

MS ARCH Design Computing CURRICULUM

A minimum of 45 quarter credits is required to complete the program, divided between 24 credits of coursework required of each MS student and 21 credits of selectives picked from available courses to fit the individual interests and specialization. The five core courses establish a frame of reference and action within which design computing can be understood, and help the student develop and explore their individual area of thesis research, culminating in a written thesis. The 21 selective credits are found in course work that develops digital media skills, explores application areas, or lets the student explore topics of personal interest. While selective opportunities can be found in many departments, they must be approved by the program director in order to be counted toward the MS degree.

	AUTUMN	WINTER	SPRING
YEAR 1	ARCH 587 Design Computing Theory (3)	Selective (3)	ARCH 597 Research Practicum (5)
	ARCH 588 Research Practice (3)	Selective (3)	Selective (3)
	Selective (3)	Selective (3)	Selective (3)
	Selective (3)	Selective (3)	
	12 CREDITS	12 CREDITS	12 CREDITS
YEAR 2	ARCH 599 Thesis Research Preparation (4)	ARCH 700 Master's Thesis (9)	ARCH 700 Master's Thesis (if needed)
	Selective (3)		
	Selective (3)		
	10 CREDITS	9 CREDITS	

Design Computing Selectives	credits	qtr
ARCH 478 - CAD and Working Drawings	(3)	Aut
ARCH 481 - 3D Modeling and Rendering	(3)	Aut, Sum
ARCH 482 - Web Weaving	(3)	Win
ARCH 486 - Algorithmic Geometry in Architectural Design	(3)	Spr
ARCH 487 - Fundamentals of BIM	(3)	Aut
ARCH 498 - Creating Responsive Environments	(3)	Spr
ARCH 526 - Topics in High Performance Building	(3)	??
ARCH 527 - Introduction to Digital Design & Fabrication	(3)	Aut, Wtr
ARCH 528 - Digital Design for Fabrication & Construction	(3)	Wtr
ARCH 529 - Advanced Digital Projects	(3)	Spr
ARCH 533 - Advanced Environmental Systems	(3)	Spr
ARCH 582 - Computational Lighting Design	(3)	Win
ARCH 598 - Performative Design Practices	(3)	Win
ARCH 598 - AEC Seminar (with Arch/CM 404)	(3)	Win
ARCH 599 - Independent Study	(varies)	(varies)
CSE 440 - Introduction to HCI	(5)	Aut, Sum
DXARTS 470 - Sensing and Control Systems for Digital Arts	(5)	Aut, Sum
HCDE 455 - User Interface Design	(4)	AutHCDE 418
- User Experience Design	(5)	
IND E 549 - Human Factors in Engineering Design	(3)	Spr

Note 1: The Master of Science in Architecture curriculum includes a total of 45 course credits. Generally, the requirements for this degree, including thesis, can be fulfilled in 4 or 5 quarters. The degree must be completed on the University of Washington's Seattle campus.

Note 2: 21 credits of design computing courses can be selected from among Department of Architecture courses listed here, or other appropriate University of Washington courses numbered 400 and above as approved by the program director.