

Program Change Request

Date Submitted: 11/15/18 9:46 am

Viewing: **BS-COSC : Construction Science - BS**

Last edit: 11/15/18 3:17 pm

Changes proposed by: shelley-smith

Construction Science - BS

Catalog Pages Using
this Program

Contact(s)

Name	E-mail	Phone
Shelley Smith	shelleysmith@tamu.edu	979-845-1017

Academic level	Undergraduate
Effective Term	2019-2020
Department	Construction Science
College	Architecture
Program type	Degree
Degree designation	BS - Bachelor of Science
With a major in	Construction Science (COSC)
Associated Program	Not Applicable

Catalog Program Title
Construction Science - BS

CIP and Fund code 15100100

Rationale for Proposal

Program hours **120**Is this program eligible
for financial aid?Will program hours
change
(increase/decrease)
due to the proposed
curriculum changes?Program delivery mode
On-campus

In Workflow

1. COSC Department
Comm Chair
2. COSC Department
Head
3. Curricular Services
Review
4. AR Committee Chair
5. AR College Dean
6. UCC Preparer
7. UCC Chair
8. Faculty Senate
Preparer
9. Faculty Senate
10. Provost II
11. President
12. Curricular Services

Approval Path

1. 10/31/18 11:50 am
Shelley Smith
(shelleysmith):
Approved for COSC
Department Comm
Chair
2. 11/01/18 4:52 pm
Patrick Suermann
(suermann): Approved
for COSC Department
Head
3. 11/02/18 2:56 pm
Angel Mario Carrizales
(carri1214): Rollback to
Initiator
4. 11/07/18 10:30 pm
Shelley Smith
(shelleysmith):
Approved for COSC
Department Comm
Chair
5. 11/08/18 9:57 am
Patrick Suermann
(suermann): Approved
for COSC Department
Head
6. 11/12/18 3:34 pm
Angel Mario Carrizales
(carri1214): Rollback to
Initiator
7. 11/15/18 9:50 am
Shelley Smith
(shelleysmith):
Approved for COSC
Department Comm
Chair
8. 11/15/18 10:41 am
Patrick Suermann
(suermann): Approved

Catalog Program Requirements

- for COSC Department Head
9. 11/15/18 4:58 pm
Angel Mario Carrizales (carri1214): Approved for Curricular Services Review
10. 11/16/18 8:40 pm
Leslie Feigenbaum (l-feigenbaum): Approved for AR Committee Chair
11. 11/16/18 8:44 pm
Leslie Feigenbaum (l-feigenbaum): Approved for AR College Dean
12. 11/19/18 8:17 am
Sandra Williams (sandra-williams): Approved for UCC Preparer
13. 12/10/18 10:51 am
Terra Bissett (t.bissett): Approved for UCC Chair

Course List

Code	Title	Semester Credit Hours
Construction Science		
COSC 175/AREN 175	Construction Graphics Communication	3
COSC 253	Construction Materials and Methods I	3
COSC 254	Construction Materials and Methods II	3
COSC 301	Construction Surveying	3
COSC 321	Structural Systems I	3
COSC 325	Mechanical, Electrical and Plumbing Systems in Construction I	3
COSC 326	Mechanical, Electrical and Plumbing Systems in Construction II	3
COSC 421	Soil and Structural Analysis.	3
Construction		
COSC 275	Estimating I	3
COSC 353	Construction Project Management	3
COSC 364	Construction Safety I	1
COSC 375	Estimating II	3
COSC 381	Professional Ethics in the Construction Industry	1
COSC 463	Introduction to Construction Law	3
COSC 465	Advanced Topics in Construction Law	3
COSC 475	Construction Project Planning	3
COSC 477	Construction Project Controls	3
COSC 494	Internship	7
Capstone		
Select one of the following:		3
COSC 440	Interdisciplinary Capstone	
COSC 441	Residential Capstone	
COSC 442	Commercial Capstone	
COSC 443	Industrial Capstone	
COSC 446	Specialty Capstone	
Construction Business and Management		
ACCT 209	Survey of Accounting Principles	3
FINC 409	Survey of Finance Principles	3
MGMT 209	Business, Government and Society	3
MGMT 309	Survey of Management	3
MKTG 409	Principles of Marketing	3
Technical Elective		
Select one of the following:		3
CHEM 101	Course CHEM 101 Not Found	
CHEM 111	and Fundamentals of Chemistry Laboratory I	
COSC 450	Facility Management Principles and Practices	
COSC 459	Industrial Construction	

