

**Petroleum Engineering Curriculum
Catalog 129 (2006-07)**

FRESHMAN YEAR

First Semester	(Th-Pr)	Cr		Second Semester	(Th-Pr)	Cr
ENGL 104 Comp. and Rhetoric	(3-0)	3		CHEM 107 Chemistry for Engineers ³	(3-3)	4
ENGR 111 Foundations in Engineering I	(1-3)	2		ENGR 112 Foundations in Engineering II	(1-3)	2
MATH 151 Engineering Mathematics I ¹	(3-2)	4		MATH 152 Engineering Mathematics II	(3-2)	4
PHYS 218 Mechanics	(3-3)	4		PHYS 208 Electricity and Optics	(3-3)	4
University Core Curriculum elective ²		3		University Core Curriculum elective ²		3
* KINE 198 Health and Fitness Activity	(0-2)	1		* KINE 199 Required Physical Activity	(0-2)	1
		17				18

SOPHOMORE YEAR

First Semester	(Th-Pr)	Cr		Second Semester	(Th-Pr)	Cr
COMM 205 Comm. for Tech. Professionals	(3-0)	3		CVEN 305 Mechanics of Materials	(3-0)	3
GEOL 104 Physical Geology	(3-2)	4		MATH 308 Differential Equations	(3-0)	3
MATH 251 Engineering Mathematics III	(3-0)	3		MEEN 227 Prin. of Thermodynamics	(2-2)	3
MEEN 221 Statics and Particle Dynamics	(2-2)	3		PETE 311 Reservoir Petrophysics	(3-3)	4
PETE 225 Petroleum Drilling Systems	(1-3)	2		University Core Curriculum elective ²		3
University Core Curriculum elective ²		3				16
		18				

JUNIOR YEAR

First Semester	(Th-Pr)	Cr		Second Semester	(Th-Pr)	Cr
GEOL 404 Geology of Petroleum	(2-2)	3		PETE 321 Formation Evaluation	(3-3)	4
PETE 301 Petr. Engr. Numerical Methods	(2-3)	3		PETE 323 Reservoir Models	(3-0)	3
PETE 310 Reservoir Fluids	(2-3)	3		PETE 324 Well Performance	(3-0)	3
PETE 314 Transport. Processes in Petroleum Production	(3-3)	4		PETE 325 Petroleum Productions Systems	(1-3)	2
PETE 335 Technical Presentations I ³	(1-0)	1		PETE 403 Petroleum Project Evaluation	(3-0)	3
		14				15

SUMMER

PETE 300 Summer Practice

SENIOR YEAR

First Semester	(Th-Pr)	Cr		Second Semester	(Th-Pr)	Cr
ELEN 215 Principles of Electrical Engineering	(2-2)	3		ENGR 482 Ethics and Engineering	(3-0)	3
PETE 401 Reservoir Development	(2-3)	3		PETE 322 Geostatistics	(3-0)	3
PETE 405 Drilling Engineering	(3-0)	3		PETE 400 Reservoir Description	(2-3)	3
PETE 410 Production Engineering	(3-0)	3		Technical elective ⁴		3
PETE 435 Technical Presentations II ³	(1-0)	1		University Core Curriculum elective ²		3
University Core Curriculum elective ²		3				15
		13				

NOTES:

1. PETE 201 is also required during the first semester of the freshman year.
2. To be selected from the University Core Curriculum. Of the 18 hours shown as University Core Curriculum electives, 3 must be from visual and performing arts, 3 from social and behavioral sciences, 6 from U.S. history, and 6 from POLS 206 and 207. The required 6 hours from international and cultural diversity may be met by courses satisfying the visual and performing arts, social and behavioral sciences, and/or U.S. history requirements if they are also on the approved list of international and cultural diversity courses (see **University Core Curriculum**, item 6). In addition, ENGR 482/PHIL 482 must be taken.
3. Independent study of a petroleum engineering problem, the solution of which will be documented by a technical paper and an oral presentation.
4. Select from GEOL 312, GEOP 421, PETE 406 or 416, or other as approved by the department head.