

# Natural Gas Engineering, B.S.

---

Accredited by the Engineering Accreditation Commission of ABET, <https://www.abet.org/>

Course	Title	Semester Credit Hours
<b>Freshman Year</b>		
<b>Semester 1</b>		
CHEM 1311 & CHEM 1111	Gen Inorganic Chemistry I and Gen Inorganic Chem Lab I	4
ENGL 1301	Rhetoric and Composition	3
HIST 1301	American History to 1877	3
MATH 2413	Calculus I	4
GEEN 1201	Engineering as a Career <sup>1</sup>	2
<b>Semester Credit Hours</b>		<b>16</b>
<b>Semester 2</b>		
CHEM 1312 & CHEM 1112	Gen Inorganic Chemistry II and Gen Inorganic Chem Lab II	4
ENGL 1302	Rhetoric and Composition	3
MATH 2414	Calculus II	4
PHYS 2325 & PHYS 2125	University Physics I and University Physics I Lab	4
<b>Semester Credit Hours</b>		<b>15</b>
<b>Sophomore Year</b>		
<b>Semester 1</b>		
CHEM 3323 & CHEM 3123	Organic Chemistry I and Organic Chemistry Lab I	4
GEOL 1303 & GEOL 1103	Physical Geology and Physical Geology Laboratory	4
HIST 1302	American History since 1877	3
MATH 3320	Differential Equations	3
Lang/Phil/Culture		3
<b>Semester Credit Hours</b>		<b>17</b>
<b>Semester 2</b>		
GEOL 4307 & GEOL 4107	Applied Geology and Applied Geology Lab	4
MEEN 2355	Statics and Dynamics	3
PHYS 2326 & PHYS 2126	University Physics II and University Physics II Lab	4
POLS 2301	Government and Politics of US	3
Creative Arts		3
<b>Semester Credit Hours</b>		<b>17</b>
<b>Junior Year</b>		
<b>Semester 1</b>		
CEEN 3311	Strength of Materials	3
CHEN 3347	Chem Eng Thermodynamics I	3
NGEN 3322 & NGEN 3122	Fund of Reservoir Engineering and Reservoir Engineering Lab	4
NGEN 3392	Fluid Transport Phenomena	3
POLS 2302	Government and Politics of TX	3
<b>Semester Credit Hours</b>		<b>16</b>
<b>Semester 2</b>		
CHEN 3310	Heat Transport Phenomena	3

CHEN 3321	Process Simulation	3
NGEN 3393 & NGEN 3193	Fundamentals of Drilling Engg and Drilling Engineering Lab	4
IEEN 2310	Appl. Meth. in Engr. Stat. I	3
Communications		3
<b>Semester Credit Hours</b>		<b>16</b>
<b>Senior Year</b>		
<b>Semester 1</b>		
NGEN 4297	Capstone Design I	2
NGEN 4375	Natural Gas Transmission and Distribution	3
NGEN 4389	Separation Processes	3
NGEN 4396	Natural Gas Production	3
Social/Behavioral		3
<b>Semester Credit Hours</b>		<b>14</b>
<b>Semester 2</b>		
NGEN 4378	Hydrocarbon Flow Measurement	3
NGEN 4178	Hydrocarbon Measurements Lab	1
NGEN 4387	Well-Logging	3
NGEN 4383	Natural Gas Processes	3
NGEN 4398	Capstone Design II (WI)	3
<b>Semester Credit Hours</b>		<b>13</b>
<b>Total Credit Hours Required:</b>		<b>124</b>

<sup>1</sup> Pre-Engineering Students and Alternate Pre-Engineering students are required to take UNIV 1201 instead of GEEN 1201.