

# Bachelor of Science in Resource and Energy Engineering

Degree Plan Requirements Fall 2023 Catalog



Student Name: \_\_\_\_\_

UTA ID#: \_\_\_\_\_

In the tables below "T" is used to indicate transfer credits.

## General Education/Core Curriculum

T	Course	Hours Earned	Hours
	HIST 1301 OR 1331		3
	HIST 1302 OR 1332		3
	POLS 2311 Govt of the US		3
	POLS 2312 State and Local Govt		3
	IE 2308 Economics for Engineers		3
	Creative Arts*		3
	Language, Philosophy, and Culture*		3
	ENGL 1301 Comp 1		3
	COMS 2302 Prof & Tech Comm for Engr		3
	<b>TOTAL General Education/Core</b>		<b>27</b>

## Mathematics

T	Course	Hours Earned	Hours
	MATH 1426 Calculus I		4
	MATH 2425 Calculus II		4
	MATH 3318 Differential Equations		3
	MATH 3330 Intro to Linear Algebra		3
	<b>TOTAL Mathematics</b>		<b>14</b>

## Science

T	Course	Hours Earned	Hours
	CHEM 1465 Chemical Engineering		4
	PHYS 1443 Technical Physics 1		4
	PHYS 1444 Technical Physics 2		4
	GEOL 3340 Geology for Engineers		3
	<b>TOTAL Science</b>		<b>15</b>

## Foreign Language

\_\_\_ Earned in High School

\_\_\_ Earned in College

\_\_\_ Exempt (ESL)

\* refer to the UTA catalog ([UTA General Core Requirements](#))

\*\*Professional Level Courses

## Engineering

T	Course	Hours Earned	Hours
	ENGR 1101 or UNIV 1131		1
	EE 1311 Comp Sys & Algorithmic Sol		3
	EE 2440 Circuit Analysis		4
	EE 3317 Linear Systems **		3
	IE 3301 Engineering Probability **		3
	MAE 1312 Engineering Statics		3
	MAE 2323 Dynamics		3
	<b>TOTAL Engineering</b>		<b>20</b>

## Major: Resource & Energy Engineering

T	Course	Hours Earned	Hours
	REE 1301 Intro Resource & Energy Engr		3
	REE 1306 The Chemistry of Fuels		3
	REE 2301 Thermal Energy		3
	REE 3301 Prin of Energy Engineering **		3
	REE 3302 Sustainable Energy Systems **		3
	REE 3303 Petroleum & Gas Engr **		3
	REE 3310 Data Anal & Visualization **		3
	REE 4301 Energy Systems Modeling **		3
	REE 4302 Smart Grid **		3
	REE 4303 Mgmt of Energy Projects **		3
	REE 4304 Energy Storage Tech **		3
	REE 4305 Energy Governance **		3
	REE 4310 Capstone Design **		3
	Three Engineering Technical Electives **		9
	<b>TOTAL Resource &amp; Energy Engineering</b>		<b>48</b>