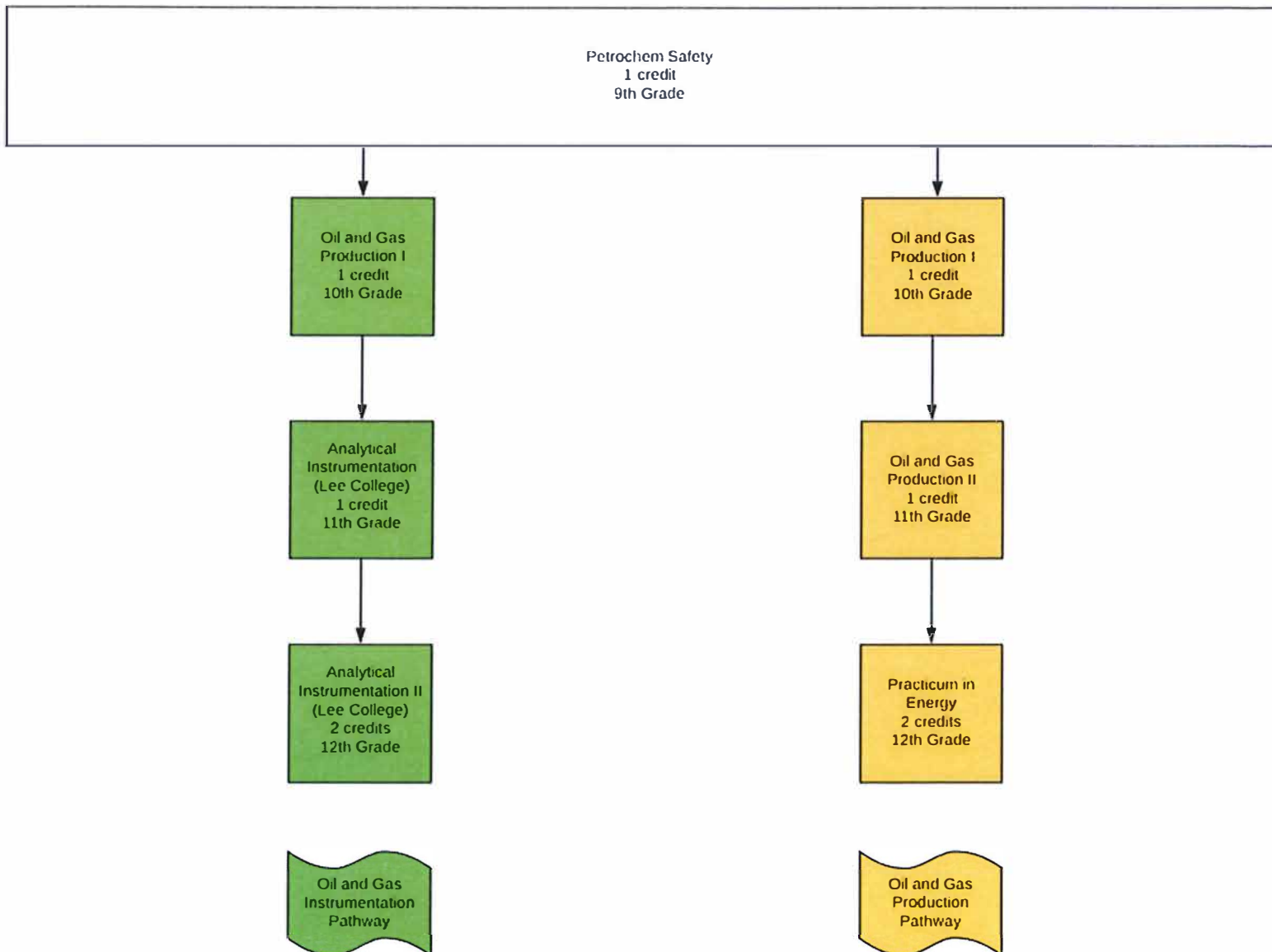




Crosby ISD CTE Programs of Study 2019 - 2020

Endorsement: Business and Industry CTE Cluster: Energy





Endorsement: Business and Industry

CTE Cluster: Energy

	Oil and Gas Instrumentation	Oil and Gas Production
9th Grade	Petrochem Safety (1 credit)	Petrochem Safety (1 credit)
10th Grade	Oil and Gas Production I (1 credit)	Oil and Gas Production I (1 credit)
11th Grade	Analytical Instrumentation I (1 credits)	Oil and Gas Production II (1 credit)
12th Grade	Analytical Instrumentation II (2 credits)	Practicum in Energy (2 credits)
Additional Courses		
Certifications	Osha 30 hour	Osha 30 hour



Crosby ISD CTE Programs of Study 2019 - 2020

CTE Cluster: Energy Course Descriptions

9th Grade Options:

- **Petrochemical Safety Health and Environment** provides opportunities for students to learn about environmentally sound work habits within the petrochemical industry.
Credit: 1 Prerequisite: Oil and Gas Production I

10th Grade Options:

- **Oil and Gas Production I** introduces students to specific career opportunities and skills, abilities, tools, certification, and safety measures associated with each career. Students will also understand components, systems, equipment, and production and safety regulations associated with oil and gas wells.
Credit: 1 Prerequisite: None

11th Grade Options:

- **Oil and Gas Production II** will allow students to gain knowledge of the specific requirements for entry into post-secondary education and employment in the petroleum industry; research and discuss petroleum economics; research and discuss the modes of transportation in the petroleum industry; research and discuss environmental, health, and safety concerns; research and discuss different energy sources; and prepare for industry certification.
Credit: 1 Prerequisite: Oil and Gas Production I
- **Analytical Instrumentation I** allows students to take 6 hours of college credit at Lee College by taking the following classes:

<u>INTC 1312</u>	Instrumentation & Safety	3
<u>INTC 1307</u>	Instrumentation Test Equipment	3

Credit: 1 Prerequisite: Acceptance into the Lee College Instrumentation Program

12th Grade Options:

- **Practicum in Energy** gives students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as employment, independent study, internships, assistantships, mentorships, or laboratories. The practicum course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in the Energy Career Pathway.
Credit: 2 Prerequisite: Oil and Gas Production III
- **Analytical Instrumentation II** allows students to take 13 hours of college credit at Lee College by taking the following classes:

<u>IEIR 1302</u>	Introduction to Direct Current Circuits	3
<u>CTEC 1401</u>	Applied Petrochemical Technology	4
Math 0314	Intermediate Algebra	3
Math 1314	College Algebra	3

Credit: 2 Prerequisite: Acceptance into the Lee College Instrumentation Program and completion of the Lee College Instrumentation Program Year 1 courses