

Architectural Engineering Design Technician (ARCED)

Completed by: Stephanie Ling, 12/2022

Full-Time Program Map

Year 1

Quarter 1

Course Prefix/Number	Course Title	Credit Hours	Guaranteed Quarters This Course Will Be Offered	Advising Notes (Specific to this course)
ARCH 1005	AEC Industry	6	FALL, SPRING	"Light Your Fire" course
ENGL 1225	Applied Communications I	4.5	All	Communication Gen Ed
INFO 1001	Information Systems and Literacy	4.5	All	Professionalism/Life Skills & Information Literacy Gen Ed

Quarter 2

Course Prefix/Number	Course Title	Credit Hours	Guaranteed Quarters This Course Will Be Offered	Advising Notes (Specific to this course)
MATH 1240	Technical Mathematics	4.5	All	Quantitative/Numeracy Skills Gen Ed
ARCH 1105	Revit Fundamentals	4.5	All	Recommended Req ARCH 1005
ARCH 1400	Building Materials	4.5	WINTER	Pre/Co Req Arch 1005 or IA

Quarter 3

Course Prefix/Number	Course Title	Credit Hours	Guaranteed Quarters This Course Will Be Offered	Advising Notes (Specific to this course)
CNST 1020	Blueprint Reading	4.5	All	
ARCH 1250	Revit Project Management	4.5	WINTER, SPRING, SUMMER	Prereq ARCH 1105 or IA
ARCH 1450	Building Assemblies	9	SPRING	Prereq ARCH 1400 or IA

Quarter 4

Course Prefix/Number	Course Title	Credit Hours	Guaranteed Quarters This Course Will Be Offered	Advising Notes (Specific to this course)
CNST 1030	Digital Blueprint Applications	4.5	All	Prereq CNST 1020; Recommended Req INFO 1001

Course Prefix/Number	Course Title	Credit Hours	Guaranteed Quarters This Course Will Be Offered	Advising Notes (Specific to this course)
ARCH 1800	Building MEP Systems Fundamentals	9	WINTER, SUMMER	Pre/Co Req ARCH 1105 or IA; Recommended Req ARCH 1005

Year 2

Quarter 5

Course Prefix/Number	Course Title	Credit Hours	Guaranteed Quarters This Course Will Be Offered	Advising Notes (Specific to this course)
ARCH 1000	Appreciation of Architecture	4.5	FALL, SUMMER	Critical Thinking/Creativity Recommended Gen Ed
ARCH 2810 or ARCH 2820 or ARCH 2400	Revit Electrical or Revit Mechanical or Revit Structural	9	(ARCH 2810 = FALL, SPRING), (ARCH 2820 = FALL, SPRING), (ARCH 2400 = FALL, SUMMER)	Pre Req: (ARCH 2810 = ARCH 1800, ARCH 1250 or IA), (ARCH 2820 = ARCH 1800, ARCH 1250 or IA), (ARCH 2400 = ARCH 1250 or IA); Recommended Req for all = CNST 1030

Quarter 6

Course Prefix/Number	Course Title	Credit Hours	Guaranteed Quarters This Course Will Be Offered	Advising Notes (Specific to this course)
PHYS 1010	Applied Physics	4.5	All	Scientific Inquiry Gen Ed
ARCH 2815 or ARCH 2825 or ARCH 2450	Revit Low Voltage or Revit Plumbing or Revit Structural Detailing	4.5	WINTER, SUMMER	Pre Req: (ARCH 2815 = ARCH 1800, ARCH 1250 or IA), (ARCH 2825 = ARCH 1800, ARCH 1250 or IA), (ARCH 2450 = ARCH 2400); Recommended Req: (ARCH 2815 = ARCH 2810, CNST 1030), (ARCH 2825 = ARCH 2820, CNST 1030), (ARCH 2450 = CNST 1030)
ARCH 2850	Building Engineering Studio	4.5	WINTER	Pre Req = ARCH 2400 or ARCH 2810 or ARCH 2815 or ARCH

Course Prefix/Number	Course Title	Credit Hours	Guaranteed Quarters This Course Will Be Offered	Advising Notes (Specific to this course)
				2820 or ARCH 2825 or IA; Recommended Req = CNST 1030

