

University of Mary Washington
Department of Historic Preservation

Computer Applications in Historic Preservation HISP 345-01
Spring 2010
Combs Hall #011
2:00 – 4:45 pm Thursday

Instructor: Mr. Spencer
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Office hours:
Monday, Wednesday, and Friday 1:00-3:00 pm
Or by appointment

I. Course Outline and Objectives:

This course will explore some of the computer programs being used today in the field of Historic Preservation. Students will not only be exposed to these programs but will be taught how to utilize them as they pertain to certain Preservation related scenarios. The class will culminate in group projects, decided on by the student groups, which will seek to integrate the various skill sets and programs learned to accomplish a set objective. This final project will be presented at the time of the semester exam.

Objectives:

1. Obtain basic competencies in the following software/hardware as they pertain to Historic Preservation:
 - a. AutoCAD (advanced commands)
 - b. 3-D modeling (SketchUP and Google Earth)
 - c. Photorectification (PhoToPlan, TachyCAD, and a Leica Total Station)
 - d. Database and data manipulation (Access and Excel)
 - e. Presentation and Formatting (Adobe In Design and Photoshop)
2. Integrating and adapting skill set and program knowledge to address Historic Preservation issues.
3. Professional dissemination of results through graphics and user friendly computer interaction.

II. Text:

Required:

Chopra, Aidan. *Google SketchUp 7 for Dummies*, Hoboken, N.J.: Wiley Publishing, 2009.

***Class readings not found in your required text or distributed in class will be posted online through Blackboard (<http://blackboard.umw.edu>).

III. Grading Scale:

As prescribed by Mary Washington College:

A	“Unusual Excellence”	(93% or higher = A ; 90-92% = A-)
B	“Work Distinctly Above Average”	(87-89% = B+ ; 83-86% = B ; 80-82% = B-)
C	“Work of Average Quality”	(77-79% = C+ ; 73-76% = C ; 70-72% = C-)
D	“Work of Below Average Quality”	(67-69% = D+ ; 60-66% = D)
F	“Failure, No Credit”	(0-59% = F)

*If at midterm a student has a grade of D (a 66% or less) a “U” (unsatisfactory) will be entered.

IV. Assignments:

As the assignments in this class will be computer based students will need to turn in their assignments in the correct digital format on the CD provided. It is the responsibility of the student to correctly format as well as save their work. Students should refrain from storing any valuable work on the Departments computers in Combs #011.

Assignment #1, AutoCAD Advanced Commands (due 1/28): This assignment will ensure that students are able to use AutoCAD at a high level of proficiency as well as begin to explore its potential beyond just simple vector based line drawings.

Assignment #2, 3-D Modeling Using SketchUp and Google Earth (due 2/18): Building on knowledge learned from AutoCAD students will import line drawings into Sketchup from which they will create 3-D models. Once completed these models will be set on landscapes generated by Google Earth.

Assignment #3, On Site Documentation and Photorectification (*due 3/25*): Students will use the reflector less Leica Total Station in conjunction with TachyCAD to obtain XYZ coordinates of a particular structure or site. This data will then be used to rectify images using PhoToPlan thereby allowing accurate measurements and drawings to be obtained from the images.

Assignment #4, Creating Databases and Manipulating Data (*due 4/8*): Students will demonstrate how to collect, organize, and manipulate data using Microsoft Access and Excel to provide a user friendly database.

Assignment #5, Creating Professional Documents (*due 4/22*): This assignment will require the student to use graphic manipulation programs in order to produce a variety of professional documents. The particular documents to be created will be discussed at a later date.

Final Project, Integrating Computer Applications for Preservation Purposes (*due 4/27*): Students will work in teams of four to generate a project that integrates at least 4 of the 5 areas covered during the semester. This will include developing the project objectives, scope, methodology, obtaining necessary data, and presenting the project at the end of the semester, complete with proven applications in the field of Historic Preservation

***While some of these assignments will require that students work in groups it is imperative that all students turn in their **own** work. What constitutes an acceptable degree of cooperation will be discussed in class.

V. Tests and Examinations:

Basic Competencies (*due throughout the semester*): Students will be assessed throughout the semester on a one to one basis during class on their ability to use the programs in question. These competency tests will be graded on a pass/fail basis. Failure to be present during one of these evaluations will constitute a failure for that particular program competency. Attendance, readings, and participation in class will help students to pass these exercises.

VI. Participation:

The participation component of this class goes hand in hand with attendance. If you are not at class you will not be able to participate. For definition purposes participation for this class is not limited to speaking but also includes participation through observation, listening, and being physically present. Students will also be required to demonstrate basic competencies in the computer applications being taught. This will be evaluated during class on a one to one basis throughout the semester. Failure to be present during said evaluations will constitute a failure for that particular program.

