Technical Teaching in Architecture Graduate Certificate

The Technical Teaching Certificate program prepares graduate students in the fields of architecture and interior architecture for teaching positions on building technology in academic and professional settings. Building technology includes subjects such as structural design, construction materials and processes, and environmental control systems. Students investigate curricula, tools, and strategies for teaching and concentrate on improving their comprehensive knowledge of the technical subjects. It is designed for graduate students enrolled in the postprofessional MS programs in architecture and interior architecture, but graduate students in the professional MArch Track I and II programs may apply. Individuals who hold a master's degree and at least one professional degree in architecture or interior architecture may apply to this certificate program without being concurrently enrolled in a master's program at the University of Oregon.

Certificate candidates must demonstrate advanced proficiency in at least one technical subject area (structures, construction, or environmental control) and have the background necessary to teach at the introductory level in the other two. This requirement may be fulfilled by submitting a portfolio documenting professional experience or prior course work to the technology faculty, or it can be met by completing a sequence of advanced courses.

The Technical Teaching Certificate is a graduate certificate program in the Department of Architecture that is available to all graduate students in Architecture. The Technical Teacher certificate is design for student interested in the design and building technology integration, and for those interested in teaching in their architectural careers, continuing the commitment to sustainability, curricular innovation, and leadership in the field.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

- Develop an area of experience in one or more subject areas in curriculum, understand critical principles and concepts of sustainability within the discipline.
- Communicate technical material effectively through curricular development, tools, strategies, and innovation specific to architectural design.
- Conduct a self-appraisal, learning-style inventory, and a peer-review of instructional skills; identify successes and areas of improvement; and articulate a philosophy of teaching.

Certificate in Technical Teaching in Architecture Requirements

A minimum of 24 credits is required for the certificate. A maximum of 12 credits may be counted for both the certificate and a graduate degree program, but required courses for the degree will not satisfy certificate electives.

Code	Title	Credits
Technical Teaching Core Requirements		**12**
Sample courses include:		
ARCH 580	Supervised Design Teaching	
ARCH 609	Terminal Project	
ARCH 610	Experimental Course: [Topic] (History and Theory of Building Technology)	
ARCH 619	Terminal Project	
ARCH 661	Teaching Technical Subjects in Architecture	
Individualized study courses (ARCH/IARC 601: Research; ARCH/IARC 605: Reading and Conference, ARCH/IARC 606: Special Problems, ARCH 619/IARC 611: Terminal Project, and ARCH 620/678: Research Methods in Sustainable Design) may count toward the technical teaching core credits with review and approval by the certificate director of the teaching content.		
Advanced Electives in Technology [1]		**12**
Sample courses include:		
ARCH 507	Seminar: [Topic] (Advanced Technology seminars, High Performance Buildings, Case Studies in Sustainable Design, Green Building Design: In Detail, Ecology of Building Materials)	
IARC 507	Seminar: [Topic]	
ARCH 510	Experimental Course: [Topic] (Advanced Technology courses, Green Design and Build for Residential Interiors, Oregon BILDS: Sustainable Construction at the Building Site, Passive Heating and Cooling Seminar)	
IARC 510	Experimental Course: [Topic]	
IARC 573	Working Drawings in Interior Architecture	
ARCH 574	Design the Unseen: [Topic] (Preservation and Restoration Technology)	
ARCH 584	Architectural Design	
or IARC 586	Furniture Design	
IARC 584	Interior Design	
IARC 592	Electric Lighting	
ARCH 595		
ARCH 596	Passive House Design and Details	
ARCH 598	High Performance Buildings Design: [Topic] (Energy Scheming)	
ARCH 633	Fundamentals of Sustainable Design	
ARCH 606	Practicum: [Topic]	
Total Credits		**24**

[1] A variety of elective courses are offered during the year which may be counted toward the 12 advanced technology credits for the certificate. Seminar topics and experimental courses (507 and 510) may change and it is recognized that while some of the courses indicated as electives below may not be offered every year, other relevant courses may be offered.