GRADUATE CERTIFICATE IN HERITAGE CONSERVATION

PROGRAM BROCHURE

graduate certificate program in heritage conservation
www.cala.arizona.edu/heritage
Dear Prospective Student:

Thank you for your interest in the Heritage Conservation Graduate Certificate program at The University of Arizona. Our graduate curricular program offers a diverse selection of coursework that will prepare you for a variety of career options in heritage conservation or in any of its allied fields.

As the only graduate heritage conservation program in the Southwest, we are uniquely situated to access cultural resources of international significance. From the Pueblo and Hohokam prehistoric cultures and the Spanish Colonial missions, presidios and towns to the American Territorial vernacular built environment and 20th century revival and modern influences, this region is a fluid cultural landscape that is constantly remaking itself. For millennia, the natural resources of this region of deserts and mountains has sustained and determined the cultural values of various peoples, confirming the interdependence of natural and cultural resources. This program, therefore, strives to teach the preservation of the built environment as part of a comprehensive, multidisciplinary conservation ethic. This ethic extends to the definition of the program’s geographic scope beyond political borders to that of the “Greater Southwest”, defined by southwestern United States and northwestern Mexico.

The Heritage Conservation program is housed in the historic Smith House located on the University of Arizona campus. The University of Arizona is located in the heart of Tucson on a 325-acre campus whose diverse natural environment was recently designated an arboretum. Founded in 1885, it is one of the nation’s top research universities with exceptional programs in disciplines defined by its location in the Southwest, including Arid Lands Studies, Anthropology, and Materials Science. Heritage Conservation is supported by a multidisciplinary faculty from these and other departments, as well as research facilities including the Arizona State Museum, the Environmental Research Laboratory and the Materials Science Testing Laboratory. Tucson is also home to a number of regional and national research facilities critical to preservation, including the Western Archaeological Conservation Center (National Park Service), Bureau of Land Management, and the Sonoran Institute. Preservation professionals are increasingly asked to work collaboratively between these private and public institutions. Throughout our curriculum, service-learning opportunities with these, and other, institutions provide students experience in the complexities of this new inter-institutional environment.

Heritage Conservation began as the first inter-disciplinary certificate program offered by the College of Architecture, Planning and Landscape Architecture (CAPLA) that draws its students from each of its schools. Recently, the program has been extended to include Anthropology, Archaeology, History, Art History, and Material Sciences and is also offered as an interdisciplinary stand-alone certificate program catered to working professionals and second-career students. This diversity requires the program to teach holistic problem solving that values the strengths of each student’s individual backgrounds and provides them with the fundamental tools to implement preservation advocacy in their chosen discipline.

The attached program brochure outlines the 18-unit Heritage Conservation Certificate Program. If you have any questions, please don’t hesitate to contact me directly. Again, thank you for your inquiry and I look forward to hearing from you.

Sincerely,

R. Brooks Jeffery
Coordinator, Heritage Conservation
Director, Drachman Institute
Professor, College of Architecture & Landscape Architecture
rbjeffer@u.arizona.edu

capla.arizona.edu/heritage
CERTIFICATE IN HERITAGE CONSERVATION

COLLEGE OF ARCHITECTURE, PLANNING, AND LANDSCAPE ARCHITECTURE
THE UNIVERSITY OF ARIZONA

Program Mission
The purpose of the Heritage Conservation program is to educate students in the preservation of the built environment as part of a comprehensive ethic of environmental, cultural, and economic sustainability. The curricular program, which leads to a Graduate Certificate in Heritage Conservation, is:

Interdisciplinary, teaching holistic problem-solving within an integrated environment of natural and cultural resources including the disciplines of anthropology, archaeology, architecture, art history, history, landscape architecture, materials science, and planning;

Inter-institutional, promoting collaborative engagement between public and private institutions with a curriculum incorporating community service as a method of learning; and

International in scope and regional in application, defined by the arid lands geography of the Greater Southwest.

The learning outcomes of the Graduate Certificate in Heritage Conservation are intended to balance theory and practice, as well as research and outreach, including:

Awareness of geographic, cultural, technological, economic, and political factors that shape the built environment; building traditions of cultural groups and historic periods that define the Greater Southwest.

