



# SCHOOL OF ARCHITECTURE, PLANNING & PRESERVATION

## HISTORIC PRESERVATION PROGRAM

### **Digital Preservation Specialty Track in the Master of Historic Preservation**

*Donald Linebaugh, Interim Director of Historic Preservation*

For students who are interested in expanding and refining their mastery of digital tools and skills beyond topics addressed in the Historic Preservation Program's core and elective courses, we encourage you to take electives in the Digital Preservation Track. We have reviewed and preapproved a number of courses across the University that address additional theories, concepts, and skills used for digital documentation and curation. The elective course, HISP619O: Three-Dimensional Digital Documentation, is offered in the Spring semester. The outline below offers pre-approved elective courses that complement HISP619O and fit within the time frames set forth in the MHP sample schedule. Special topics seminars not listed below may also be used for specialty track and will be evaluated on an individual basis. Please make final decisions on elective courses in discussion with your advisor.

Students interested in specialization should also consider seeking an internship in a position that supports that specialization. We will work with you to find these types of positions.

### **Courses that fulfill the Digital Preservation Specialty (15 credits required)**

Choose three elective courses to be taken during the summer or during Terms III & IV to fulfill the elective requirements. (Dual degree students have fewer elective opportunities, and if they pursue a specialization they will likely be required to extend the duration of their coursework.)

#### *Fall Options (3 credits)*

##### *Choose One*

HISP 679

INST 604

INST 643

URSP688L

#### *Spring Options (6 credits)*

##### *Choose Two*

HISP619O

AMST629U

INST 604

INST 644

URSP688M

### **Digital Preservation Course Descriptions**

#### **HISP 679 Introduction to Measured Drawings for Historic Preservation (3)**

*This course teaches graphic documentation methodologies for historic buildings, including hand measuring, drafting, preparing a sketch plan, analyzing buildings, and producing finished drawings in CAD. Students will analyze building in situ.*

HISP 619O Special Topics in Historic Preservation; Three-Dimensional Digital Documentation: Using Laser-based Measurement Systems (3) *This course focuses on the fundamentals of documenting components of the built environment and the landscapes in which they are located. It focuses on the use of lasers to calculate 3-D measurements at various scales, from objects, to buildings, and landscapes. It will cover data management and archiving, field documentation processes, and post-processing of scan point clouds. This includes the production of deliverables for clients or project partners, such as plans, elevations, orthoimage, and cleaned exported point clouds in formats that are compatible with Autodesk software and other CAD or rendering software platforms. This course is intended for students working in fields that rely on accurately documenting components of the built environment in three dimensions, including architects, engineers, preservationists, archaeologists, or digital designers.*

AMST 629U Introduction to Digital Studies (3) *Digital Studies is an interdisciplinary approach to scholarship and teaching that combines the critical study of new forms of digital media, culture, and identity with creative practices and the application of computational tools to areas of humanistic study. While it is often hands-on or applied, Digital Studies also demands approaches that are primarily critical, theoretical, speculative, or experimental—imaginative—in nature. Broadly speaking then, Digital Studies is a response to the widespread influence of digital media across nearly every aspect of contemporary life; more specifically, it recognizes that teaching, research, and scholarship in the arts and humanities cannot and will not remain isolated from the networks, platforms, and media providers all around us. This course is designed to introduce you to several different (and divergent) topics and practices in this diverse, complex, and rapidly changing area. This course will also ask you to learn several digital design platforms (WordPress, Audacity, the Adobe Creative Cloud, mobile prototyping software, and mapping software) and develop your skills on these platforms over the semester. Rather than approaching digital studies through the lens of “every DH scholar must know how to code,” this course approaches our topics through the lens of “making is a mode of thinking.” You will turn in small projects and ultimately turn in a final digital project that expresses the ideas.*

INST604 Introduction to Archives and Digital Curation (3) *Overview of the principles, practices, and applications in the archival and digital curation fields*

INST644 Introduction to Digital Humanities (3) *A survey of the history, methods, and principal topics of the Digital Humanities, examined from theoretical and applied perspectives.*

INST643 Curation in Cultural Institutions (3) *An overview of the principles, practices, and current debates in the management, care and representation of digital artifacts in libraries, archives, and museums.*

URSP 688L - Recent Dev. in Urban Studies; Planning Technology (3) *An introduction to technologies that are vital for contemporary planners. With a strong emphasis on practical skills, the course will provide students with fundamental concepts, hands-on experience and real-world applications of such urban planning technologies as web publishing and tools, search engine optimization, blogs, Twitter and social networking, Geographic Information Systems (GIS), data visualization, 3D modeling, mash-ups, digital design tools, web surveys, photo/video sharing (web/video conferencing), and crowdsourcing.*

URSP 688M - Recent Dev. in Urban Studies; Intermediate Geographic Information Systems (3) *GIS and its application to urban planning. Topics include thematic mapping, GIS data structure, spatial analysis, Internet GIS, using census data to study urban areas, and examples of urban GIS application. Weekly laboratory and project work use ArcGIS software.*