

DEPARTMENT OF ARCHITECTURAL TECHNOLOGY

DEGREE CHECKLIST FOR ASSOCIATE IN APPLIED SCIENCE AND BACHELOR OF TECHNOLOGY IN ARCHITECTURAL TECHNOLOGY

For students entering the program Spring 2018 to Spring 2019.

ASSOCIATE DEGREE

GENERAL EDUCATION REQUIRED AND FLEXIBLE COMMON CORE (20 TO 21 CREDITS)

At least 1 course designated WI is required from the College Option or Gen Ed Flexible Common Core.

COURSE	COURSE TITLE	PRE/CO REQUISITES	CREDITS
ENG 1101	English Composition I (EC)	Prereq: CUNY Read and Write Proficiency	3 credits.
MAT 1275	College Algebra and Trigonometry or higher (MQR)	Prereq: CUNY Placement	4 credits.
PHYS 1433 ²	General Physics I: Algebra Based or (LPS, WI)	Prereq or Coreq: MAT 1275	4 to 5 credits.
PHYS 1441 ²	General Physic I: Calculus Based (LPS, WI)	Prereq or Coreq: MAT 1475	
ARCH 2321 ²	History of Architecture from 1900 to Present (CE,WI)	Prereq: ENG 1101; and one of the following: ARCH 1121 or ARTH 1101 or ARTH 1102 or ARTH 1103 or ARTH 1104	3 credits.
	*Flexible Common Core Course: WCGI, IS, SW		3 credits.
	*Flexible Common Core Course: WCGI, IS, SW		3 credits.

PROGRAM-SPECIFIC DEGREE REQUIREMENTS (44 CREDITS)

Double Duty² Specific courses listed indicate double duty courses, i.e., program degree requirements that also meet general education requirements in that category.

ARCH 1101	Introduction to Architecture		2 credits.
ARCH 1112	Architectural Design I: Foundations and Visual Studies	Prereq or Coreq: ARCH 1101	5 credits.
ARCH 1121	History of World Architecture to 1900	Prereq or Coreq: ENG 1101	2 credits.
ARCH 1212	Architectural Design II: Foundations and Visual Studies	Prereq: ARCH 1101 and (ARCH1112 with grade C or higher OR (ARCH 1110 and ARCH 1191 with a grade of C or higher))	5 credits.
ARCH 1231	Building Technology I	Prereq: ARCH 1101 and CUNY Read, Math Proficiency	3 credits.
ARCH 1250	Site Planning	Prereq: ARCH 1101 Prereq or Coreq: MAT 1275 or higher	2 credits.
ARCH 2312	Architectural Design III	Prereq: (ARCH 1212 with grade C or higher) or (ARCH 1210 and ARCH 1291, both with a grade of C or higher)	5 credits.
ARCH 2331	Building Technology II	Prereq or Coreq: ARCH 1250 with a grade of C or higher; Prereq or Coreq: ARCH 1112 and MAT1275 or higher	3 credits.
ARCH 2381	Structures I	Prereq: ENG 1101; Prereq or Coreq: MATH 1275 or higher, PHYS 1433 or PHYS 1441 or higher	2 credits.
ARCH 2412	Architectural Design IV	Prereq: ARCH 1250 and (ARCH 2310 or ARCH 2312 with grade C or higher) and (ARCH 1291 or ARCH 1212 with grade C or higher) Prereq or Coreq: (ARCH 2321) and (ARCH 1230 or ARCH 2331) with a grade of C or higher	5 credits.
ARCH 2431	Building Technology III	Prereq: MAT 1275 and (ARCH 1230 with grade C or higher or ARCH 2331 with grade C or higher)	4 credits.
ARCH 2481	Structures II	Prereq: (ARCH 2480 or ARCH 2381), MATH 1275 or higher, PHYS1433 or higher	3 credits.
ARCH XXXX	Architectural Technology Elective		3 credits.

ASSOCIATE IN APPLIED SCIENCE IN ARCHITECTURAL TECHNOLOGY: 64 TO 65 CREDITS. MINIMUM REQUIRED LIBERAL ARTS AND SCIENCES CREDITS: 20 CREDITS.

BACHELOR'S DEGREE

GENERAL EDUCATION FLEXIBLE COMMON CORE AND COLLEGE OPTION REQUIREMENTS (21 TO 24 CREDITS)

¹ Students must take at least one advanced liberal arts course or choose two sequential courses in a foreign language.