Understanding of heritage conservation terms, concepts, and philosophical foundations; of legal, regulatory, and economic development tools; treatment standards for historic properties; cultural resource management business and ethical principles.

Ability to conduct research using primary and secondary information resources; survey, document, and communicate cultural artifacts, buildings, sites, districts, and cultural landscapes according to professional standards; analyze building construction systems, components, and materials to make conservation treatment recommendations; interpret the meaning of built environments to a larger audience.

The instructional delivery methods for disseminating these learning outcomes are meant to ensure students are ready for the professional workplace:
- group projects and individualized work;
- classroom, seminar, workshop, archive, laboratory, and field venues;
- collaborations with local, state, tribal, and federal agencies;
- multiple communication media (oral, written, virtual);
- peer-reviewed products (research papers, NR nominations, technical reports).

The Graduate Certificate in Heritage Conservation is accredited by the National Council for Preservation Education - www.ncpe.us
Admission and Graduation Requirements
The Graduate Certificate in Heritage Conservation is designed as both a stand-alone program and to be integrated with other degrees, including the M.Architecture, M.S.Architecture, M.Landscape Architecture, M.S.Planning, M.A.Anthropology, M.A. Applied Archaeology, and PhD Material Science & Engineering degrees. The student is responsible for choosing the appropriate option and, in the case of a degree program, working with the Heritage Conservation Certificate Coordinator and his/her degree program advisor to develop a mutually agreeable plan of study. Students must comply to the University of Arizona’s Graduate College eligibility requirements including a minimum cumulative GPA of 3.0 on a 4-point scale from a baccalaureate degree.

Audiences
The program is constructed to serve two audiences: Degree-seeking graduate students obtaining a Masters degree in their chosen discipline (e.g. Architecture, Landscape Architecture, Planning, Archaeology, Art History) and Certificate-seeking students whose program is based in the Outreach College. Regardless of your status, all students wishing to obtain the Graduate Certificate in Heritage Conservation must be registered as a certificate-seeking student. While the Graduate Certificate in Heritage Conservation is intended to provide an overview of the principles, methods, and regulatory tools to advance your career options in heritage conservation or in any of its allied fields, it is not an accredited program for art, material, or museum conservators nor provide the technical application required for each.

Coursework
Courses for each audience will be co-convened but will be listed as two different course numbers representing the distinction between their degree-seeking and certificate-seeking status.

Fees
Degree-seeking students in Colleges that require program fees (e.g. College of Architecture, Planning & Landscape Architecture) will be charged those fees. Effective Fall 2012, Certificate-seeking only students will be charged an additional differential tuition of $200 per student credit hour.

For additional information on admissions requirements, contact Kathleen Landeen, the College’s Graduate Program Coordinator, 520-621-9819, or klandeen@u.arizona.edu.
Certificate Curricular Structure

The 18-unit program can be completed in as little as one calendar year.

Fall | 6 units

ARC/LAR 571f  Introduction to the Conservation of Cultural Resources (3)
This course is an overview of the interdisciplinary issues related to the preservation of the built environment in the United States and internationally. It will introduce the student to the history of the preservation movement, federal, state and local management programs, preservation law and its procedures, documentation and interpretation processes, and techniques for intervention, including restoration, rehabilitation and adaptive re-use.

ANTH 540a  Cultural Resources Management (3) *
Reviews various topics related to cultural resource management (CRM), including the development of CRM archaeology, relevant laws and regulations, real world economics, ethical issues, management labor relations, fieldwork and archival research methods, roles of research designs and sampling strategies, modes of data dissemination and preservation, public education strategies, international approaches, interests of various groups and career paths.

Spring | 6 units

ARC/LAR 597j  Documentation and Interpretation of the Historic Built Environment (3)
Examination of the methods to document buildings, districts and cultural landscapes combined with the methods to interpret their historical and architectural significance according to professional standards. Course will focus on the historic built environments of the Greater Southwest and will include a semester-long service-learning project that applies the documentation and interpretation methodologies introduced in this course.

PLN 564  Preservation Planning Issues  (3)
Reviews preservation policy and jurisdictional issues within a community development context, addresses complex social equity considerations associated with historic designation, examines economic incentives, and explores preservation philosophy, cross-cultural values and emerging trends. Provides skills to connect technical and policy requirements of historic preservation with pragmatic social and economic concerns of community development.

