Cover Sheet: Request 9982

SLP 4xxx Geodesign Practicum I

Info

Process	Course|New|Ugrad/Pro
Status	Pending
Submitter	Carr,Margaret H mcarr@ufl.edu
Created	1/29/2015 8:45:02 AM
Updated	2/6/2015 11:28:44 AM
Description	This course provides students with problem solving experience in the evolving area of Geodesign.

Actions

Step	Status	Group	User	Comment	Updated
Department	Approved	DCP - Design, Construction and Planning 011501000	Carr, Margaret H		1/29/2015
College	Approved	DCP - College of Design, Construction and Planning	Wehle, Andrew J		2/6/2015
University Curriculum Committee	Pending	PV - University Curriculum Committee (UCC)			2/6/2015
Statewide Course Numbering System					
Office of the Registrar					
Student Academic Support System					
Catalog					
College Notified					

Recommended SCNS Course Identification

1. Prefix   SLP   2. Level   4   3. Number   XXX   4. Lab Code   Select

5. Course Title   Geodesign Practicum I

6. Transcript Title (21 character maximum)   Geodesign Practicum I

7. Effective Term   Fall   8. Effective Year   2015   9. Rotating Topic?   No

10. Amount of Credit   6   11. If variable, # minimum and # maximum credits per semester.

12. Repeatable credit?   No   13. If yes, total repeatable credit allowed   #

14. S/U Only?   No   15. Contact Type   Select Contact Type

16. Degree Type   Baccalaureate   17. If other, please specify: Click here to enter text.

18. Category of Instruction   Advanced

19. Course Description

This course provides students with problem solving experience in the evolving area of Geodesign.

20. Prerequisites

SLP 2XXX GIS II and URP 4XXX Modeling, Visualization & Simulation

21. Co-requisites

None

22. Rationale and Placement in Curriculum

This is an advanced course slotted for a student's sixth semester.

23. Complete the syllabus checklist on the next page of this form.

Syllabus Requirements Checklist

The University's complete Syllabus Policy can be found at:
http://www.aa.ufl.edu/Data/Sites/18/media/policies/syllabi_policy.pdf

The syllabus of the proposed course **must** include the following:

☒ Course title

☒ Instructor contact information (if applicable, TA information may be listed as TBA)

☒ Office hours during which students may meet with the instructor and TA (if applicable)

☒ Course objectives and/or goals

☒ A weekly course schedule of topics and assignments.

☒ Methods by which students will be evaluated and their grades determined

☒ Information on current UF grading policies for assigning grade points. This may be achieved by including a link to the appropriate undergraduate catalog web page: https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx.

☒ List of all required and recommended textbooks

☐ Materials and Supplies Fees, if any

☒ A statement related to class attendance, make-up exams and other work such as: *"Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found in the online catalog at: https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx."*

☒ A statement related to accommodations for students with disabilities such as: *"Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation."*

☒ A statement informing students of the online course evaluation process such as: *"Students are expected to provide feedback on the quality of instruction in this course based on 10 criteria. These evaluations are conducted online at https://evaluations.ufl.edu. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at https://evaluations.ufl.edu/results."*

It is **recommended** that the syllabus contain the following:

☐ Critical dates for exams or other work

☐ Class demeanor expected by the professor (e.g. tardiness, cell phone usage)

☒ The university's honesty policy regarding cheating, plagiarism, etc.

Suggested wording: UF students are bound by The Honor Pledge which states, "We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment." The Honor Code (http://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor or TAs in this class.

☒ Contact information for the Counseling and Wellness Center: http://www.counseling.ufl.edu/cwc/, 392-1575; and the University Police Department: 392-1111 or 9-1-1 for emergencies

SLP 4XXX Geodesign Practicum I
Professors: P. Carr (mcarr@ufl.edu), P. Zwick (pdzwick@ufl.edu),
Graduate Teaching Assistant:
6 credits, MWF Periods 7 - 9 ARC 411
Prerequisites – SLP 2XXX GIS II and URP 4XXX 3D Modeling, Visualization and Simulation

---

SYLLABUS

General

Course Description
This course provides students with hands on experience in the evolving area of GeoDesign. "Geodesign is a design and planning method which tightly couples the creation of design proposals with impact simulations informed by geographic contexts." (Flaxman 2010) or: Geodesign provides a design framework and supporting technology for professionals to leverage geographic information, resulting in designs that more closely follow natural systems and effective urban form. (modified from Esri)

Pre-GIS environmental design processes will be discussed and land use suitability and assessment of environmental sensitivity using GIS will be employed. We will integrate principles and methods of urban and regional planning and design, landscape ecology, conservation biology, and GIS analysis to design sound land use and conservation plans and strategies.