At least 1 course designated WI is required from the College Option or Gen Ed Flexible Common Core.

COURSE	COURSE TITLE	PRE/CO REQUISITES	CREDITS
ENG 1121	English Composition II (EC)	Prereq: ENG 1101	3 credits.
ARCH 3522 ²	History of New York City Architecture (USED, WI)	Prereq: ENG 1101 and one of the following ARCH 1121 or ARTH1101 or 1102 or 1103 or 1104	3 credits.
	*Flexible Common Core Course: WCGI, IS, SW		3 credits.
	*Additional Flexible Common Core Course (WCGI, USED, IS, SW, CE)		3 credits.
COM 1330	Public Speaking or higher	Prereq: CUNY Read and Write Proficiency	3 credits.
	*Interdisciplinary Course (ID)		3 credits.
	*Liberal Arts Elective (LibArt) ¹ or Foreign Language Sequence (FL) ¹		3 credits.
	*Liberal Arts Elective (LibArt) or Foreign Language Sequence (FL) <small>If needed to reach 42 credits in liberal arts and sciences</small>		3 credits.

PROGRAM-SPECIFIC DEGREE REQUIREMENTS (28 TO 31 CREDITS)

ARCH 4740 is not required for students who took ARCH 3630

ARCH 2370	Building Systems	Prereq: ARCH 1230 with grade C or higher	3 credits.
ARCH 3510	Architectural Design V	Prereq: (ARCH 2412 or ARCH 2410) with grade C or higher or an AAS degree in an architecturally related field and (ARCH 1291 or ARCH 1212) with grade C or higher	4 credits.
ARCH 3531	Building Technology IV	Prereq: (ARCH 2431 with grade C or higher) or (ARCH 2330 with grade C or higher)	3 credits.
ARCH 3610 or	Architectural Design VI or	Prereq: ARCH 3510 and (ARCH 1291 or ARCH 1212) all with grade C or higher	5 credits.
ARCH 3630	Advance Detailing Studio	Prereq: (ARCH 3531 or ARCH 2430) and ARCH 3510, both with grade C or higher, and (ARCH 3580 or ARCH 2480 or ARCH 2381)	
ARCH 4710	Architectural Design VII: Urban Design	Prereq: (ARCH 3610 or ARCH 3630) and (ARCH 1291 or ARCH 1212) all with grade C or higher	5 credits.
ARCH 4740	Detail and Construction Technologies for Existing Buildings	Prereq: ARCH 2430 with grade C or higher; or CMCE 1204 or CMCE 1224 or CMCE 2457	3 credits.
ARCH 4810 or	Architectural Design VIII: Special Topics or	Prereq: ARCH 4710 and (ARCH 1291 or ARCH 1212) all with grade C or higher	5 credits.
ARCH 4830	Construction Technology: Special Topics	Prereq: ARCH 4710 and (ARCH 1291 or ARCH 1212) all with grade C or higher	
ARCH 4861	Professional Practice	Prereq: ARCH 2430 or ARCH 3531 with grade of C or higher	3 credits.

PROGRAM SPECIFIC ELECTIVES

Take as needed to equal 120 credits

ARCH XXXX	Architectural Technology Elective		3 credits.

BACHELOR OF TECHNOLOGY IN ARCHITECTURAL TECHNOLOGY: 120 CREDITS. MINIMUM REQUIRED LIBERAL ARTS AND SCIENCES CREDITS: 42 CREDITS.

PROGRAM-SPECIFIC ELECTIVE COURSES

ARCH ELECTIVE

Courses are 3 credits except where noted ().

ARCH Electives (AAS and BTech)

ARCH 3550 Building Performance Workshop
 ARCH 3551 Sustainability: History and Practice
 ARCH 3570 Lighting and Acoustics
 ARCH 3590 Parametric Computation
 ARCH 3591 Computer-Assisted Architectural Animation
 ARCH 3609 Integrated Software in the Architectural Office
 ARCH 3631 Advanced Material Workshop
 ARCH 3640 Historic Preservation Theory and Practice
 ARCH 3662 Government Regulations and Approvals
 ARCH 3690 Intermediate Computation and Fabrication
 ARCH 3691 Advanced Design and Building Information Modeling
 ARCH 3900 Study Abroad
 ARCH 4709 Advanced 3D Modeling and Rendering
 ARCH 4740 Detail and Construction of Existing Buildings
 ARCH 4780 Case Studies in Structural Engineering
 ARCH 4791 Advanced Building Information Modeling and Integrated Project Delivery
 ARCH 4831 Design to Build
 ARCH 4890 Computation and Fabrication Performative Architecture
 ARCH 4900 Internship in Architectural Technology

