Cover Sheet: Request 15425

ABE 3212C – Land and Water Resources Engineering

Info	
Process	Course Modify Ugrad/Pro
Status	Pending at PV - University Curriculum Committee (UCC)
Submitter	Rafael Munoz-Carpena carpena@ufl.edu
Created	11/5/2020 9:14:38 AM
Updated	12/15/2020 9:28:56 AM
Description of	This course takes fundamental principles that are developed in ENV3040c or CGN3421, or
request	COP2271+Lab courses, these extended prerequisites were determined to be needed for this
	course.

Actions

Actions Step	Status	Group	User	Comment	Updated
Department	Approved	ENG - Agricultural and Biological Engineering 514907000	Kati Migliaccio		11/5/2020
No document of					
College	Conditionall Approved	ENG - College of Engineering	Heidi Dublin	Conditionally Approved by HWCOE Curriculum Committee - add syllabus and send back up to college level with comment indicating all was taken care of	12/7/2020
No document of	changes				
Department	Approved	ENG - Agricultural and Biological Engineering 514907000	Kati Migliaccio	Syllabus and parentheses change added per request.	12/7/2020
ABE3212C_sy	llabus_2021.	docx		•	12/7/2020
ABE3212C_sy					12/7/2020
College	Approved	ENG - College of Engineering	Heidi Dublin		12/15/2020
No document	changes			· ·	
University Curriculum Committee	Pending	PV - University Curriculum Committee (UCC)			12/15/2020
No document	changes				
Statewide Course Numbering System					
No document changes					
Office of the Registrar					
No document changes					
Student Academic Support System					
No document of	changes				
Catalog					
No document of	changes				

Step	Status	Group	User	Comment	Updated
College					
Notified					
No document changes					

Course|Modify for request 15425

Info

Request: ABE 3212C – Land and Water Resources Engineering Description of request: This course takes fundamental principles that are developed in ENV3040c or CGN3421, or COP2271+Lab courses, these extended prerequisites were determined to be needed for this course. Submitter: Rafael Munoz-Carpena carpena@ufl.edu Created: 11/5/2020 9:09:09 AM Form version: 1

Responses

Current Prefix

Enter the current three letter code (e.g., POS, ATR, ENC).

Response: ABE

Course Level

Select the current one digit code preceding the course number that indicates the course level at which the course is taught (e.g., 1=freshman, 2=sophomore, etc.).

Response: 3

Number

Enter the current three digit code indicating the specific content of the course based on the SCNS taxonomy and course equivalency profiles.

Response: 212

Lab Code

Enter the current lab code. This code indicates whether the course is lecture only (None), lab only (L), or a combined lecture and lab (C).

Response: None

Course Title

Enter the current title of the course as it appears in the Academic Catalog. There is a 100 character limit for course titles.

Response: ABE3212C Land and Water Resources Engineering

Effective Term

Select the requested term that the course change(s) will first be implemented. Selecting "Earliest" will allow the change to be effective in the earliest term after SCNS approval. If a specific term and year are selected, this

should reflect the department's expectations. Courses cannot be changed retroactively, and therefore the actual effective term cannot be prior to SCNS approval, which must be obtained prior to the first day of classes for the effective term. SCNS approval typically requires at least 6 weeks after approval of the course change at UF.

Response: Spring

Effective Year

Select the requested year that the course change will first be implemented. See preceding item for further information.

Response: Earliest Available

Requested Action

Indicate whether the change is for termination of the course or any other change. If the latter is selected, all of the following items must be completed for any requested change.

Response:

Other (selecting this option opens additional form fields below)

Change Course Prefix?

Response: No

Change Course Level?

Note that a change in course level requires submission of a course syllabus.

Response: No

Change Course Number?

Response: No

Change Lab Code?

Note that a change in lab code requires submission of a course syllabus.

Response: No

Change Course Title?

Response: No

Change Transcript Title?

If changing the course title a new transcript title is also required.

Response: No

Change Credit Hours? Note that a change in credit hours requires submission of a course syllabus.

Response: No

Change Variable Credit?

Note that a change in variable credit status requires submission of a course syllabus.

Response: No

Change S/U Only?

Response: No

Change Contact Type?

Response: No

Change Rotating Topic Designation?

Response:

Change Repeatable Credit?

Note that a change in repeatable credit status requires submission of a course syllabus.

Response: No

Change Course Description?