Quarter 7

Course Prefix/Number	Course Title	Credit Hours	Guaranteed Quarters This Course Will Be Offered	Advising Notes (Specific to this course)
ARCH 2860 or Elective	AEC Internship (2860) or Elective from ARCH, SCET, CNST, ELTR, HVAC, PLMB, DRAF	4.5-9	SPRING	Pre Req: (ARCH 2860 = ARCH 2300 or ARCH 2400 or ARCH 2810 or ARCH 2815 or ARCH 2820 or ARCH 2825 or IA), (Elective = see course requirements) Recommended Req = CNST 1030

Additional Notes:

Part-Time Program Map

Year 1

Quarter 1

Course Prefix/Number	Course Title	Credit Hours	Guaranteed Quarters This Course Will Be Offered	Advising Notes (Specific to this course)
ARCH 1005	AEC Industry	6.0	FALL, SPRING	"Light Your Fire" Course
ARCH 1000	Appreciation of Architecture	4.5	FALL, SUMMER	Critical thinking/Creativity/Social-Cultural Awareness Gen Ed.

Additional Notes:

Quarter 2

Course Prefix/Number	Course Title	Credit Hours	Guaranteed Quarters This Course Will Be Offered	Advising Notes (Specific to this course)
ARCH 1400	Building Materials	4.5	WINTER	
ARCH 1105	Revit Fundamentals	4.5	All	

Additional Notes:

Quarter 3

Course Prefix/Number	Course Title	Credit Hours	Guaranteed Quarters This Course Will Be Offered	Advising Notes (Specific to this course)
ARCH 1450	Building Assemblies	9	SPRING	

Additional Notes:

Quarter 4

Course Prefix/Number	Course Title	Credit Hours	Guaranteed Quarters This Course Will Be Offered	Advising Notes (Specific to this course)
INFO 1001	Information Systems and Literacy	4.5	All	Gen Ed
CNST 1020	Blueprint Reading	4.5	All	

Year 2**Quarter 5**

Course Prefix/Number	Course Title	Credit Hours	Guaranteed Quarters This Course Will Be Offered	Advising Notes (Specific to this course)
ARCH 1800	Building MEP Systems Fundamentals	9	WINTER, SUMMER	
ARCH 1250	Revit Project Management	4.5	WINTER, SPRING, SUMMER	

Quarter 6

Course Prefix/Number	Course Title	Credit Hours	Guaranteed Quarters This Course Will Be Offered	Advising Notes (Specific to this course)
CNST 1030	Digital Blueprint Applications	4.5	All	
MATH 1240	Applied Mathematics	4.5	All	

Quarter 7

Course Prefix/Number	Course Title	Credit Hours	Guaranteed Quarters This Course Will Be Offered	Advising Notes (Specific to this course)
ARCH 2400 or ARCH 2810 or ARCH 2820 or	Revit Structural (2400) or Revit Electrical (2810) or Revit Mechanical (2820)	9	All offered FALL, SPRING	See Focus Paths (Structural, Mechanical or Electrical) to select the correct courses

Quarter 8

Course Prefix/Number	Course Title	Credit Hours	Guaranteed Quarters This Course Will Be Offered	Advising Notes (Specific to this course)
ARCH 2450 or ARCH 2815 or ARCH 2825 or	Revit Structural Detailing or Revit Low-Voltage (2815) or Revit Plumbing (2825)	4.5	All offered WINTER, SUMMER	See Focus Paths (Structural, Mechanical or Electrical) to select the correct courses

Year 3**Quarter 9**

Course Prefix/Number	Course Title	Credit Hours	Guaranteed Quarters This Course Will Be Offered	Advising Notes (Specific to this course)
ARCH 2860 OR Elective	AEC Internship (2860) or select available elective from listed prefixes: ARCH, SCET, CNST, ELTR, HVAC, PLBG, DRAF, DIMA	4.5	2860 = All; Electives = see courses	AEC Internships could happen any quarter since there are not class meetings (just instructor check-ins).

Quarter 10

Course Prefix/Number	Course Title	Credit Hours	Guaranteed Quarters This Course Will Be Offered	Advising Notes (Specific to this course)
PHYS 1010	Applied Physics	4.5	All	
ENGL 1225	Applied Communications I	4.5	All	

Quarter 11

Course Prefix/Number	Course Title	Credit Hours	Guaranteed Quarters This Course Will Be Offered	Advising Notes (Specific to this course)
ARCH 2850	Building Engineering Studio	4.5	WINTER, SUMMER	