

# Program Change Request

Date Submitted: 10/28/18 12:37 am

Viewing: **BS-MEEN-QT : Mechanical Engineering - BS, Qatar Campus**

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

Last edit: 11/26/18 10:48 am

Changes proposed by: jlb006

[Mechanical Engineering - BS](#)

Catalog Pages Using  
this Program

## In Workflow

1. MEEN Program Chair
2. QT Dean
3. MEEN 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. 10/28/18 3:43 am  
Vijay Panchang (vpanchang): Approved for MEEN Program Chair
2. 10/28/18 6:52 am  
Hazem Nounou (hazem.nounou): Approved for QT Dean
3. 10/29/18 8:40 am  
Tillie McVay (t\_mcvay): Rollback to MEEN Program Chair for MEEN Department Head
4. 11/07/18 2:44 am  
Vijay Panchang (vpanchang): Approved for MEEN Program Chair
5. 11/07/18 3:09 am  
Hazem Nounou (hazem.nounou): Approved for QT Dean
6. 11/14/18 8:40 am  
Tillie McVay (t\_mcvay): Approved for MEEN Department Head
7. 11/15/18 12:34 pm  
Angel Mario Carrizales (carri1214): Approved for Curricular Services Review
8. 11/20/18 1:58 pm  
Eileen Hoy (ehoy): Approved for EN Committee Preparer UG

## 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	Mechanical Engineering
College	Qatar Campus
Program type	Degree w/Concentration
Degree designation	BS - Bachelor of Science
With a major in	Mechanical Engineering (MEEN)
Associated Program	<b>Not Applicable</b>
With a concentration in	Site QT - Qatar (QT)

Catalog Program Title  
Mechanical Engineering - BS, Qatar Campus

CIP and Fund code

## Rationale for Proposal

Aligning program with the College of Engineering and College of Science **changes changes. Adding the ENGRx requirement.**

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%

9. 11/20/18 2:47 pm  
Prasad Enjeti (enjeti):  
Approved for EN  
Committee Chair UG
10. 11/20/18 2:48 pm  
Prasad Enjeti (enjeti):  
Approved for EN  
College Dean UG
11. 11/20/18 2:53 pm  
Sandra Williams  
(sandra-williams):  
Approved for UCC  
Preparer
12. 12/10/18 10:44 am  
Terra Bissett (t.bissett):  
Approved for UCC Chair

## Catalog Program Requirements

### History

- Jun 1, 2017 by Angel Mario Carrizales (carri1214)
- Sep 14, 2018 by John Louis Bolch (jlb006)

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](#), [CHEM 101](#)/[CHEM 111](#) or [CHEM 107](#)/[CHEM 117](#) and [CHEM 120](#), [CHEM 102](#)/[CHEM 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
<a href="#">CHEM 107</a>	General Chemistry for Engineering Students	4
& <a href="#">CHEM 117</a>	and General Chemistry for Engineering Students Laboratory 1,2	
<a href="#">ENGL 104</a>	Composition and Rhetoric 1	3
<a href="#">ENGR 102</a>	Engineering Lab I - Computation 1	2
<a href="#">MATH 151</a>	Engineering Mathematics I 1,3	4
<a href="#">University Core Curriculum</a>	4	3
	Semester Credit Hours	16
Spring		
<a href="#">ENGR 216/PHYS 216</a>	Experimental Physics and Engineering Lab II - Mechanics 1	2
<a href="#">MATH 152</a>	Engineering Mathematics II 1,3	4
<a href="#">PHYS 206</a>	Newtonian Mechanics for Engineering and Science 1	3
<a href="#">University Core Curriculum</a>	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 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
<a href="#">ENGR 217/PHYS 217</a>	Experimental Physics and Engineering Lab III - Electricity and Magnetism 1	2
<a href="#">MATH 251</a>	Engineering Mathematics III 1	3
or <a href="#">MATH 253</a>	or Engineering Mathematics III	
<a href="#">MEEN 210</a>	Geometric Modeling for Mechanical Design 1	2
<a href="#">MEEN 222/MSEN 222</a>	Materials Science 1	3
<a href="#">MEEN 225</a>	Engineering Mechanics 1	3
<a href="#">PHYS 207</a>	Electricity and Magnetism for Engineering and Science 1	3
	Semester Credit Hours	16