Summer | 6 units

ANTH 505A  Introduction to Archaeological Conservation (3) *
Course introduces the principles of archaeological conservation, techniques for characterizing artifact materials and burial conditions, methods for documentation, stabilization, removal and packing of delicate finds in the field, and controlled excavation of block lifts in the lab.

ARC 593 or equivalent  Internship (3 units; required, not graded)
Application of knowledge involving a significant period of practical experience at a venue based on student specialization (see below). Internship sponsor must be approved by Coordinator. Option to waive based on experience at the discretion of the Heritage Conservation Coordinator.

* could be substituted with CHEM/ANTH/MSE 532a - Chemical Characterization for Cultural Material (Odegaard) or MSE 568 – Heritage Conservation Science (Odegaard/Simmons) or ARH coursework (e.g. ARH 596 - Special Topics) based on the approval of the Heritage Conservation Coordinator and student’s primary advisor.
**Internship**
The internship requirement is a vital component of the Heritage Conservation curriculum. It provides the student with the opportunity to observe and participate in the implementation of preservation policies, design principles, and regulatory mechanisms in a real-world context.

Internships are developed in conjunction with the Coordinator to integrate the student area of specialization with existing venues. Internship sponsors may include private-sector design, archeological and historical firms, university, governmental, and tribal agencies as well as non-profit organizations. Internship sponsors must apply for authorization and are requested, but not required, to provide financial compensation to the student.

Previous internship venues include:
- City of Tucson, Historic Preservation Office
- Pima County Cultural Resources Office
- Oro Valley Historic Preservation Commission
- Statistical Research Inc.
- Vint & Associates, Architects
- Poster Frost Mirto, Architects and Planners
- Center for Desert Archaeology
- Western Archaeological Conservation Center
- Arizona Historical Society
- Arizona State Historic Preservation Office
- Cornerstones Community Partnerships, Santa Fe, New Mexico
- Instituto Nacional de Antropologia e Historia (INAH)
- National Park Service
- Tohono O'odham Nation
- Arizona State Museum

Other internship sites may be considered upon approval of the Coordinator.

**Heritage Conservation Lecture Series**
The Heritage Conservation Lecture Series supplements the CAPLA Lecture Series by sponsoring an annual lecture focusing on preservation issues. Past lecturers include Mohammad al-Asad, Director of the Center for the Study of the Built Environment (Amman Jordan), Chris Wilson, J.B. Jackson Professor of Cultural Landscape Studies, University of New Mexico, Donovan Rypkema, preservation economist, Steve Farneth, preservation architect from Architectural Resources Group, Rosa Lowinger, architectural conservator, and Joel Paterson, City of Salt Lake City preservation planner.

**Desert Southwest/Cooperative Ecosystem Study Unit (DS/CESU)**
The Heritage Conservation program at the University of Arizona has been selected by the National Park Service to participate in an inter-agency Cooperative Ecosystem Study Unit (CESU). The purpose of the CESU is to integrate the cultural resource needs of National Park Service's Desert Southwest region with the technical expertise available from the faculty and students in the Heritage Conservation program through funded projects. The projects vary from national register nominations and cultural landscape inventories to historic structures reports and new facilities design in the parks' scenic and historic contexts. Dr. Pat O'Brien, the DS/CESU Cultural Resources liaison, is housed in the Smith House/Center for Heritage Conservation and works directly with Heritage Conservation students.
Core Faculty

**R. Brooks Jeffery**, Coordinator, Graduate Heritage Conservation Program, Director, Drachman Institute, and Professor, College of Architecture, Planning, and Landscape Architecture. Architectural history, documentation, vernacular and cultural landscapes of the Middle East, Latin America, and American Southwest. (rbjeffer@u.arizona.edu)

**T.J. Ferguson**, Professor, School of Anthropology, Director M.A. Program in Applied Archaeology. Cultural resource management, social identity and cultural affiliation, cultural landscapes, Western Pueblo settlement and land use. (tf@email.arizona.edu)

**Lauri Johnson**, Professor, School of Landscape Architecture. Cultural landscapes. (ljohnson@u.arizona.edu)

**Nancy Odegaard**, Conservator, Arizona State Museum. Materials conservation. (odegaard@u.arizona.edu)

**Pat O’Brien**, Adjunct Professor, Planning. Cultural resource management, National Park Service, American history. (obrienw@email.arizona.edu)

