BACHELOR OF SCIENCE IN
CONSTRUCTION SCIENCE

TEXAS A&M UNIVERSITY
Construction Science

The construction science program at Texas A&M University prepares students to become industry leaders. You will learn to construct high-quality facilities and build relationships that will last.

As an undergraduate, you will gain access to industry professionals and real experience while you earn your degree. You will develop skills you can apply to create, renovate, and expand the built environment.

SECTORS OF INDUSTRY

- Commercial
- Residential
- Industrial
- Heavy Civil

ABOUT THE CONSTRUCTION SCIENCE PROGRAM

Our STEM-coded undergraduate degree combines aspects of business, project planning and construction management. Our interdisciplinary approach brings people, products, and processes together to solve concrete problems.

We have the largest construction science program in the country with about 1000 students in our undergraduate program. We treat our students like family and have a very strong former student network.

Our four-year program is accredited by the American Council for Construction Education (ACCE) and prepares students to enter the construction industry.

Construction science graduates quickly become valued members of construction teams, project engineers, site superintendents, estimators, and project managers. Industry feedback consistently indicates that our graduates are well prepared to face today's industry challenges.

SAME PROGRAM, DIFFERENT CITY

Students can complete their undergraduate degree at the Higher Education Center in McAllen, Texas. Students in McAllen follow the same curriculum and requirements as students in College Station.

PROGRAM SEMESTER CURRICULUM | CATALOG 146 (2023 - 24)

FIRST YEAR | FALL SEMESTER

Listing	Class	Credits
COSC 153	Intro to the Construction Industry	3
COSC 222	Social Issues in the History of the Construction Environment	3
ECON 202 or ECON 203	Principles of Economics	3
HIST 105	American History	3
MATH 140	Mathematics for Business and Social Sciences	3
Semester Credit Hours		**15**

FIRST YEAR | SPRING SEMESTER

ACCT 209	Survey of Accounting Principles	3
COSC 175	Construction Graphics Communication	3
COSC 284	Intro to Applied Workplace Ethics, Etiquette, and Communication	1
ENGL 104	Composition and Rhetoric	3
HIST 106 or HIST 226	American History or Texas History	3
MATH 142	Business Calculus	3
Semester Credit Hours		**16**

SECOND YEAR | FALL SEMESTER

COSC 253	Construction Materials and Methods 1	3
ENGL 210	Technical and Business Writing	3
PHYS 201	College Physics	4
POLS 206	American National Government	3
Life and Physical Sciences Elective[1]		3
General Elective*		1
Semester Credit Hours		**17**

SECOND YEAR | SPRING SEMESTER

COSC 275	Estimating 1	3
CHEM 119 or GEOL 101 & GEOL 102	Fundamentals of Chemistry 1 OR Principles of Geology & Principles of Geology Lab	4
POLS 207	State and Local Government	3
MGMT 209	Business, Government, and Society[3]	3
Creative Arts/IDC Elective[2]		3
Semester Credit Hours		**16**

THIRD YEAR | FALL SEMESTER

COSC 301	Construction Surveying	2
COSC 325	Mechanical, Electrical, and Plumbing Systems in Construction 1	3
COSC 353	Construction Project Management	3
COSC 375	Estimating 2	3
COSC Elective[4a]		3
Semester Credit Hours		**14**

THIRD YEAR | SPRING SEMESTER

Listing	Class	Credits
COSC 321	Structural Systems I	3
COSC 354	Construction Materials and Methods II	3
COSC 463	Construction Law and Ethics	3
COSC 475	Construction Project Planning	3
COSC Elective[4b]		3
Semester Credit Hours		**15**

FOURTH YEAR | FALL SEMESTER

COSC 494	Internship[5]	7
MGMT 309	Survey Management	3
FINC 409	Survey of Finance Principles[6]	3
Semester Credit Hours		**13**

FOURTH YEAR | SPRING SEMESTER

COSC 464	Construction Safety II	3
COSC 465	Advanced Topics in Construction Law	3
COSC 477	Construction Project Controls	3
COSC Capstone[7]		3
COSC Elective[4c]		3
Semester Credit Hours		**15**

Curriculum subject to change

Upper level admissions required for third and fourth year courses

*See advisor for for list of available courses.

[1]Select from University Core curriculum - Life and Physical courses (minimum 1 credit hour; e.g. KINE 120).

[2]Select from ARTS 150, ARCH 249, ARCH 250, ARCH 350, ENDS 101.

[3]The prerequisite to the courses are U2 classification or higher.

[4a]Select from COSC 468 - Risk Management in the Built Environment, COSC 489 - Special Topics in... .

[4b]Select from COSC 303 - High Performance Residential Building, COSC 450 - Facility Management Principles and Practices, COSC 459 - Industrial Construction.

[4c]Select from COSC 326 - MEP 2, COSC - Soil and Structural Analysis, COSC 461 - Building Information Modeling System, COSC 489 - Special Topics in... .

[4d]Select from COSC 326 - MEP II, COSC 421 - Soil and Structural Analysis, COSC 450 - Facility Management Principles and Practices, COSC 459 - Industrial Construction, COSC 461 - Building Information Modeling System, COSC 464 - Construction Safety II, COSC 468 - Risk Management in the Built Environment, COSC 489 - Special Topics in... .

[5]Internship must be fall or spring semester. No COSC courses should be taken at Texas A&M during an official internship.

[6]300 - 400 level business courses MUST be taken at Texas A&M. A student does not need to be in upper level to take these courses. The prerequisite to these courses is U3 or U4 classification.

[7]Select from COSC 440 - Interdisciplinary Capstone, COSC - 441 Residential Capstone, COSC 442 - Commercial Capstone, COSC 443 - Industrial Capstone (spring semester only), COSC 446 - Specialty Capstone. Capstone MUST be taken last semester. A student's capstone preference is NOT guaranteed.