

PRIMARY RESOURCES COURSE SUMMARIES

INTRODUCTORY

PRS1010: OVERVIEW OF ALBERTA GEOLOGY

Students examine the nature and origin of Alberta's hydrocarbon and mineral resources, and their significance in society.

Prerequisite: None

PRS1020: NONRENEWABLE RESOURCES

Students examine exploration, recovery and production, refining, and reclamation technologies within a nonrenewable hydrocarbon or mineral industry.

Prerequisite: None

PRS1050: RENEWABLE RESOURCES

Students examine the general applications of one or more renewable hydrocarbon technologies and the contributions of each to sustainable resource development.

Prerequisite: None

PRS1060: CONSUMER PRODUCTS & SERVICES

Students examine the basic techniques involved in developing consumer products and/or services within a hydrocarbon or mineral industry.

Prerequisite: None

PRS1910: PRS PROJECT A

Students develop project design and management skills to extend and enhance competencies and skills in other CTS courses through contexts that are personally relevant.

Prerequisite: None

INTERMEDIATE

PRS2020: CONVENTIONAL OIL/GAS EXPLORATION

Students examine specific exploration techniques and technologies within the context of Alberta's conventional oil and/or gas deposits.

Prerequisite: None

PRS2030: NON-CONVENTIONAL HYDROCARBONS EXPLORATION

Students examine specific exploration techniques and technologies within the context of Alberta's oil sands, heavy oil or nonconventional methane.

Prerequisite: None

PRS2040: METALS/NONMETALS EXPLORATION

Students examine specific exploration techniques and technologies within the context of a metallic and/or nonmetallic mineral deposit.

Prerequisite: None

PRS2060: REFINING HYDROCARBONS

Students examine the principles and technologies involved in processing natural gas, refining crude oil, upgrading heavy oils and bitumen, or processing coal.

Prerequisite: None

PRS2070: REFINING ROCKS & MINERALS

Students examine the principles and processes involved in refining an industrial (nonmetallic) mineral or a metallic mineral.

Prerequisite: None

PRS2910: PRS PROJECT B

Students develop project design and management skills to extend and enhance competencies and skills in other CTS courses through contexts that are personally relevant.

Prerequisite: None

PRS2920: PRS PROJECT C

Students develop project design and management skills to extend and enhance competencies and skills in other CTS courses through contexts that are personally relevant.

Prerequisite: None

PRS2950: PRS INTERMEDIATE PRACTICUM

Students apply prior learning and demonstrate the attitudes, skills and knowledge required by an external organization to achieve a credential/credentials or an articulation.

Prerequisite: None

ADVANCED**PRS3020: CONVENTIONAL OIL/GAS RECOVERY & PRODUCTION**

Students examine specific recovery and production techniques within the context of Alberta's conventional oil and/or gas industry.

Prerequisite: PRS2020: Conventional Oil/Gas Exploration

PRS3030: NON-CONVENTIONAL HYDROCARBONS RECOVERY & PRODUCTION

Students examine specific recovery and production techniques within the context of Alberta's oil sands, heavy oil or coal deposits.

Prerequisite: PRS2030: Non-conventional Hydrocarbons Exploration

PRS3040: METALS/NONMETALS RECOVERY & PRODUCTION

Students examine specific recovery and production techniques within the context of a metallic and/or nonmetallic mineral deposit.

Prerequisite: PRS2040: Metals/Nonmetals Exploration

PRS3060: PETROCHEMICALS

Students investigate the conversion of hydrocarbons into consumer products within a petrochemical industry.

Prerequisite: PRS2060: Refining Hydrocarbons

PRS3070: INDUSTRIAL MATERIALS

Students investigate technologies used to convert petroleum and mineral resources into industrial (stock) materials used in secondary manufacturing processes.

Prerequisite: PRS2070: Refining Rocks & Minerals

PRS3910: PRS PROJECT D

Students develop project design and management skills to extend and enhance competencies and skills in other CTS courses through contexts that are personally relevant.

Prerequisite: None

PRS3920: PRS PROJECT E

Students develop project design and management skills to extend and enhance competencies and skills in other CTS courses through contexts that are personally relevant.

Prerequisite: None

PRS3950: PRS ADVANCED PRACTICUM

Students apply prior learning and demonstrate the attitudes, skills and knowledge required by an external organization to achieve a credential/credentials or an articulation.

Prerequisite: None