Students need to inform the instructor ahead of time should they need to miss a class for emergency purposes. Proper documentation of a missed class may be required and should not be taken by the student as a reflection on their character but rather as policy compliance.

VII. Attendance:

Because the classes build on each other and due to the demonstration and interactive nature of the class attendance is mandatory. Missing class will severely hamper your ability to achieve satisfactory results and in-class instruction/labs/observations will not be repeated unless the student has an **excused absence and notified and made arrangements with the instructor before class.**

VIII. Grading:

Grading will be based on a number of factors in an effort to be fair, transparent, and to provide the best possible feedback to the student. Completeness and accuracy of the assignment will play a large factor in the final grade as will legibility.

IX. Late Assignments:

Assignments are due at the beginning of class on the date noted in the syllabus. Unexcused late work will result in the loss of ten points (a full letter grade), if handed in after the start of class and an additional ten points for every 24 hrs overdue. **NO EXCEPTIONS.** Should a student be absent for whatever reason they will need to e-mail the assignment to the instructor before class begins on the date the assignment is due. The following class, or the next class they physically attend, they will need to hand in a **hard copy** of the assignment. An absence does not excuse a late assignment. No e-mailed assignments will be accepted from students present on the day an assignment is due. Excused late work is determined on a case by case basis by the instructor before the assignments due date. If you have a valid excuse and an assignment conflict please contact me as soon as possible. Documentation of your excuse may be required.

X. Final Grade:

The final grade will be based on the following;

Basic Competency Tests	10%
Assignment #1	10%
Assignment #2	15%
Assignment #3	15%
Assignment #4	10%
Assignment #5	10%
<u>Final Project</u>	<u>30%</u>
Total	100%

XI. Honor Code:

You are expected to follow this, no exceptions. All graded assignment should be pledged and signed. Please see me if you have any questions regarding what is and is not considered plagiarism or cheating.

XII. Classroom Behavior:

Students **ARE** expected to participate in class discussions and lectures as well as treat both the teacher and students respectfully. All cell phones should be turned off and absolutely no text messaging, twittering or blogging. Furthermore, students should conduct themselves in a manner that promotes a good learning environment by refraining from actions that might disrupt the class. Some examples, although not exhaustive, of inappropriate behavior include sleeping during class, talking during class, loud outbursts, reading the newspaper, the use of profanity, and showing up to class intoxicated. Students may be asked to leave class should these rules not be followed.

XIII. Office of Disability Services:

The Office of Disability Services has been designated by the University of Mary Washington as the primary office to guide, counsel, and assist students with disabilities. If you receive services through that office and require accommodations for this class, please make an appointment with me as soon as possible to discuss your approved accommodations. I will hold any information you share with me in strictest confidence unless you give me permission to do otherwise.

If you have not made contact with the Office of Disability Services and have reasonable accommodation needs, I will be happy to help you contact them. The office will require appropriate documentation of a disability.

Office of Disability Services
203 George Washington Hall
540-654-1266
ods@umw.edu

XIV. Class Schedule:

Date	Subject	Readings/Homework (due on date listed)	Assignments/Exams (due on date listed)	Other
1/14	Syllabi and Class Review AutoCAD review and Questions			
	Advanced AutoCAD		Assignment #1	

1/21			distributed	
1/28	SketchUp and Google Earth	Chopra “Google SketchUp for Dummies” pp. 11-71 (bring to class)	Assignment #1 due Assignment #2 distributed	
2/4	SketchUp and Google Earth	Crowder “Google Earth for Dummies” pp. 131-144 (reserve)		
2/11	SketchUp and Google Earth	TBA		
2/18	On Site Documentation and Photorectification (Total Station and TachyCAD)	“Technical Information about TachyCAD” pp. all (reserve) “St. Johannis Chapel, Kubit Case Study” pp all (reserve)	Assignment #2 due Assignment #3 distributed	Class divided into groups, only meet at designated time.
2/25	On Site Documentation and Photorectification (PhoToPlan)	“Technical Information about PhoToPlan” pp. all (reserve) “Shedding Light on the History of Glass Hall, Kubit Case Study” pp. all (reserve)	Final Project Distributed	
3/4	<u>Spring Break, No Class</u>			
3/11	Final Project Ideas and Case Studies	TBA		
3/18	On Site Documentation and Photorectification			
3/25	Creating Databases and Manipulating Data		Assignment #3 due Assignment #4 distributed	
4/1	Creating Databases and Manipulating Data			
4/8	Creating Professional Documents		Assignment #4 due Assignment #5 distributed	
4/15	Creating Professional Documents			
	Work on Final Project		Assignment #5 due	

4/22	Work on Final Project (in-class)		Assignment #5 due	
4/27	Final Exam (Project Presentations), 3:30-	Final Exam (Project Presentations), 3:30-6:00 pm		