

UNIVERSITY OF OREGON — DEPARTMENT OF ARCHITECTURE

TECHNICAL TEACHING CERTIFICATE (TTC) APPLICATION

APPLICANT	Please type or print Mr Ms _____ Last name First Middle		
STUDENT NUMBER UOID	_____ - _____ - _____ If you do not have a Student Number, check here _____		
CURRENT MAILING ADDRESS	_____ Phone () _____ E-mail: _____		
PERMANENT ADDRESS	_____ Phone () _____ _____		
CURRENT UO STATUS	Current Major: _____		
PREVIOUS DEGREE	_____ Degree School Date of Degree		
RELATED COURSEWORK	What courses have you taken in the technical subjects related to architecture _____		
APPLICATION REQUIREMENTS	Applicants must complete this application form and also submit the following: 1. A statement of your interests in teaching and technical subject area. 2. A resume or CV. 3. Study Plan.		
CURRICULAR REQUIREMENTS	The Technical Teaching Certificate requires a minimum of 24 graduate credits in residence. See Program Requirements.		
ACADEMIC RECORDS	It is your responsibility to develop a "Study Plan," that must be approved by the Certificate Director and submitted to the Academic Advisor in the Department Office.		
SIGNATURE	_____ signature of applicant Date		

TECHNICAL TEACHING
CERTIFICATE APPLICATION

For information contact:
Brian Hanabury, Academic Advisor, Architecture Department, University of Oregon
Eugene, OR 97403-1206
bah@uoregon.edu

Alison Kwok, Director Technical Teaching Certificate, akwok@uoregon.edu

TECHNICAL TEACHING CERTIFICATE

PROGRAM OVERVIEW

The Technical Teaching Certificate in Architecture is a program that focuses on well-integrated teaching that seamlessly combines design and technical subjects in architecture: environmental building systems, construction methods and materials, enclosure and structural systems. The certificate is available to graduate students interested in teaching during their architectural careers and can be acquired as they pursue a Master of Architecture, Master of Science, or Master of Interior Architecture degree programs at the University of Oregon. Participating students are challenged to develop an area of experience in one or more of these subject areas in curriculum, understand critical principles and concepts, issues of sustainability within the discipline, curricular innovation, as well as how theoretical and pragmatic issues are carried into practice.

The Department of Architecture in the School of Architecture and Allied Arts at the University of Oregon, has a national reputation for the teaching of sustainable design and as a leader in environmentally sensitive design. Numerous alumni from the University of Oregon are currently teaching in the technology areas in schools of architecture nationally and internationally. Recognizing the need for training to produce qualified design teachers, the Technical Teaching Certificate program was developed by Emeritus Professors John Reynolds and Edward Allen.

LEARNING OUTCOMES

Students completing the Technical Teaching Certificate will have:

- an understanding of the principles and concepts in one or more of the technical areas in architecture: environmental building systems, construction methods and materials, enclosure and structural systems.
- an experience in teaching in an integrated, collaborative approach to the design of buildings in studio and lecture courses (see Technical Teaching core courses)
- an understanding about teaching technical subjects and general handling of teaching issues related teaching and learning (see Technical Teaching core courses)

APPLYING TO THE PROGRAM

In order to fulfill the obligations of this Program and receive the Technical Teaching Certificate you must:

- **Apply to the program:** complete the Technical Teaching Certificate Application
- **Study Plan:** Develop a Study Plan in consultation with the Department Academic Advisor or Certificate Director (see "Certificate Requirements")
- **Acceptance to the Program:** The Certificate Director will review the application and upon approval, send a letter of acceptance to you and have it placed in your file. Acceptance to the Technical Teaching Certificate Program is an *internal process* to the Department of Architecture.
- **Graduate Certificate Declaration Form:** Students pursuing both a graduate degree and a graduate certificate concurrently must submit the University of Oregon's Graduate Certificate Declaration form within one term of being admitted to the program, with the Certificate Director's signature. This step takes place with the University of Oregon Graduate School. <http://gradschool.uoregon.edu/policies-procedures/graduate-certificates>
- **Work towards completion:** complete coursework as described in your Study Plan.
- **Final Review Meeting and Approval:** complete course work from your initial Study Plan. Schedule a Final Review meeting with Department Academic Advisor or Certificate Director (review your UO degree audit, transcript; and Study Plan); the Certificate Director will provide a letter to the Department Academic Advisor with approval and completion.
- **Apply for Graduation:** no later than Friday of Week 2 in the term of graduation (for the graduate certificate, the graduate degree or both the degree and the certificate), you must also *apply for graduation*. Note: it is possible to apply for the Certificate prior to applying for the master's degree. It is not possible, however, to apply for the Certificate after receiving your master's degree.

CERTIFICATE REQUIREMENTS

Students in the Technical Teaching Certificate program must complete a minimum of 24 approved credits in teaching and advanced technical subjects, with proficiency in at least one technical subject area (e.g. environmental, materials, construction, structural systems). Twelve credits must be selected from the Core Technical Teaching courses. Required core courses for the Master's degree do not satisfy Certificate requirements (with the exception of a pre-approved, intermediate design studio emphasizing building technology). In the normal track of obtaining the Technical Teaching Certificate, students should take 12 credits beyond those required for the degree and will need to carefully plan to take a full load each term and/or enroll in summer classes. Students with advanced standing (through exceptions as transfer credits or waived courses) may be able complete the Certificate requirements within the same timeframe and the required credits for their M.Arch., M.S., or M.IArch. degree. The Certificate Director will review and approve such exceptions.

