

BACHELOR OF SCIENCE IN CONSTRUCTION MANAGEMENT AND ARCHITECTURAL TECHNOLOGY

This is an interdisciplinary undergraduate degree program from the College of Architecture and Armour College of Engineering to prepare students for positions in the architecture, engineering, and construction (AEC) industry that are explicitly not engineers nor architects.

Required Courses

Code	Title	Credit Hours
Introduction to the Profession Requirements		(3)
ARCH 100	Introduction to Architecture ¹	3
or CAE 110 & CAE 111	Professional Practice I and Professional Practice II	
Architectural Requirements		(30)
ARCH 107	Design Communication I: Introduction	3
ARCH 108	Design Communication II: Advanced	3
ARCH 113	Architecture Studio I: Elements	6
ARCH 114	Architecture Studio II: Unit	6
ARCH 230	Systems: Structural Analysis	3
ARCH 413	Architectural Practice	3
ARCH 486	Structures II: Building Design	3
CAE 468	Architectural Design	3
Construction Engineering and Management Requirements		(27)
CAE 100	Introduction to Engineering Drawing and Design	2
CAE 101	Introduction to AutoCAD Drawing and Design	2
CAE 105	Surveying	2
CAE 470	Construction Methods and Cost Estimating	3
CAE 471	Construction Planning and Scheduling	3
CAE 472	Construction Site Operation	3
CAE 473	Construction Contract Administration	3
CAE 474	Introduction to Building Information Modeling	3
CAE 495	Capstone Senior Design	3

INTM 407	Construction Technology	3
Business and Administration Requirements		(12)
BUS 210	Accounting Principles	3
ECON 211	Introduction to Economics	3
Select 6 credit hours from the following:		6
BUS 221	Business Statistics	3
BUS 341	Business Ethical and Legal Environment	3
BUS 371	Marketing Fundamentals	3
BUS 382	Business Economics	3
ECON 423	Economics of Capital Investments	3
EMGT 470	Project Management	3
INTM 441	Supply Chain Management	3
STAT 225	Introductory Statistics	3
Major Electives		(12)
Select 12 credit hours of major electives		12
Mathematics Requirements		(5-6)
MATH 151	Calculus I	5-6
or MATH 119 & MATH 122	Geometry for Architects and Introduction to Calculus	
or MATH 119 & STAT 225	Geometry for Architects and Introductory Statistics	
Physics Requirement		(4)
PHYS 200	Introduction to Energy, Waves, Materials, and Forces	4
or PHYS 123	General Physics I: Mechanics	
Humanities and Social Science Requirements		(21)
See IIT Core Curriculum, sections B and C		21
Interprofessional Projects (IPRO) Requirements		(6)
See IIT Core Curriculum, section E		6
Total Credit Hours		120-121

¹ For those who take CAE 110 and CAE 111, an additional free elective (minimum of 1 credit hour) will be required to achieve the minimum of 120 total credit hours for the degree program.

Bachelor of Science in Construction Management and Architectural Technology Curriculum

				Year 1
Semester 1	Credit Hours	Semester 2	Credit Hours	
ARCH 100 ¹	3	MATH 151 or 119 <i>and</i> 122	5-6	
CAE 100	2	CAE 101	2	
CAE 105	2	ECON 211	3	
BUS 210	3	Humanities, Social Sciences or COM Elective ³	3	
Humanities 200-level	3	Humanities or Social Sciences Elective	3	
	13		16-17	
				Year 2
Semester 1	Credit Hours	Semester 2	Credit Hours	
ARCH 107	3	ARCH 108	3	
ARCH 113	6	ARCH 114	6	
PHYS 200 or 123	4	ARCH 230	3	
Humanities or Social Sciences Elective	3	Business and Administration Elective	3	
	16		15	
				Year 3
Semester 1	Credit Hours	Semester 2	Credit Hours	
CAE 468	3	CAE 472	3	
CAE 470	3	CAE 473	3	
CAE 471	3	CAE 474 or ARCH 437	3	
ARCH 486	3	INTM 407	3	
Humanities or Social Sciences Elective	3	I PRO Elective	3	
	15		15	
				Year 4
Semester 1	Credit Hours	Semester 2	Credit Hours	
Major Elective	3	ARCH 413	3	
Major Elective	3	CAE 495	3	
I PRO Elective	3	Major Elective	3	
Business and Administration Elective	3	Major Elective	3	
Humanities or Social Sciences Elective	3	Humanities or Social Sciences Elective	3	
	15		15	

Total Credit Hours: 120-121

¹ CAE 110 and CAE 111 (2 credits combined) can also be taken in place of ARCH 100. An additional free elective (minimum of 1 credit hour) will be required for those who take CAE 110 and CAE 111 in place of ARCH 100 and MATH 151 to reach a minimum of 120 total credit hours for the degree program.

² MATH 119 (3 credits) and MATH 122 or STAT 225 (3 credits) are the recommended courses to meet the Mathematics requirement; however, MATH 151 (5 credits) can also be taken to meet this requirement. See footnote (1) regarding the total credit hours requirement if taking MATH 151.

³ AAH 120 is strongly recommended to fulfill the Humanities/Social Sciences/COM elective requirement.