Note that a change in course description requires submission of a course syllabus.

Response: No

Change Prerequisites?

Response: Yes

Current Prerequisites

Response: ENV3040C and MAP2302

Proposed Prerequisites

Indicate all requirements that must be satisfied prior to enrollment in the course. Prerequisites will be automatically checked for each student attempting to register for the course. The prerequisite will be published in the Academic Catalog and must be formulated so that it can be enforced in the registration system. Please note that upper division courses (i.e., intermediate or advanced level of instruction) must have proper prerequisites to target the appropriate audience for the course.

Courses level 3000 and above must have a prerequisite. Please verify that any prerequisite courses listed are active courses. (There is a limit of 246 characters)

Response: ENV3040c or CGN3421 or COP2271+Lab courses & MAP2302

Completing Prerequisites on UCC forms:

• Use "&" and "or" to conjoin multiple requirements; do not used commas, semicolons, etc.

• Use parentheses to specify groupings in multiple requirements.

• Specifying a course prerequisite (without specifying a grade) assumes the required passing grade is D-. In order to specify a different grade, include the grade in parentheses immediately after the course number. For example, "MAC 2311(B)" indicates that students are required to obtain a grade of B in Calculus I. MAC2311 by itself would only require a grade of D-.

• Specify all majors or minors included (if all majors in a college are acceptable the college code is sufficient).

• "Permission of department" is always an option so it should not be included in any prerequisite or co-requisite.

No

• If the course prerequisite should list a specific major and/or minor, please provide the plan code for that major/minor (e.g., undergraduate Chemistry major = CHY_BS, undergraduate Disabilities in Society minor = DIS_UMN)

Example: A grade of C in HSC 3502, passing grades in HSC 3057 or HSC 4558, and undergraduate PBH student should be written as follows: HSC 3502(C) & (HSC 3057 or HSC 4558) & UGPBH

Change Co-requisites?

Response: No

Rationale

Please explain the rationale for the requested change.

Response:

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Land and Water Resources Engineering ABE3212C Class Periods: T 8:30-10:25 am (periods 2-3), R 9:35-10:25 am (period 3), R 3:00-6:00 pm (periods 8-10) Location: Frazier Rogers Hall 211 Academic Term: Spring 2020

Instructor:

Dr. Rafael Muñoz-Carpena carpena@ufl.edu 352-392-1864 x 287 Office hours: immediately after class and by appointment Office location: 287 Frazier Rogers Hall

Teaching Assistants:

TBA. TA's will announce their Office hours (ZOOM links and times) at the beginning of the course. Please contact them through the Canvas website.

Course Description

Credits: 4 Introduction to hydrology, flow through porous media, flood routing, grade control structures and erosion control.

Course Pre-Requisites / Co-Requisites

Prereq: (ENV3040c or CGN3421 or (COP2271&COP2271L)) Coreq: CWR3201 or EGN3353C

Course Objectives

- Gain the fundamental knowledge of the various components of the hydrologic cycle.
- Use engineering principles to analyze and interpret rainfall-runoff data.
- Apply biological principles to land and water resources engineering data.
- Utilize current computer software to analyze runoff hydrographs and design appropriate outflow devices and retention ponds
- Gain knowledge of the land and water resources field as it relates to societal issues both locally and globally.

Materials and Supply Fees

\$30.

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- Topics in the basic level curriculum for the Bachelor of Science: Degree in Agricultural and Biological Engineering

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This course addresses the following ABET outcomes.

Outcome

Coverage*

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics	Medium
2. an ability to apply engineering design to produce solutions that meet	High
specified needs with consideration of public health, safety, and welfare, as well	-
as global, cultural, social, environmental, and economic factors	
3. an ability to communicate effectively with a range of audiences	Medium
4. an ability to recognize ethical and professional responsibilities in engineering	
situations and make informed judgments, which must consider the impact of	
engineering solutions in global, economic, environmental, and societal contexts	
5. an ability to function effectively on a team whose members together provide	Medium
leadership, create a collaborative and inclusive environment, establish goals,	
plan tasks, and meet objectives	
6. an ability to develop and conduct appropriate experimentation, analyze and	
interpret data, and use engineering judgment to draw conclusions	
7. an ability to acquire and apply new knowledge as needed, using appropriate	
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<u>Exams</u>: Exams will be in class. Exam format (i.e. open book, closed book, etc.) will be announced prior to the exam date. A missed exam may not be made up unless arrangements are made PRIOR to the exam. One exam may consist of a project assignment instead of the in-class exam format.

