology	3
PTAC 1308	Safety, Health, & Environment I	3
MATH 1314	College Algebra	3
	Semester Total	12
Second Seme	ester - Spring	
PTAC 1410	Process Technology I - Equipment	4
PTAC 1332	Process Instrumentation I	3
PTAC 1354	Industrial Processes	3
SCIT 1414	Applied General Chemistry I OR	
CHEM 1311	General Chemistry I (Lecture) AND	3
CHEM 1111	General Chemistry I (Lab)	1
	Semester Total	14
Third Semest	er - Summer	
PTAC 2420	Process Technology II - Systems (Capstone)	4
PTAC 1350	Industrial Economics OR	
PTAC 2336	Process Instrumentation II	3
PTAC 2314	Principles of Quality	3
SCIT 1418	Applied Physics OR	
PHYS 1401	College Physics I (Lecture & Lab)	4
	Semester Total	14
Total Minimu	ım Credits for the Level 2 Certificate	40