Code	Title	Semester Credit Hours
COSC 461	Building Information Modeling System	
COSC 464	Construction Safety II	
COSC 468	Risk Management in the Built Environment	
COSC 474	Facility Management Internship	
COSC 489	Special Topics in...	
COSC 491	Research	
Approved study abroad course		
Mathematics		
MATH 141	Finite Mathematics	3
College and University Requirements		
CARC 101	Cultural and Social Issues in the Natural, Built and Virtual Environment	3
COMM 203	Public Speaking	3
ECON 202	Principles of Economics	3
or ECON 203	or Principles of Economics	
ENGL 104	Composition and Rhetoric	3
ENGL 210	Technical and Business Writing	3
MATH 140	Mathematics for Business and Social Sciences	3
MATH 142	Business Calculus	3
Life and physical sciences		
PHYS 201	College Physics	4
POLS 206	American National Government	3
POLS 207	State and Local Government	3
Select one of the following:		4
CHEM 119	Fundamentals of Chemistry I	
GEOL 101	Principles of Geology	
& GEOL 102	and Principles of Geology Laboratory	
Select one of the following:		3
Select one of the following:		
ARCH 249	Survey of World Architecture History I	
ARCH 250	Survey of World Architecture History II	
ARCH 350	History and Theory of Modern and Contemporary Architecture	
ARTS 150	Art History Survey II	
ENDS 101	Design Process	
American history		6
Life and physical sciences		1
General Education		
Language, philosophy and culture		3
Total Semester Credit Hours		120

A grade of C or better is required in all College of Architecture ~~course courses~~ (ARCH, ARTS, CARC, COSC, ENDS, LAND, URPN and VIST) to satisfy Construction Science degree requirements.

Additional information

Required Proposal [Construction Science Bachelor of Science Degree Evaluation Update.pdf](#)

Forms

Reviewer Comments

Angel Mario Carrizales (carri1214) (11/02/18 2:56 pm): Rollback: Please upload the program's degree evaluation from Howdy that matches the proposed catalog edits.

Angel Mario Carrizales (carri1214) (11/12/18 3:33 pm): Edits made to conform to catalog style guidelines.

Angel Mario Carrizales (carri1214) (11/12/18 3:34 pm): Rollback: Please address the following. 1) Update the hours for COSC 301 and the Capstone requirement on the course list. Per the evaluation, the hours for these requirements are changing. 2) The degree evaluation list COSC 351, COSC 468, and COSC 474 as courses that can be used to meet the technical elective requirement, however, these courses do not appear in the catalog program requirements. Can these course be used to satisfy technical elective requirements? 3) The supporting coursework rules sum to 15 hours, however the area requirement list 18hrs. The removal of MKTG 409 causes this discrepancy. The missing 3 hours need to be accounted for somewhere in another area above work not applied. The assumption made is that you are replacing MKTG 409 with CARC 101. If this is correct, please add CARC 101 to the supporting coursework area.

Shelley Smith (shelleysmith) (11/15/18 9:49 am): Items on the degree evaluation with a star have been updated Angel's comments below. Other concerns were addressed as well.

Angel Mario Carrizales (carri1214) (11/15/18 4:58 pm): Initial concerns addressed.

Terra Bissett (t.bissett) (12/10/18 10:51 am): UCC approved December 2018.

No	AND	E.	COSC 301 (2hrs) <i>3 hours</i>	<i>Course change has been submitted to change from 2 to 3</i>
No	AND	F.	COSC 321 (3hrs)	
No	AND	G.	COSC 325 (3hrs)	
No	AND	H.	COSC 326 (3hrs)	
No	AND	I.	COSC 353 (3hrs)	
No	AND	J.	COSC 364 (1hr)	
No	AND	K.	COSC 375 (3hrs)	
No	AND	L.	COSC 381 (1hr)	
No	AND	M.	COSC 421 (3hrs)	
No	AND	N.	Capstone (4hrs) <i>3 hrs</i>	<i>course change has been submitted to change hours from 4 to 3</i>
No	AND	O.	COSC 463 (3hrs)	
No	AND	P.	COSC 465 (3hrs)	
No	AND	Q.	COSC 475 (3hrs)	
No	AND	R.	COSC 477 (3hrs)	
No	AND	S.	COSC 494 (7hrs)	

Total Credits and GPA 0.000 .00

unofficial evaluation

Area : Supporting Coursework (~~18.000~~ *15 credit hours*) - Not Met

Description **Minimum Grade Rqmt** No grade below a 'C' is acceptable in all College of Architecture courses or any course used as an equivalent substitution for a College of Architecture course.

