

Program Change Request

Date Submitted: 10/28/18 12:48 am

Viewing: **BS-PETE-QT : Petroleum Engineering - BS, Qatar Campus**

Last approved: 09/14/18 5:03 pm

Last edit: 11/26/18 10:49 am

Changes proposed by: jlb006

[Petroleum Engineering - BS](#)

Catalog Pages Using
this Program

In Workflow

1. PETE Program Chair
2. QT Dean
3. PETE Department Head
4. Curricular Services Review
5. EN Committee Preparer UG
6. EN Committee Chair UG
7. EN College Dean UG
8. UCC Preparer
9. UCC Chair
10. Faculty Senate Preparer
11. Faculty Senate
12. Provost II
13. President
14. Curricular Services

Approval Path

1. 10/31/18 6:39 am
John Louis Bolch (jlb006): Approved for PETE Program Chair
2. 10/31/18 9:32 am
Hazem Nounou (hazem.nounou): Approved for QT Dean
3. 11/16/18 8:07 am
Kathy Beladi (k-beladi): Approved for PETE Department Head
4. 11/18/18 11:45 am
Angel Mario Carrizales (carri1214): Approved for Curricular Services Review
5. 11/20/18 2:01 pm
Eileen Hoy (ehoy): Approved for EN Committee Preparer UG
6. 11/20/18 2:47 pm
Prasad Enjeti (enjeti): Approved for EN Committee Chair UG
7. 11/20/18 2:48 pm
Prasad Enjeti (enjeti): Approved for EN College Dean UG
8. 11/20/18 2:53 pm
Sandra Williams (sandra-williams): Approved for UCC Preparer
9. 12/10/18 10:41 am
Terra Bissett (t.bissett): Approved for UCC Chair

Contact(s)

Name	E-mail	Phone
John Louis Bolch	john.bolch@qatar.tamu.edu	555-555-5555

Academic level	Undergraduate
Effective Term	2019-2020 Qatar
Department	Petroleum Engineering
College	Qatar Campus
Program type	Degree w/Concentration
Degree designation	BS - Bachelor of Science
With a major in	Petroleum Engineering (PETE)
Associated Program	Not Applicable
With a concentration in	Site QT - Qatar (QT)

Catalog Program Title
Petroleum Engineering - BS, Qatar Campus

CIP and Fund code

Rationale for Proposal

Aligning program with the College of Engineering and College of Science changes.

Program hours	128
Is this program eligible for financial aid?	Yes
Will program hours change (increase/decrease) due to the proposed curriculum changes?	No
Program delivery mode	
Off-campus - specify location	
Out-of-Country	
Location is	
Out of State	

Is this an approved SACSCOC location?	Yes
SACSCOC Location	Texas A&M University Qatar Campus, 253 Texas A&M Qatar Engineering Building, Education City, Al Luqta St, Doha, Qatar
Will this program be offered with another institution?	No
% of Program a student can take off-campus or through Distance Education	100%

History

1. Jun 1, 2017 by Angel Mario Carrizales (carri1214)
2. Sep 19, 2017 by Angela Allensworth (arankin)
3. Sep 14, 2018 by John Louis Bolch (jlb006)

Catalog Program Requirements

The freshman year is identical for degrees in electrical engineering, mechanical engineering, and petroleum engineering. The freshman year is slightly different for chemical engineering in that students take [CHEM 119](#) or [CHEM 101/111](#) or [CHEM 107/CHEM 117](#) and [CHEM 120](#). ~~CHEM 102/112~~ It is recognized that many students will change the sequence and number of courses taken in any semester. Deviations from the prescribed course sequence, however, should be made with care to ensure that prerequisites for all courses are met.

Plan of Study Grid

First Year

Fall		Semester Credit Hours
CHEM 107	General Chemistry for Engineering Students	4
& CHEM 117	and General Chemistry for Engineering Students Laboratory 1,2	
ENGL 104	Composition and Rhetoric 1	3
ENGR 102	Engineering Lab I - Computation 1	2
MATH 151	Engineering Mathematics I 1,3	4
University Core Curriculum	4	3
	Semester Credit Hours	16
Spring		
ENGR 216/PHYS 216	Experimental Physics and Engineering Lab II - Mechanics 1	2
MATH 152	Engineering Mathematics II 1,3	4
PHYS 206	Newtonian Mechanics for Engineering and Science 1	3
University Core Curriculum	4	6
	Semester Credit Hours	15
	Total Semester Credit Hours	31

1 A grade of C or better is required.

2CHEN requires 8 hours of freshman chemistry, which may be satisfied by [CHEM 119](#) or [CHEM 107/CHEM 117](#) and [CHEM 120](#); Credit by Examination (CBE) for [CHEM 119](#) or [CHEM 107/CHEM 117](#) plus [CHEM 120](#).

3Entering students will be given a math placement exam. Test results will be used in selecting the appropriate starting course which may be at a higher or lower level.

4Of the 18 hours shown as University Core Curriculum electives, 3 must be from creative arts, 3 from social and behavioral sciences, 6 from American history, and 6 from government/political science. The required 3 hours from international and cultural diversity and 3 hours of cultural discourse may be met by courses satisfying the creative arts, social and behavioral sciences, and American history requirements if they are also on the approved list of international and cultural diversity or cultural discourse courses.