Students not enrolled in University of Oregon Architecture program must complete a minimum of 18 credits in advanced technology and technical teaching courses taught at the University of Oregon – but can also receive up to 6 credits (with documentation) for courses taught at a home institution or in a professional office; these credits may be counted toward the 18 credits for the certificate. The Certificate Director will review and approve such work. Non-architecture students interested in the Certificate Program should discuss specific details and course approvals with the Certificate Director or Academic Advisor.

ADVANCED ELECTIVES IN TECHNOLOGY

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.

ARCH/IARC 507	Advanced Technology seminars, High Performance Buildings, Case Studies in Sustainable Design, Green Building Technology: In Detail, Ecology of Building Materials
ARCH/IARC 510	Advanced Technology courses, Green Design and Build for Residential Interiors, Oregon BILDS: Sustainable Construction at the Building Site, Passive Heating and Cooling Seminar
ARCH 524	Advanced Design Development Media
IARC 573	Working Drawings in Interior Architecture
ARCH 574	Preservation and Restoration Technology
ARCH/IARC 584	Architectural Design (with building technology emphasis) or IARC 586 Custom Cabinet and Furniture Design
IARC 592	Electric Lighting
ARCH 595	Daylighting
ARCH 596	The Window
ARCH 598	Energy Scheming
ARCH 606	Special Topics (individualized study with a faculty advisor)
ARCH 633	History of Sustainable Architecture

CORE COURSES IN TECHNICAL TEACHING

Technical teaching courses are individualized study courses designed to allow the student to initiate a program of self-directed study focusing on particular technical topics. A minimum of 12 credits must be taken from this list and are counted toward the Technical Teaching core credits. To register for these courses, students should first develop a course of study with an appropriate instructor and signature and complete the department Individualized Study Form. The form is submitted to department Academic Advisor who will clear the student to register for the course.

Arch 580. Teaching Assistants for ARCH 283/4 (1-3 cr repeatable). An individualized seminar directly linked to integrating technology subjects and design studio. Students may participate in design studio discussions, desk and class reviews, technical workshops, and helping prepare teaching material.

Arch 602. Supervised College Teaching (1-6 cr repeatable). Students may earn credits in a variety of ways: e.g. 1 credit per lecture given in technical courses that address environmental control systems, building construction and materials, structures, and enclosures; 2 credits for workshops, tutoring, or advising with design studios or large lecture courses.

Arch 609. Student Teaching Practicum (3-6 cr). Students will develop and teach a set of workshops or seminars (under an instructor of record) incorporating design exercises and technical topics. Ideally would follow terminal studio for M. Arch, M.IArch, or M.S. students.

Arch 610. History and Theory of Building Technology (3 cr). This seminar is open to all graduate students. Course offerings in the history, theory and pedagogy of technology in architecture are announced each year depending on visiting faculty, funding, and UO faculty teaching availability. In some cases Arch 507 or Arch 510 courses on a similar topic may be substituted, with approval from the Certificate Director.

Arch 619. Terminal Project (3 cr). Preparation of application for teaching positions (review job ads, develop interest letter, curriculum vita, teaching portfolio, and public lecture); preparation of a technical paper and presentation for a technical conference.

Arch 661. Teaching Technical Subjects in Architecture (1-6 cr repeatable). An individualized seminar where the student decides on a topic within a specific technology area and may pursue for example: pedagogical and curricular issues, teaching technical topics, critique and development of course assignments, development of innovative curricular exercises, review of textbooks for courses, development of a technical newsletter. Occasionally ARCH 661 is offered as a workshop-style course during the term.

Arch 690. Teaching Technology in Architectural Design (3 cr). An individualized study directly linked to integrating technology subjects and design studio. Students may conduct technical workshops, provide desk crits, serve as midterm and/or as final reviewers for introductory studios (ARCH, 283, 284, 383, 384, 680, 681, or 682). The course proposal must be organized with the studio coordinators to properly integrate it within the curriculum and schedule.

Individualized study courses (ARCH or IARC 601 Research; 605 Reading, 606 Special Problems, ARCH 619/IARC 611 Terminal Project, and ARCH 620/678 Research Methods) may count toward the Technical Teaching core credits with review and approval by the Certificate Director of the teaching content.

GTF POSITIONS

The Certificate program is open to all interested students but is not linked to GTF appointments. Participation in this Certificate program does not guarantee that student will be awarded a GTF appointment. Students holding GTF appointments are encouraged to link their studies in technology teaching to their GTF assignments. Certificate credits can only be earned through activities that are completed in addition to the requirements of their GTF appointment.

TECHNICAL TEACHING CERTIFICATE STUDY PLAN

Department of Architecture, University of Oregon

NAME _____ Date _____

MASTERS PROGRAM _____

ANTICIPATED DATE OF GRADUATION _____

REQUIREMENTS: 24 credits, at least 12 of these credits must be earned in the advanced technical electives category and 12 credits within the core Technical Teaching courses. This Study Plan is used to develop a roadmap of coursework. This form may be used for the Final Study Plan and approval.

#	Course Title	Term	Instructor	24 Credits <i>minimum</i>	
				advanced Tech electives 12 credits	core TT courses 12 credits
TOTALS:					
12 credits min each column					

Notes if applicable:

Signature _____ Date _____

Alison Kwok, Director, Technical Teaching Certificate or Brian Hanabury, Academic Advisor, Dept. of Architecture