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course Title	Attribute	Credits	Grade	Source
No		A.	COSC Tech Elect (3hrs)				<i>*Remove 351 course no longer in catalog offered</i>								
No	AND	B.	ACCT 209 (3hrs)												
No	AND	C.	MGMT 209 (3hrs)												
No	AND	D.	MGMT 309 (3hrs)												
No	AND	E.	FINC 409 (3hrs)												
No	AND	F.	MKTG 409 (3hrs)												

Total Credits and GPA 0.000 .00

unofficial evaluation

Area Communication (9.000 credits) - Not Met

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course Title	Attribute	Credits	Grade	Source
No		A.	ENGL 104												
No	AND	B.	Technical Writing 3hrs												
No	AND	C.	COMM 203												

**Replace Rule F with CAPRC 101*

(this will satisfy CD requirement)

The 3 hours that are being removed will satisfy Cultural Discourse Requirement (New Area Requested)

unofficial evaluation

Area Mathematics (6.000 credits) - Not Met

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course Title	Attribute	Credits	Grade	Source
No		A.	MATH 141												
No	AND	B.	MATH 142												
													Total Credits and GPA	0.000	.00

*Remove Math 141 from Rule A
Replace Rule A with Math 140*

unofficial evaluation

Area Life and Physical Sciences (9.000 credits) - Not Met

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course Title	Attribute	Credits	Grade	Source
No		A.	Physics Rqmt take PHYS 201												
No	AND	B.	Science Rqmt (4hrs)												
No	AND	C.	Life & Physical Sc. Rqmt (1hr)												
													Total Credits and GPA	0.000	.00

Remove Chem 101/111 from Rule B, Replace it with Chem 119. Add Geol 102 to Rule B.

Select from CHEM 101/111; GEOL 101
Select from any course with the Life and Physical Sciences [KLPS] attribute.

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.	Lang, Phil, Cult plus ICD 3hrs												
													Total Credits and GPA	0.000	.00

Select any course with the Language, Philosophy and Culture attribute [KLPC] and International and Cultural Diversity attribute [UICD].

Remove ICD from Rule A

unofficial evaluation

Area : Creative Arts (3.000 credits) - Not Met

Description Must make a grade of 'C' or better.

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course Title	Attribute	Credits	Grade	Source
No		A.	Creative Arts plus ICD												
													Total Credits and GPA	0.000	.00

Select from ARCH 250; ARTS 150; ENDS 101; ARCH 350

Add ARCH 249

unofficial evaluation

Area Social and Behavioral Science (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.	ECON 202												
													Total Credits and GPA	0.000	.00

Select from ECON 202 OR ECON 203

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
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No		A.	American History Rqmt 6hrs												
<i>Select from any course with the [KHIS] attribute.</i>															

No	AND	B.	Political Science Rqmt 6hrs												
<i>Take POLS 206 and POLS 207.</i>															

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
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No		A.	Courses not applied												
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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
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No		A.	Writing Requirement												
<i>Only sections of COSC with the Writing attribute [UWRT] may be used to satisfy this requirement. Two courses required.</i>															

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
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No		A.	Int'l & Cultural Diversity 6hr												
<i>Select from courses with the International and Cultural Diversity attribute [UICD] (except sections of BUSN 289 with the UWRT attribute).</i>															

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
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No		A.	Foreign Language Rqmt												
<i>Complete one of the following:</i>															
<i>1. Two years of the same foreign language in High School.</i>															
<i>2. A two semester sequence of the same foreign language for University credit.</i>															

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	Required Term	Subject	Course Title	Attribute	Credits	Grade	Source
No		A.	Residence - Major	12hrs				Select from COSC 300-499; CVEN 446.							
No	AND	B.	Residence 300-499	24hrs				Select from any 300-400 level course at Texas A&M.							
													Total Credits and GPA	0.000	.00

unofficial evaluation

Area : GPR-Major - Not Met

Description : A minimum GPR of 2.000 is required in all major field of studies courses.

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Required Term	Subject	Course Title	Attribute	Credits	Grade	Source
No		A.	Major GPR	57+hrs				Includes ARCH 331, 335; COSC 100-499; CVEN 356-366, 446; VIST 100-499.							
													Total Credits and GPA	0.000	.00

unofficial evaluation

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~~Add Cultural Discourse (CD) Area~~
~~Create Rule A. CARC 101 (3 hrs)~~
↓
added to Area: Supporting Coursework

many of the elements mentioned in
the book are not in the book. It is a
very good book on the subject of
the history of the world.