<u>Final Project</u>: The final project is intended to bring together several major concepts presented in the course such that an engineering design problem can be solved. The project will be graded on thoroughness, neatness, as well as applicability of the engineering calculations.

<u>Portfolio</u>: Each student will be required to maintain an electronic portfolio of all work completed. It would be beneficial but not necessary to include electronic notes. At the end of the semester, the portfolio will be submitted and graded on completeness and organization. The portfolio must be submitted binded, in hardcopy, and in any electronic format such as CD, zip disk, or personal website.

<u>FOR ALL ASSIGNMENTS</u>: Presentation of assignments is extremely important! All homework and lab reports should be written in a professional manner with proper grammar, spelling, and punctuation. Lab reports should be written according to the "Lab Report Rules" discussed at the first lab and posted on Canvas. Failure to do so will result in significant grade reduction. It is expected that homework is written up in a manner similar to that described in the "Lab Report Rules".

All deliverables should be submitted electronically (Canvas). Electronic documents must be a SINGLE text document (i.e., Word or PDF file) that clearly answers each question and shows the work done to arrive at the answer. Any relevant graphs, tables, and equations that support your answer must be included (i.e., pasted) in this document and must be numbered, labeled, and captioned appropriately. If you do not sufficiently explain your work, you will only get partial credit—and no credit for a wrong answer. You may, and probably should, attach additional material (i.e., well-organized and labeled spreadsheets or other calculations) IN ADDITION to the required text report.

All assignments must be formatted so that they can be printed on standard 8.5" by 11" paper

Percent	Grade	Grade
		Points
94.0 - 100	А	4.00
90.0 - 93.9	A-	3.67
87.0 - 89.9	B+	3.33
83.0 - 86.9	В	3.00
80.0 - 82.9	B-	2.67
77.0 - 79.9	C+	2.33
74.0 - 76.9	С	2.00
70.0 - 73.9	C-	1.67
67.0 - 69.9	D+	1.33
64.0 - 66.9	D	1.00
60.0 - 63.9	D-	0.67
0 – 59.9	Е	0.00

Grading Policy

More information on UF grading policy may be found at: <u>https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx</u>

Students Requiring Accommodations

Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, <u>https://www.dso.ufl.edu/drc</u>) 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.

Course Evaluation

Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at <u>https://evaluations.ufl.edu/evals</u>. 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 <u>https://evaluations.ufl.edu/results/</u>.

University Honesty Policy

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 (<u>https://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/</u>) 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.

Commitment to a Safe and Inclusive Learning Environment

The Herbert Wertheim College of Engineering values broad diversity within our community and is committed to individual and group empowerment, inclusion, and the elimination of discrimination. It is expected that every person in this class will treat one another with dignity and respect regardless of gender, sexuality, disability, age, socioeconomic status, ethnicity, race, and culture.

If you feel like your performance in class is being impacted by discrimination or harassment of any kind, please contact your instructor or any of the following:

- Your academic advisor or Graduate Program Coordinator
- Robin Bielling, Director of Human Resources, 352-392-0903, rbielling@eng.ufl.edu
- Curtis Taylor, Associate Dean of Student Affairs, 352-392-2177, taylor@eng.ufl.edu
- Toshikazu Nishida, Associate Dean of Academic Affairs, 352-392-0943, nishida@eng.ufl.edu

Software Use

All faculty, staff, and students of the University are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against University policies and rules, disciplinary action will be taken as appropriate. We, the members of the University of Florida community, pledge to uphold ourselves and our peers to the highest standards of honesty and integrity.

Student Privacy

There are federal laws protecting your privacy with regards to grades earned in courses and on individual assignments. For more information, please see: <u>https://registrar.ufl.edu/ferpa.html</u>

Course Evaluation

Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional

and respectful manner is available at <u>https://gatorevals.aa.ufl.edu/students/</u>. Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via <u>https://ufl.bluera.com/ufl/</u>. Summaries of course evaluation results are available to students at <u>https://gatorevals.aa.ufl.edu/public-results/</u>.