Plan of Study Grid

Second Year

Fall		Semester Credit Hours
ENGL 210	Technical and Business Writing	3
ENGR 217/PHYS 217	Experimental Physics and Engineering Lab III - Electricity and Magnetism 1	2
MATH 251	Engineering Mathematics III 1	3
MEEN 221	Statics and Particle Dynamics	3
PETE 225	Introduction to Drilling Systems 1	3
PHYS 207	Electricity and Magnetism for Engineering and Science 1	3
	Semester Credit Hours	17
Spring		
CVEN 305	Mechanics of Materials	3
GEOL 104	Physical Geology 1	4
MATH 308	Differential Equations	3
MEEN 315	Principles of Thermodynamics	3
PETE 311	Reservoir Petrophysics	4
	Semester Credit Hours	17

Third Year

Fall

GEOL 404	Geology of Petroleum	3
PETE 301	Petroleum Engineering Numerical Methods	3
PETE 310	Reservoir Fluids	4
PETE 314	Transport Processes in Petroleum Production	3
PETE 353	Petroleum Project Evaluation	3
	Semester Credit Hours	16
Spring		
PETE 321	Formation Evaluation	4
PETE 323	Fundamentals of Reservoir Engineering	3
PETE 324	Well Testing	3
PETE 325	Petroleum Production Systems	3
PETE 336	Petroleum Technical Presentation I	1
PETE 337	Junior Student Paper Contest	0
PETE 355	Drilling Engineering	3
	Semester Credit Hours	17
Summer		
PETE 300	Summer Practice	0
	Semester Credit Hours	0
Fourth Year		
Fall		
PETE 401	Reservoir Simulation	2
PETE 404	Integrated Reservoir Modeling	3
PETE 410	Production Engineering	3
PETE 436	Petroleum Technical Presentation II	1
University Core Curriculum 4		3
Technical elective 5		3
	Semester Credit Hours	15
Spring		
ENGR 482/PHIL 482	Ethics and Engineering	3
PETE 402	Integrated Asset Development	3
PETE 437	Senior Student Paper Contest	0
University Core Curriculum 4		6
Technical elective 5		3
	Semester Credit Hours	15
	Total Semester Credit Hours	97
5 See an academic advisor for a list of approved courses.		
Total Program Hours 128		

Additional information	First Year follows College of Engineering's First Year Curriculum.
Required Proposal	201833-PETE.pdf
Forms	FS-August.pdf BS-PETE_QT 2019.pdf
Reviewer Comments	Terra Bissett (t.bissett) (12/10/18 10:41 am): UCC approved December 2018.

Key: 852

Total Credits and GPA 0.000 .00

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Area Life and Physical Sciences (10.000 credits) - Not Met

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course	Title	Attribute	Credits	Grade	Source
No		A.	CHEM 107 and 117													
No	AND	B.	PHYS 206 3hrs													
No	AND	C.	PHYS 207 3hrs													

Total Credits and GPA 0.000 .00

unofficial evaluation

Area Language, Philosophy & Culture (3.000 credits) - Not Met

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course	Title	Attribute	Credits	Grade	Source
No		A.	ENGR 482 3hrs													

Total Credits and GPA 0.000 .00

unofficial evaluation

Area Creative Arts (3.000 credits) - Not Met

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course	Title	Attribute	Credits	Grade	Source
No		A.	Creative Arts Requirement 3hrs													

Total Credits and GPA 0.000 .00

unofficial evaluation

Area Social and Behavioral Sciences (3.000 credits) - Not Met

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course	Title	Attribute	Credits	Grade	Source
No		A.	Social Science Rqmt 3hrs													

Total Credits and GPA 0.000 .00

unofficial evaluation

Area : Citizenship (12.000 credits) - Not Met

Description : Completion of 4 semesters of Upper-Level ROTC may be substituted for 3 hours of American History and 3 hours of Political Science.

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course	Title	Attribute	Credits	Grade	Source
No		A.	American History Rqmt 6hrs													
No	AND	B.	Political Science Rqmt 6hrs													

Total Credits and GPA 0.000 .00

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Area : Work Not Applied - Met

Description : See advisor for acceptable substitutions.

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course	Title	Attribute	Credits	Grade	Source
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No A. Courses not applied

Total Credits and GPA 0.000 .00

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Area University Writing Requirement - Not Met

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course	Title	Attribute	Credits	Grade	Source
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No A. Writing Requirement

Two courses required.
Only sections of ENGR 482; PETE 435, 436 with the Writing attribute [UWRT] or Communication attribute [UCRT] may be used to satisfy this requirement.

Total Credits and GPA 0.000 .00

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Area Int'l & Cult Diversity - Not Met

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course	Title	Attribute	Credits	Grade	Source
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No A. Int'l & Cultural Diversity ³hr

Select from courses with the International and Cultural Diversity attribute [UICD] (except sections of BUSN 289 with the UWRT attribute).

B. CD -3 hr

Any CD Course

Total Credits and GPA 0.000 .00

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Area Foreign Language - Not Met

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course	Title	Attribute	Credits	Grade	Source
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No A. Foreign Language Rqmt

Complete one of the following:
1. Two years of the same foreign language in High School.
2. A two semester sequence of the same foreign language for University credit.

Total Credits and GPA 0.000 .00

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Area GPR-Major - Not Met

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course	Title	Attribute	Credits	Grade	Source
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No A. GPR-Major 52+hrs

Select from PETE 100-499; CHEN 459, 461; ECEN 215, 303, 314; GEOL 104, 312, 404; GEOP 421; MATH 304.
Must maintain a GPR of 2.000 in all courses taken.

Total Credits and GPA 0.000 .00

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Area : Residence Requirement - Not Met

Description : A minimum of 36 hours of 300-400 level coursework must be completed at Texas A&M University. 12 hours must be in the major field.

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course	Title	Attribute	Credits	Grade	Source
No		A.	Residence-Major				12hrs	Select from PETE 300-499; GEOL 312, 404, GEOP 421.								
No	AND	B.	Residence 300-499				24hrs	Select any courses level 300-499.								
													Total Credits and GPA	0.000	.00	

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