ARCH Electives (ONLY BTech)

ARCH 4750 Advanced Simulation for High Performance Buildings
 ARCH 4780 Case Studies in Structural Engineering
 FMGT 3620 Building Systems I
 FMGT 4720 Building Systems II
 FMGT 4780 Programming and Introduction to Space Planning
 MAT 1475 Calculus I (4)

* For progression in graduation from the Architectural Technology program, a minimum grade of "C" is required in the following courses in the major: all required Design and Construction Technology Studios (ARCH 1112, ARCH 1212, ARCH 2312, and ARCH 2412, ARCH 3510, ARCH 3610, ARCH 3630, ARCH 4710, ARCH 4810 and ARCH 4830) and all required Building Technology courses (ARCH 1231, ARCH 2331, ARCH 2431, ARCH 3531).

* Students may not enroll in the multiple studios concurrently, i.e. students may enroll in only one course per semester from the following list: ARCH 3610, ARCH 3630, ARCH 4710, ARCH 4810, ARCH 4830

Footnotes

¹ Examples of advanced liberal arts courses include SOC 3301 (prerequisite: ECON 1101); SOC 2403 (prerequisite: PSY 1101). In meeting their general education requirements overall, students must take at least one advanced liberal arts course or choose two sequential courses in one of the foreign language (FL) course offerings, such as Arabic (ARB), Spanish (SPA), Chinese (CHN), or French (FREN).

² Specific courses listed indicate double duty courses, i.e., program degree requirements that also meet general education requirements. Choosing to take advantage of double duty can speed up progress toward graduation and increase elective credits. Consult with an advisor about your options.

SAMPLE COURSE OF STUDY

For Associate in Applied Science and Bachelor of Technology in Architectural Technology.

SEMESTER 1

(Total Credits 14)

ARCH 1112	Architectural Design I: Foundations and Visual Studies	5 credits.
ARCH 1101	Introduction to Architecture	2 credits.
ENG 1101	English Composition I	3 credits.
MAT 1275	College Algebra and Trigonometry or higher	4 credits.

SEMESTER 2

(Total Credits 16)

ARCH 1212	Architectural Design II: Foundations and Visual Studies	5 credits.
ARCH 1231	Building Technology I	3 credits.
ARCH 1250	Site Planning	2 credits.
ARCH 1121	History of World Architecture to 1900	2 credits.
PHYS 1433	General Physics I: Algebra Based	4 credits.

SEMESTER 3

(Total Credits 16)

ARCH 2312	Architectural Design III	5 credits.
ARCH 2331	Building Technology II	3 credits.
ARCH 2381	Structures I	2 credits.
FlexCore		3 credits.
ARCH 2321	History of Architecture from 1900 to Present	3 credits.

SEMESTER 4

(Total Credits 18)

ARCH 2412	Architectural Design IV	5 credits.
ARCH 2431	Building Technology III	4 credits.
ARCH 2481	Structures II	3 credits.
ARCH Elective	Architectural Technology Elective	3 credits.
FlexCore		3 credits.

SEMESTER 5

(Total Credits 16)

ENG 1121	English Composition II	3 credits.
ARCH 2370	Building Systems	3 credits.
ARCH 3510	Architectural Design V	4 credits.
ARCH 3522	History of New York City Architecture	3 credits.
ARCH 3531	Building Technology IV	3 credits.

SEMESTER 6

(Total Credits 14)

ARCH 3610/3630	Architectural Design VI: Advance Design/Advance Detailing Studio	3 credits.
ARCH 4740	Detail and Construction Technologies for Existing Buildings	3 credits.
FlexCore		3 credits.
COM 1330	Public Speaking or higher	3 credits.

SEMESTER 7

(Total Credits 16)

ARCH 4710	Architectural Design VII: Urban Design	5 credits.
ARCH Elective	Architectural Technology Elective	3 credits.
LibArts		3 credits.
ID		3 credits.

SEMESTER 8

(Total Credits 16)

ARCH 4810/4830	Architectural Design VIII: Special Topics/ Construction Technology: Special Topics	5 credits.
ARCH 4861	Professional Practice	3 credits.
Flex Core or BTech Elective		3 credits.
LibArts		3 credits.