Campus Resources:

<u>Health and Wellness</u>

U Matter, We Care:

Your well-being is important to the University of Florida. The U Matter, We Care initiative is committed to creating a culture of care on our campus by encouraging members of our community to look out for one another and to reach out for help if a member of our community is in need. If you or a friend is in distress, please contact <u>umatter@ufl.edu</u> so that the U Matter, We Care Team can reach out to the student in distress. A nighttime and weekend crisis counselor is available by phone at 352-392-1575. The U Matter, We Care Team can help connect students to the many other helping resources available including, but not limited to, Victim Advocates, Housing staff, and the Counseling and Wellness Center. Please remember that asking for help is a sign of strength. In case of emergency, call 9-1-1.

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

Sexual Discrimination, Harassment, Assault, or Violence

If you or a friend has been subjected to sexual discrimination, sexual harassment, sexual assault, or violence contact the <u>Office of Title IX Compliance</u>, located at Yon Hall Room 427, 1908 Stadium Road, (352) 273-1094, <u>title-ix@ufl.edu</u>

Sexual Assault Recovery Services (SARS)

Student Health Care Center, 392-1161.

University Police Department at 392-1111 (or 9-1-1 for emergencies), or http://www.police.ufl.edu/.

Academic Resources

E-learning technical suppor*t*, 352-392-4357 (select option 2) or e-mail to Learning-support@ufl.edu. <u>https://lss.at.ufl.edu/help.shtml</u>.

Career Resource Center, Reitz Union, 392-1601. Career assistance and counseling. <u>https://www.crc.ufl.edu/</u>.

Library Support, <u>http://cms.uflib.ufl.edu/ask</u>. Various ways to receive assistance with respect to using the libraries or finding resources.

Teaching Center, Broward Hall, 392-2010 or 392-6420. General study skills and tutoring. <u>https://teachingcenter.ufl.edu/</u>.

Writing Studio, 302 Tigert Hall, 846-1138. Help brainstorming, formatting, and writing papers. <u>https://writing.ufl.edu/writing-studio/</u>.

Student Complaints Campus: https://www.dso.ufl.edu/documents/UF Complaints policy.pdf.

On-Line Students Complaints: http://www.distance.ufl.edu/student-complaint-process.

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<u>Lab Sessions and Field Trips</u>: The class will meet for every lab session unless otherwise directed by the instructor. Lab times will consist of demonstrations, experiments, lectures, exams, and field trips. One to two field trips are

being planned to demonstrate some of the concepts discussed in this class. The actual date(s) of the field trip(s) will be announced in class a week or two in advance.

<u>Exams</u>: Exams will be in class. Exam format (i.e. open book, closed book, etc.) will be announced prior to the exam date. A missed exam may not be made up unless arrangements are made PRIOR to the exam. One exam may consist of a project assignment instead of the in-class exam format.

<u>Final Project</u>: The final project is intended to bring together several major concepts presented in the course such that an engineering design problem can be solved. The project will be graded on thoroughness, neatness, as well as applicability of the engineering calculations.

<u>Portfolio</u>: Each student will be required to maintain an electronic portfolio of all work completed. It would be beneficial but not necessary to include electronic notes. At the end of the semester, the portfolio will be submitted and graded on completeness and organization. The portfolio must be submitted binded, in hardcopy, and in any electronic format such as CD, zip disk, or personal website.

<u>FOR ALL ASSIGNMENTS</u>: Presentation of assignments is extremely important! All homework and lab reports should be written in a professional manner with proper grammar, spelling, and punctuation. Lab reports should be written according to the "Lab Report Rules" discussed at the first lab and posted on Canvas. Failure to do so will result in significant grade reduction. It is expected that homework is written up in a manner similar to that described in the "Lab Report Rules".

All deliverables should be submitted electronically (Canvas). Electronic documents must be a SINGLE text document (i.e., Word or PDF file) that clearly answers each question and shows the work done to arrive at the answer. Any relevant graphs, tables, and equations that support your answer must be included (i.e., pasted) in this document and must be numbered, labeled, and captioned appropriately. If you do not sufficiently explain your work, you will only get partial credit—and no credit for a wrong answer. You may, and probably should, attach additional material (i.e., well-organized and labeled spreadsheets or other calculations) IN ADDITION to the required text report.