Spring		
<a href="#">ECEN 215</a>	Principles of Electrical Engineering 1	3
or <a href="#">ECEN 214</a>	or Electrical Circuit Theory	
<a href="#">ENGL 210</a>	Technical and Business Writing	3
<a href="#">ISEN 302</a>	Economic Analysis of Engineering Projects	2
<a href="#">MATH 308</a>	Differential Equations 1	3
<a href="#">MEEN 315</a>	Principles of Thermodynamics 1	3
<a href="#">MEEN 368</a>	Solid Mechanics in Mechanical Design 1	3
	Semester Credit Hours	17
Summer		
High Impact Experience 5		0
<a href="#">MEEN 399</a>	High Impact Experience for Mechanical Engineers 6	
	Semester Credit Hours	0
Third Year		
Fall		
<a href="#">MEEN 260</a>	Mechanical Measurements 1	3
<a href="#">MEEN 344</a>	Fluid Mechanics 1	3
<a href="#">MEEN 357</a>	Engineering Analysis for Mechanical Engineers 1	3
<a href="#">MEEN 363</a>	Dynamics and Vibrations 1	3
<a href="#">MEEN 381</a>	Seminar	1
<a href="#">University Core Curriculum</a> 4		3
	Semester Credit Hours	16
Spring		
<a href="#">MEEN 345</a>	Fluid Mechanics Laboratory 1	1
<a href="#">MEEN 360</a>	Materials and Manufacturing Selection in Design 1	3
<a href="#">MEEN 361</a>	Materials and Manufacturing in Design Laboratory 1	1
<a href="#">MEEN 364</a>	Dynamic Systems and Controls 1	3
<a href="#">MEEN 441</a>	Design of Mechanical Components and Systems 1	3
<a href="#">MEEN 461</a>	Heat Transfer 1	3
<a href="#">University Core Curriculum</a> 4		3
	Semester Credit Hours	17
Fourth Year		
Fall		
<a href="#">MEEN 401</a>	Introduction to Mechanical Engineering Design 1	3
<a href="#">MEEN 404</a>	Engineering Laboratory	3
<a href="#">MEEN 464</a>	Heat Transfer Laboratory 1	1
<a href="#">University Core Curriculum</a> 4		3
	Mechanical and Manufacturing System Elective 6	3
	Thermofluids System Elective 6	3
	Semester Credit Hours	16
Spring		
<a href="#">ENGR 482/PHIL 482</a>	Ethics and Engineering	3
<a href="#">MEEN 402</a>	Intermediate Design	3
	General Elective 6,7	3
	Technical Elective 6	6
	Semester Credit Hours	15
	Total Semester Credit Hours	97

5 All students are required to complete a high-impact experience in order to graduate. The list of possible high-impact experiences is available in the advising office.

6 See an academic advisor for a list of approved courses. Students must take at least one course from Thermofluids Systems and at least one course from Mechanical and Manufacturing Systems.

7 Must be 300-499 level course

**Total Program Hours 128**

Additional information	First Year follows College of Engineering's First Year Curriculum.
Required Proposal Forms	<a href="#">201833-MEEN-update.pdf</a> <a href="#">FS-August.pdf</a> <a href="#">BS MEEN QT 2019.pdf</a>
Reviewer Comments	<b>Tillie McVay (t_mcvay) (10/29/18 8:40 am):</b> Rollback: It was requested that this proposal have a rollback for corrections from Qatar faculty. <b>Angel Mario Carrizales (carri1214) (11/15/18 12:34 pm):</b> Edits made to conform to catalog style guidelines. <b>Terra Bissett (t.bissett) (12/10/18 10:44 am):</b> UCC approved December 2018.







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**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	

Select from courses with the Social and Behavioral Science attribute [KSOC].

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**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	

Select from any course with the [KHIS] attribute.

Take POLS 206 and POLS 207.

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**Area General Electives ( 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.		General Electives 3hrs													
													Total Credits and GPA	0.000	.00	

Select from any course 300-499 not used elsewhere.

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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
No	A.		Courses not applied													
													Total Credits and GPA	0.000	.00	

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**Area High-Impact Experience - Not Met**

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course	Title	Attribute	Credits	Grade	Source
No	A.		High-Impact Experience													

One course required.  
Visit your academic advisor for more information regarding possible high impact experiences

Includes:

- ENGR 484
- MEEN 399
- MEEN 491
- Any courses with the study abroad attribute [SABR]

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
No	A.		Writing Requirement													
<p>Two courses required. Only sections of ENGR 482; MEEN 360; MEEN 381; MEEN 404 with the Writing attribute [UWRT] or communication attribute [UCRT] may be used to satisfy this requirement.</p>																

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
No	A.		Int'l & Cultural Diversity				3									
<p>Select from courses with the International and Cultural Diversity attribute [UICD] (except sections of BUSN 289 with the UWRT attribute).</p>																

Total Credits and GPA 0.000 .00

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*B. CD Requirement 3hrs  
Any CD course*

**Area Foreign Language - Not Met**

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

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
No	A.		Major GPR 46+hrs													
<p>Select from AERO 400-499; BMEN 400-499; CHEN 304, 323, 400-499; CVEN 302, 305, 400-499; ECEN 215, 400-499; ENGR 381, 385, 482; ISEN 300-315, 317-499; MEEN 100-499; MEMA 400-499; NUEN 400-499; OCEN 400-499; PETE 400-499; PHIL 482; SENG 400-499.</p>																

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
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No A. Residence-Major 12hrs

Select from MEEN 300-499.



No AND B. Residence 300-499 24hrs  
Select any courses level 300-499.

Total Credits and GPA 0.000 .00

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