This is the first studio in a two semester sequence. The focus of the first studio is suitability analysis to identify land use conflicts and opportunities. The focus of the second studio will be the development of detailed alternative future land use scenarios (or visions), each based on policy assumptions that allow one to test implications of each scenario.

Course Objectives

Problem solving will be addressed through the application of principles and techniques from:
• landscape ecology
• geographic information systems
• land use planning
• environmental planning theory and methods
• landscape / ecosystems management
• urban density
• urban morphology

Student Learning Outcomes

At the end of the course students should be able to:

- Prepare a regional suitability analysis
- Apply model builder for the development of a suitability analysis and as a tool to explain their analysis methodology
- Generate a plan or design based on principles of environmental planning and design, informed by class generated suitability analyses.

Problem Statement
Each semester a geographic area will be selected to serve as the project area.

Performance and Grading

Schedule and Basis for Grades
Assignments will be produced through a combination of group and individual work. At the beginning of the semester, students will be given a set of goals and objectives that will drive the suitability analysis. Three groups will be formed, each to focus on a different set of land uses: Agriculture/Conservation, Urban 1 and Urban 2.

Assignments	Estimated Dates	Percent of Grade
Assignment One – Students will be asked to research available GIS data sources and to ascertain which sources are most appropriate for the analyses to which they've been assigned.	Weeks 1 - 2	10%
Assignment Two – Prepare suitabilities for objectives and sub-objectives.	Weeks 4 - 9	40%
Assignment Three – Prepare final suitabilities for agriculture, conservation and urban land uses.	Weeks 10 - 12	25%
Assignment Four Option 1 – Explore land use conflict on undeveloped lands, and mixed use and infill opportunities on developed lands. Assignment Four Option 2 - Develop an individual or small group project to focus on topics such as water restoration, wildlife corridors, ecotourism development, trail development, productive agriculture, transportation, or new sustainable urban infrastructure within the study area based on the results of the suitability analysis developed in the first portion of the semester. (Group or Individual)	Weeks 13 - 16	25%

Grading Scale

The following scale and associated letter grades will be used in this course.

Letter Grade	A	A-	B+	B	B-	C+	C	C-	D+	D	D-	E
Numeric Grade	93-100	90-92	87-89	83-86	80-82	77-79	73-76	70-72	67-69	63-66	60-62	0-59
Quality Points	4.0	3.67	3.33	3.0	2.67	2.33	2.0	1.67	1.33	1.0	0.67	0.0

For greater detail, see the Registrar's Grade Policy regulations at
http://www.registrar.ufl.edu/catalog/policies/regulationgrades.html

Attendance/Late Work and Make-up Work

Students will be allowed three unexcused absences without penalty. Each additional unexcused absence will result in the loss of 5% of points used to calculate the final grade.

Every attempt is to be made to submit work on the day assigned. A grade reduction of 10% per day will occur unless there is an acceptable excuse for the late submittal.

Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found at:
https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx

Submission of Student Work

All student work may be retained and used by the Departments of Landscape Architecture and/or Urban and Regional Planning. Digital Copies of student work for this course must be turned in at the completion of each assignment. No grades will be computed into the final course grade until digital submissions have been turned in as requested via Sakai. Files are to be named as follows:

course# name project student name. dwg/pdf/jpg/

Example: 3352PlantDesAssig10Smith
            4ch 8ch   8ch   6ch

Use caps for separation
No spaces, hyphens, or underscoring

Texts, Hardware, Software, and other Resources and Regulations

Readings

Readings will be circulated in class, via course reserves or on the share drive during the semester. These have been selected to provide important background for addressing

the problem under consideration. Students should consider the purchase of the following text for use in the class.

Carr and Zwick. Smart Land Use Analysis: The LUCIS Model. ESRI 2007

Disk Storage
Each student is expected to have a minimum 500 GB external hard drive to store class GIS data and results.