All assignments must be formatted so that they can be printed on standard 8.5" by 11" paper

Percent	Grade	Grade
		Points
94.0 - 100	А	4.00
90.0 - 93.9	A-	3.67
87.0 - 89.9	B+	3.33
83.0 - 86.9	В	3.00
80.0 - 82.9	B-	2.67
77.0 - 79.9	C+	2.33
74.0 - 76.9	С	2.00
70.0 - 73.9	С-	1.67
67.0 - 69.9	D+	1.33
64.0 - 66.9	D	1.00
60.0 - 63.9	D-	0.67
0 – 59.9	Е	0.00

Grading Policy

More information on UF grading policy may be found at: <u>https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx</u>

Students Requiring Accommodations

Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, <u>https://www.dso.ufl.edu/drc</u>) 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.

Course Evaluation

Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at <u>https://evaluations.ufl.edu/evals</u>. 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 <u>https://evaluations.ufl.edu/results/</u>.

University Honesty Policy

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 (<u>https://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/</u>) 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.

Commitment to a Safe and Inclusive Learning Environment

The Herbert Wertheim College of Engineering values broad diversity within our community and is committed to individual and group empowerment, inclusion, and the elimination of discrimination. It is expected that every person in this class will treat one another with dignity and respect regardless of gender, sexuality, disability, age, socioeconomic status, ethnicity, race, and culture.

If you feel like your performance in class is being impacted by discrimination or harassment of any kind, please contact your instructor or any of the following:

- Your academic advisor or Graduate Program Coordinator
- Robin Bielling, Director of Human Resources, 352-392-0903, rbielling@eng.ufl.edu
- Curtis Taylor, Associate Dean of Student Affairs, 352-392-2177, taylor@eng.ufl.edu
- Toshikazu Nishida, Associate Dean of Academic Affairs, 352-392-0943, nishida@eng.ufl.edu

Software Use

All faculty, staff, and students of the University are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against University policies and rules, disciplinary action will be taken as appropriate. We, the members of the University of Florida community, pledge to uphold ourselves and our peers to the highest standards of honesty and integrity.

Student Privacy

There are federal laws protecting your privacy with regards to grades earned in courses and on individual assignments. For more information, please see: <u>https://registrar.ufl.edu/ferpa.html</u>

Course Evaluation

Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional

and respectful manner is available at <u>https://gatorevals.aa.ufl.edu/students/</u>. Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via <u>https://ufl.bluera.com/ufl/</u>. Summaries of course evaluation results are available to students at <u>https://gatorevals.aa.ufl.edu/public-results/</u>.

Campus Resources:

<u>Health and Wellness</u>

U Matter, We Care:

Your well-being is important to the University of Florida. The U Matter, We Care initiative is committed to creating a culture of care on our campus by encouraging members of our community to look out for one another and to reach out for help if a member of our community is in need. If you or a friend is in distress, please contact <u>umatter@ufl.edu</u> so that the U Matter, We Care Team can reach out to the student in distress. A nighttime and weekend crisis counselor is available by phone at 352-392-1575. The U Matter, We Care Team can help connect students to the many other helping resources available including, but not limited to, Victim Advocates, Housing staff, and the Counseling and Wellness Center. Please remember that asking for help is a sign of strength. In case of emergency, call 9-1-1.

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

Sexual Discrimination, Harassment, Assault, or Violence

If you or a friend has been subjected to sexual discrimination, sexual harassment, sexual assault, or violence contact the Office of Title IX Compliance, located at Yon Hall Room 427, 1908 Stadium Road, (352) 273-1094, title-ix@ufl.edu

Sexual Assault Recovery Services (SARS)

Student Health Care Center, 392-1161.

University Police Department at 392-1111 (or 9-1-1 for emergencies), or http://www.police.ufl.edu/.

Academic Resources

E-learning technical suppor*t*, 352-392-4357 (select option 2) or e-mail to Learning-support@ufl.edu. <u>https://lss.at.ufl.edu/help.shtml</u>.

Career Resource Center, Reitz Union, 392-1601. Career assistance and counseling. https://www.crc.ufl.edu/.

Library Support, <u>http://cms.uflib.ufl.edu/ask</u>. Various ways to receive assistance with respect to using the libraries or finding resources.

Teaching Center, Broward Hall, 392-2010 or 392-6420. General study skills and tutoring. <u>https://teachingcenter.ufl.edu/</u>.

Writing Studio, 302 Tigert Hall, 846-1138. Help brainstorming, formatting, and writing papers. <u>https://writing.ufl.edu/writing-studio/</u>.

On-Line Students Complaints: http://www.distance.ufl.edu/student-complaint-process.