

# Program Change Request

Date Submitted: 10/24/18 12:00 am

Viewing: **BS-ELEN-QT : Electrical Engineering - BS, Qatar Campus**

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

Last edit: 11/26/18 10:46 am

Changes proposed by: jlb006

Catalog Pages Using [Electrical Engineering - BS](#)  
this Program

## 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 Electrical & Computer Eng  
 College Qatar Campus  
 Program type Degree w/Concentration  
 Degree designation BS - Bachelor of Science  
 With a major in Electrical Engineering (ELEN)  
 Associated Program **Not Applicable**  
 With a concentration in Site QT - Qatar (QT)

Catalog Program Title  
Electrical Engineering - BS, Qatar Campus

CIP and Fund code

## Rationale for Proposal

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

## In Workflow

1. ECEN Program Chair
2. QT Dean
3. ECEN 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. 10/18/18 8:00 am  
Haitham Abu-Rub (haitham.abu-rub): Approved for ECEN Program Chair
2. 10/23/18 1:59 am  
Hazem Nounou (hazem.nounou): Approved for QT Dean
3. 10/23/18 1:48 pm  
Aydin Karsilayan (karsilay): Rollback to Initiator
4. 10/24/18 3:00 pm  
Haitham Abu-Rub (haitham.abu-rub): Approved for ECEN Program Chair
5. 10/28/18 3:36 am  
Hazem Nounou (hazem.nounou): Approved for QT Dean
6. 10/29/18 3:41 pm  
Aydin Karsilayan (karsilay): Approved for ECEN Department Head
7. 11/01/18 11:34 am  
Angel Mario Carrizales (carri1214): Approved for Curricular Services Review
8. 11/17/18 8:20 am  
Eileen Hoy (ehoy): Approved for EN Committee Preparer UG
9. 11/18/18 11:34 am  
Prasad Enjeti (enjeti):

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%

Approved for EN  
Committee Chair UG  
10. 11/18/18 12:02 pm  
Prasad Enjeti (enjeti):  
Approved for EN  
College Dean UG  
11. 11/19/18 8:27 am  
Sandra Williams  
(sandra-williams):  
Approved for UCC  
Preparer  
12. 12/10/18 10:49 am  
Terra Bissett (t.bissett):  
Approved for UCC Chair

## Catalog Program Requirements

### History

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

The freshman year is identical for degrees in electrical engineering, mechanical engineering, 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
<a href="#">CHEM 107</a>	General Chemistry for Engineering Students	4
& <a href="#">CHEM 117</a>	and General Chemistry for Engineering Students Laboratory 1,4	
<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 1,2	4
<a href="#">University Core Curriculum</a>	3	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 1,2	4
<a href="#">PHYS 206</a>	Newtonian Mechanics for Engineering and Science 1	3
<a href="#">University Core Curriculum</a>	3	6
	Semester Credit Hours	15
	Total Semester Credit Hours	31

1 A grade of C or better is required.

2 Entering 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.

3 Of 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 from 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.

4 CHEN 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](#).

#### Plan of Study Grid

##### Second Year

Fall		Semester Credit Hours
<a href="#">ECEN 210</a>	COMP PROG & ALGORITHMS 1	4
<a href="#">ECEN 248</a>	Introduction to Digital Systems Design 1	4
<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
<a href="#">PHYS 207</a>	Electricity and Magnetism for Engineering and Science 1	3
	Semester Credit Hours	16
Spring		
<a href="#">ECEN 214</a>	Electrical Circuit Theory 1	4
<a href="#">MATH 308</a>	Differential Equations 1	3
<a href="#">MATH 311</a>	Topics in Applied Mathematics I 1	3

<u>University Core Curriculum</u> 3		6
Semester Credit Hours		16
Summer		
High Impact Experience 5		0
<u>ECEN 399</u>	High Impact Professional Development	
Semester Credit Hours		0
Third Year		
Fall		
<u>ECEN 314</u>	Signals and Systems 1	3
<u>ECEN 322</u>	Electric and Magnetic Fields 1	3
<u>ECEN 325</u>	Electronics 1	4
<u>ENGL 210</u>	Technical and Business Writing	3
<u>PHYS 222</u>	Modern Physics for Engineers 1	3
Semester Credit Hours		16
Spring		
<u>ECEN 303</u>	Random Signals and Systems 1	3
<u>ECEN 340</u>	<b>Electric Energy Conversion</b>	<b>3</b>
<u>ECEN 350/CSCE 350</u>	Computer Architecture and Design 1	4
<u>ECEN 370</u>	Electronic Properties of Materials 1	3
<del>ECEN electives 6</del>		<del>3</del>
Technical electives 6		3
Semester Credit Hours		16
Fourth Year		
Fall		
<u>ECEN 403</u>	Electrical Design Laboratory I 1	3
ECEN electives 6		12
<u>University Core Curriculum</u> 3		3
Semester Credit Hours		18
Spring		
<u>ECEN 404</u>	Electrical Design Laboratory II 1	3
<u>ENGR 482/PHIL 482</u>	Ethics and Engineering	3
ECEN electives 6		9
Semester Credit Hours		15
Total Semester Credit Hours		97

5All 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.

6See an academic advisor for a list of approved courses.

**Total Program Hours 128**

Additional information	Follows College of Engineering First Year Curriculum.
Required Proposal Forms	<del>201833-ELEN (2).pdf</del> <del>FS-August.pdf</del> <u>BS-ELEN-QT 201933.pdf</u>
Reviewer Comments	<b>Aydin Karsilayan (karsilay) (10/23/18 1:46 pm):</b> ECEN 399 will have a co-requisite of ECEN 403, therefore needs to be moved to Fall semester of 4th year. In addition, ENGR/PHIL 482 will not provide the ethics component for the department, as well as writing attribute (it will only fulfill LPC) starting with 2019 catalog, so it was replaced with UCC in the 2019 ELEN catalog. <b>Aydin Karsilayan (karsilay) (10/23/18 1:48 pm):</b> Rollback: ECEN 399 and ENGR 482, comments added. <b>Terra Bissett (t.bissett) (12/10/18 10:49 am):</b> UCC approved December 2018.







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											
			Select from any course with the [KHIS] attribute.													
No	AND	B.	Political Science	Rqmt	6hrs											
			Take POLS 206 and POLS 207.													
														Total Credits and GPA	0.000	.00

unofficial evaluation

**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

unofficial evaluation

**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:													
			<ul style="list-style-type: none"> <li>• ENGR 484</li> <li>• ECEN 399</li> <li>• ECEN 491</li> <li>• Any courses with the study abroad attribute [SABR]</li> </ul>													
														Total Credits and GPA	0.000	.00

unofficial evaluation

**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													
			Two courses required. Only sections of ENGR 482; ECEN 403 and ECEN 405 with the Writing attribute [UWRT] or Communications attribute [UCRT] may be used to satisfy this requirement.													
														Total Credits and GPA	0.000	.00

unofficial evaluation

**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	6hr												
			Select from courses with the International and Cultural Diversity													

attribute [UICD] (except sections of BUSN 289 with the UWRT attribute).

CD - cont. Diversity - 3hr  
Any course

Total Credits and GPA 0.000 .00

unofficial evaluation

**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													
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

unofficial evaluation

**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 50+hrs													
Select from ECEN 100-499. Must maintain a GPR of 2.000 in all courses taken.																

Total Credits and GPA 0.000 .00

unofficial evaluation

**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 ECEN 300-499.																
No	AND	B.	Residence 300-499 24hrs													

Total Credits and GPA 0.000 .00

unofficial evaluation

[Back to Display Options](#)