Architectural Technology Curriculum Sequence

With ARCH 281/282/283		ARCH 1	70 - Tech I		ARC	H 172-Tech II		ARC	H 173 - Tech III
2nd year 2+4 Option	ARCH 221	Materials & Methods I	1.5 cr.	ARCH 222	Materials & Methods II	1.5 cr.	ARCH 223	Materials & Methods III	1.5 cr.
3rd year PT Evening Option	wk 1-5	Introduction to Sustainable Building		wk 1-5	Introduction to Building Resource Us	e	wk 1-5	Introduction to Concrete Construct	tion
		Building Systems Selection			Site Analysis, Building Metrics, Plan E	fficiency		Site Cast and Precast Framing Syste	ms
		Foundations Systems			and Water Use			Low/Steep Slope Roofing	
		Wood Framing Systems & Heavy Timber	r		Steel frame construction bay analysis			Sustainability in Envelope Design	
		Brick Masonry and Masonry Wall Const	ruction		Wall section for a masonry veneer bu	Iding		Wall Section/Axonometric Detail	
						-		of an Inside/Outside Corner of Enve	lope
		AF	RCH 161 A			ARCH 161 B			
	ARCH 251	Structural Systems I	1.5 cr.	ARCH 252	Structural Systems II	1.5 cr.	ARCH 253	Structural Systems III	1.5 cr.
	wk 6-11	Introduction to Structures		wk 6-10	Statics		wk 6-10	Wood Structures	
		Measurements and Structural Metrics			Forces and Systems of Forces			Design Methodologies	
		Structural Intuition			Moment and Reactions			Designing in Wood (Systems, Beam	s & Columns)
		Mechanics of Materials			Types of Support			Introduction to Trusses	
		Structural Loading			Shear and Moment Diagrams			Truss Analysis	
		-			Bending Stress and Deflection			Wood Design Project	
		AF	RCH 271 A		Ũ	ARCH 271 B		3 ,	ARCH 272 A
With ARCH 381/382/383		ARCH 274	4 - Tech IV		ARCH	1 275 - Tech V		ARC	H 276 - Tech VI
3rd year 2+4 Option	ARCH 354	Structural Systems IV	1.5 cr.	ARCH 355	Structural Systems V	1.5 cr.	ARCH 356	Structural Systems VI	1.5 cr.
4th year PT Evening Option	wk 1-5	Steel Structures		wk 1-5	Concrete Structures		wk 1-5	Masonry Structures	
		Designing in Steel			Designing in Concrete			Designing in Masonry	
		Design of Steel Tension Elements			Types of Concrete			Foundation Design	
		Design of Steel Beams & Columns			Design of Concrete Beams & Columns			Structural Materials Investigation F	Report
		Steel Design Project & Steel Lab			Pre-stressing			Ŭ	
		AF	RCH 272 B			ARCH 273 A			ARCH 273 B
	ARCH 291	Building Systems I	1.5 cr.	ARCH 292	Building Systems II	1.5 cr.	ARCH 293	Building Systems II	1.5 cr.
	wk 6-11	Mechanical Systems		wk 6-10	Water, Climate and Energy Systems		wk 6-10	Lighting and Electrical Systems	
		Thermal Comfort			Water and Basic Design			Fundamentals of Electricity	
		Solar Geometry and Shading			Wate Supply and Demand			Fundamentals of Lighting	
		Heat Flow and Balance Point Temperatu	ure		Building Water Distribution			Lighting Fixture Design	
		Passive Heating						Electric Lighting Analysis	
								Daylighting Analysis	
			RCH 261 A			ARCH 262 A			ARCH 263 A
With ARCH 481/482/483		ARCH 377	- Tech VII		ARCH 3	78 - Tech VIII		ARC	H 379 - Tech IX
4th year 2+4 Option	ARCH 394	Building Systems IV	1.5 cr.	ARCH 395	Building Systems V	1.5 cr.	ARCH 396	Building Systems VI	1.5 cr.
5th year PT Evening Option	wk 1-5	Mechanical Systems		wk 1-5	Water, Climate and Energy Systems		wk 1-5	Lighting and Electrical Systems	
		Cooling Loads and Systems			Acoustics Fundamentals			Building Electrical Distribution	
		HVAC Distribution			Acoustical Analysis of Enclosed Space	s		Lighting Simulation	
		Natural Ventilation			Acoustical Room Design			Building Energy Simulation	
		Sustainable Thermal Systems			Solar and Renewable Systems			Building Envelope Simulation	
					Operating Costs				
					EUI and NetZero Analysis				
			RCH 261 B			ARCH 262 B			ARCH 263 B
		Materials & Methods IV	1.5 cr.		Materials & Methods V	1.5 cr.		Materials & Methods VI	1.5 cr.
	wk 6-11	Wood and Masonry		wk 6-10	Steel and Encolsure Systems		wk 6-10	Interior Construction and Finishes	
		Exterior Finishes for Wood			Light Gauge Steel Framing			Selecting Interior Finishes	
		Interior Finishes for Wood			Windows and Doors			Interior Walls and Partitions	
		Stone and Concrete Masonry			Cladding with Metal and Glass			Finished Ceilings and Floors	