Useful Web Links
The following are useful initial weblinks:
Critical Lands and Waters Identification Project
http://www.fnai.org/clip.cfm
Office of Greenways and Trails Florida Ecological Network website
http://www.dep.state.fl.us/gwt/about/ecological.htm
Conservation Trust for Florida Greenways Program website
http://www.conserveflorida.org/index.php/greenways-program.html
1000 Friends of Florida Florida Ecological Network History and Programming Article
http://www.1000fof.org/PUBS/EcologicalGreenwaysFinalVersion.pdf
1000 Friends of Florida Tools for Protecting Florida's Working Landscapes Article
http://www.1000fof.org/PUBS/Fl-working-landscapesFinal2011.pdf
Florida Forever Needs Assessment
http://www.fnai.org/FlForever.cfm
Bureau of Economic and Business Research Information
http://www.bebr.ufl.edu/start
Florida Rural Land Stewardship Area Program
http://www.dca.state.fl.us/fdcp/dcp/rurallandstewardship/
Florida Forever Coalition website
http://www.supportfloridaforever.org/
Florida 2060 human population projection
http://www.1000friendsofflorida.org/planning/2060.asp
1000 Friends of Florida Working to Sustain Florida's Rural and Natural Lands Report
http://www.1000friendsofflorida.org/planning/ruralreport.asp
1000 Friends of Florida Wildlife Habitat Planning Strategies Manual
http://www.floridahabitat.org/wildlife-manual

Other

E-learning
For issues with technical difficulties for E-learning, please contact the UF Help Desk at:
- Learning-support@ufl.edu
- (352) 392-HELP
- https://lss.at.ufl.edu/help.shtml

Any requests for make-ups due to technical issues MUST be accompanied by the ticket number received from LSS when the problem was reported to them. The ticket number will document the time and date of the problem.

Academic Honesty
"UF students are bound by The Honor Pledge which states, "We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment." The Honor Code (http://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor or TAs in this class."

Disabled Students requesting Accommodations
Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, www.dso.ufl.edu/drc/) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester, but no later than week 4.

Counseling Resources
Students experiencing crisis or personal problems that interfere with their general well-being are encouraged to utilize the university's counseling resources.
http://www.counseling.ufl.edu/cwc/Default.aspx , 392-1575.
Please call the University Police Department: 392-1111 or 9-1-1 for emergencies.

Religious Holidays
The university calendar does not include observance of any religious holidays. The Florida Board of Governors and state law govern university policy regarding observance of religious holidays. Students shall be excused from class or other scheduled academic activity to observe a religious holy day of their faith with prior notification to the instructor. Students shall be permitted a reasonable amount of time to make up the material or activities covered in their absence. Students shall not be penalized due to absence from class or other scheduled academic activity because of religious observances.

Online Course Evaluation
 Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at https://evaluations.ufl.edu. Evaluations are typically

open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at https://evaluations.ufl.edu/results/.

Disclaimer
This syllabus represents our current plans and objectives. As we go through the semester, those plans may need to change to enhance the class learning opportunity. Such changes, communicated clearly, are not unusual and should be expected.

All UCC1 forms and each UCC2 form that proposes a change in the course description or credit hours must include this checklist in addition to a complete syllabus. Check the box if the attached syllabus includes the indicated information.

Syllabus MUST contain the following information:
Instructor contact information (and TA if applicable)
Course objectives and/or goals
A weekly course schedule of topics and assignments
Required and recommended textbooks
Methods by which students will be evaluated and their grades determined
A statement related to class attendance, make-up exams and other work such as: "Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found in the online catalog at:
https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx."
A statement related to accommodations for students with disabilities such as: "Students requesting classroom accommodation must first register with the Dean of Student Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the instructor when requesting accommodation."
Information on current UF grading policies for assigning grade points. This may be achieved by including a link to the appropriate undergraduate catalog web page:
https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx
A statement informing students of the online course evaluation process such as: "Students are expected to provide feedback on the quality of instruction in this course based on 10 criteria. These evaluations are conducted online at https://evaluations.ufl.edu. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at https://evaluations.ufl.edu.

It is recommended that syllabi contain the following information:
1. Critical dates for exams and other work
2. Class demeanor expected by the professor (e.g., tardiness, cell phone usage)
3. UF's honesty policy regarding cheating, plagiarism, etc. Suggested wording: UF students are bound by The Honor Pledge which states, "We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment." The Honor Code (http://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obliged to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor of TAs in this class.
4. Phone number and contact site for university counseling services and mental health services: 392-1575, http://www.counseling.ufl.edu/cwc/Default.aspx
University Police Department: 392-1111 or 9-1-1 for emergencies.

The University's complete Syllabus Policy can be found at: http://www.aa.ufl.edu/Data/Sites/18/media/policies/syllabi_policy.pdf