**Pamela Vandiver**, Professor, Materials Science and Engineering. Materials conservation, building technologies. (vandiver@mse.arizona.edu)

Facilities

**Smith House | Center for Heritage Conservation**

The Smith House, listed on the National Register of Historic Places, serves as the center for Heritage Conservation from which its instructional, research and community outreach programs are based. The 1904 Queen Anne residence, located across the street from the CAPLA Building, was home to G.E.P. Smith, agricultural engineer and university faculty member responsible for early research and legislation on Arizona groundwater management. The Smith House contains offices, student work-stations, conference room, and library.

**College of Architecture, Planning & Landscape Architecture (CAPLA) Building**

The CAPLA Building is the administrative facility for the College of Architecture, Planning, and Landscape Architecture and contains the design studios and faculty offices for the School of Architecture, School of Landscape Architecture and Planning, and the Drachman Institute. In addition, the CAPLA Building houses a variety of facilities for use by the graduate students of all CAPLA programs, including a computer lab, exhibit gallery, visual resources database, as well as a wood, glass, metal, digital modeling, and visualization labs.

**Arizona Architectural Archives**

The Arizona Architectural Archives was established in 1976 to collect, preserve, document and disseminate records pertaining to the architectural development of southern Arizona. The Archives, located in UA Special Collections, currently houses over 50,000 original drawings of Tucson’s most significant architects, including Roy Place, Henry Jaastad, Josias Joesler, William Wilde, Nicholas Sakellar, and Judith Chafee.
Drachman Institute
The Drachman Institute is the research-based outreach arm of the College of Architecture, Planning, and Landscape Architecture (CAPLA) at The University of Arizona dedicated to sustainable design and planning with a focus on underserved and vulnerable communities. It engages students, staff, faculty, and citizens as an interdisciplinary collaborative striving to make our communities healthier, safer, more equitable, and more beautiful places to live. The Drachman Institute acts as a nexus between community needs and the College's skills and knowledge in architecture, landscape architecture, and planning with a specific focus on Affordable Housing, Neighborhood, Community & Regional Planning, Heritage Conservation, and Public Health.

Southwest Center
The Southwest Center seeks to define, illuminate and present the character, of the Greater Southwest: the heartland of Arizona, New Mexico, Sonora, and Chihuahua, and its peripheries. A particular research interest of the Southwest Center is to document the Southwest’s architectural history in the face of dramatic change, to describe comprehensively the architectural cultures of the Sonoran Desert Region. It is also the mission of the Southwest Center to seek out, publish and support projects by architects, planners, landscape architects and others who are attempting to apply traditional models, in intelligent and meaningful ways, to contemporary architectural problems.

Environmental Research Laboratory
As a research unit within The University of Arizona, Environmental Research Laboratory scientists, engineers and planners have been researching the relationship between the basic human needs of food, water, energy and shelter, and the ability of the environment to supply these needs. From this research ERL has developed innovative technologies and applied a systems approach to problems and projects in arid regions worldwide for more than 30 years. ERL’s Desert Design and Planning Group coordinates with CAPLA to provide sustainable solutions to community development issues. With a primary focus on arid regions, the ERL provides technical support and technology transfer to entities interested in developing projects and communities in that are more resource efficient and livable.

Arizona State Museum
The Arizona State Museum is the oldest and largest anthropology museum in the region and brings to life the culture history of the Greater Southwest, from the mammoth hunters to the present, through many ongoing research projects. The museum's rich and varied collections are among the most significant resources in the nation for the study of Southwest anthropology. The Museum, a Smithsonian Institution affiliate, houses the Office of Ethnohistorical Research, Documentary Relations of the Southwest (DRSW), the Arizona Archaeological Site and Survey Database (AZSITE), and conservation laboratories.

Archaeological Mapping Lab
The Archaeological Mapping Lab, located in Haury Anthropology Building, is dedicated to the scientific study and analysis of ancient cities, landscapes and sanctuaries by means of the use of digital cartography, GIS, remote sensing and other spatial analytical techniques. The purpose of the lab is to pursue archaeological mapping research projects as well as to train students in computerized mapping techniques.