



Savannah State University
New Programs and Curriculum Committee
Summary Page – Form I

1. **Submitting College:** COST
2. **Department(s) Generating The Proposal:** Natural Sciences
Choose an item. (if needed)
3. **Proposal Title:** Certificate in Coastal Community Risks and Management
4. **Course Number(s):** COST 1140; COST 4140K
5. **Course Title(s):** New Courses-Coastal Hazards & Environmental Risk; Environmental Justice & Coastal Risk Management
6. **Effective Date:** Fall Year: 2016
7. **Brief Summary of Proposal:** Developing a pathway by which students from diverse majors would be prepared to address current and future issues regarding resource limitation, natural hazards, and environmental justice in an interdisciplinary fashion and with focus on our coastal environment. This certificate provides introductory and capstone integrated levels in which students can discover ways in which their specialized, major-specific training can be utilized to improve coastal-human interactions.
8. **Type of Proposal:** Other If other, please describe: Certificate
9. **Impact on Library Holdings**
Existing: Online Educational Materials, Development of LibGuides, use of OpenStax texts
Additional: none
Deletions: none
10. **Impact on Existing Programs:** Students would have access to an additional lecture only course and a lecture+lab course. These two courses are the framework for a new Certificate in Coastal Community Risks and Management but they also provide more direction for students in the Colleges of Business Administration, Liberal Arts & Social Sciences, and Sciences & Technology if they are interested in a focus on the highly impacted, ecologically and economically important coastal ecosystem and community.
11. **Additional Resources Required**
Personnel: none
Non-personnel: none
12. **Approvals:**
 - Department Curriculum Committee Signature [Signature] Date 3/28/16
 - Department Chair Signature [Signature] Date 3/28/16
 - College Curriculum Committee Signature _____ Date _____
 - College Dean Signature [Signature] Date 03/31/16
 - Vice President of Academic Affairs Signature [Signature] Date 5/2/16

(Chair of the New Programs and Curriculum Committee)

- Faculty Senate

Signature

Kenneth A. Jordan

Date

5/3/16

Coastal Community Risks and Management Certificate

Certificate Description:

This interdisciplinary certificate program is **hosted by the College of Sciences & Technology** and is a joint effort amongst the College of Business Administration, College of Liberal Arts and Social Sciences, and COST. It fosters collaboration amongst participants to **solve challenges faced by residents of coastal regions**, specifically raising awareness of natural and anthropogenic hazards, addressing residents' perception of risk, and managing risk and resiliency in these regions. **Student-led service in community education and improvements** in the aforementioned areas enhance student cognizance, collaborative mindset, and training towards increasing the likelihood of bringing environmental justice to residents of the coast.

Requirements:

The certificate will be awarded and the student will be eligible to don the program sash/cord at commencement only when all certificate and their major program requirements have been met.

- ✓ ***COST 1140 Coastal Hazards & Environmental Risk. Lecture.*** Intend to complete the process to be able to offer the course as an option for those seeking to fulfill of *Area D* requirements as needed in their major grid. Target initial offering Fall 2016 mini-semester I.
- ✓ ***COST 4140K Environmental Justice & Coastal Risk Management. Lecture + Lab/Field..*** Target initial offering Fall 2016 mini-semester II.
- ✓ ***Any three (9 cr. minimum total) of the following courses with the expectation that participants will stay within offerings by their College of origin.***

COBA Class Options*	CLASS Class Options*	COST Class Options*
MKTG 3179 Global E-Business	HSEM 2101 Intro to Homeland Security & Emergency Mgmt.	ENVS 2401 Introduction to Environmental Science
MKTG 4176 Contemporary topics in Marketing	HSEM 3250 Risk & Vulnerability Assessment	ENVS 3121 Environmental Ethics
GLIB 4190 International Transportation	HSEM 3130 Emergency Planning, Hazard, Incident Management	ENVS 4401 Environmental Impact Assessment
GLIB 3190 Global Supply Chain Management	HSEM 3510 Critical Infrastructure Protection	MSCI 2010 Introduction to Oceanography
	POLS 3811 Urban Politics	BIOL 3621 Urban Health & Hygiene
	POLS 3813 Introduction to Urban Planning	MSCI 3702 Introduction to Geographical Information Systems
		CIVT 4201 Environmental Engineering I
		CIVT 4211 Environmental Engineering II

Descriptions for Required Courses:

COST 1140 Coastal Hazards & Environmental Risk

Students will be introduced to major coastal processes and issues including interactions between land and water as well as humans and the coast. They will also study coastal hazards, risk perception, and vulnerability as they are familiarized with the major elements of Environmental Justice. This course will target students working toward completion of requirements for the Certificate in Coastal Risk, Management, and Environmental Justice; however, it can serve as a lower-level elective for students of all majors, science-based and non-science based. **Format:** lecture, discussion, interactive computer-based lessons, possible field trips. Pre-requisites: none. (3-0-3)

COST 4140K Environmental Justice & Coastal Risk Management

Students will develop and implement action plans to address complex interdisciplinary issues of coastal hazards, requiring an understanding of the natural and built environments, vulnerable communities and ecosystems, environmental law, urban settings, and environmental justice in the context of the densely populated coastlines, and their unique resources and hazards. Students will assimilate the issue with the lens of management and their specific backgrounds in this interdisciplinary setting. Includes completion of one major Service Learning Project to raise awareness of at least one coastal environmental hazard toward the reduction of disproportional risk exposure. **Format:** use of case studies, discussion, service-learning collaborative project(s), possible field trips. Pre-requisite: COST 1140. (3-1-4)

Key Information about the Certificate Program:

- To start the certificate, simply begin taking the courses as outlined. The ideal order is to begin with the course ***COST 1140 Coastal Hazards & Environmental Risk***; however, one may first take the college-specific courses depending on immediate course availability.
- Any course can be taken singly or as part of the certificate program. Note that ***Coastal Hazards & Environmental Risk*** is a pre-requisite course for ***Environmental Justice & Coastal Risk Management***.
- Depending on the college-specific course options selected (see table), the certificate program can be completed in a year.
- For more information please contact Dr. Sue C. Ebanks at ebankss@savannahstate.edu.



Savannah State University
New Programs and Curriculum Committee
Course Addition Page – Form II

1. **Course Number:** COST1140
2. **Course Title:** Coastal Hazards & Environmental Risk
3. **Catalogue Description:** Students will be introduced to major coastal processes and issues including interactions between land and water as well as humans and the coast. They will also study coastal hazards, risk perception, and vulnerability as they are familiarized with the major elements of Environmental Justice. This course will target students working toward completion of requirements for the Certificate in Coastal Community Risks and Management; however, it can serve as a lower-level elective for students of all majors, science-based and non-science based. **Format:** lecture, discussion, interactive computer-based lessons, possible field trips. (3-0-3)
4. **Rationale:** All students, particularly those studying and living on the coast, need the opportunity to acquire an understanding of the science, policies, hazards, and economics associated with the coastal environment and community. Coupling this course with COST4140 Environmental Justice & Coastal Risk Management, students will have the opportunity to study these aspects of coastal environments and gain an understanding of how they can plan to apply their field-specific expertise toward the development of solutions that address coastal issues in Environmental Justice.
5. **Credit Hours:** 3
6. **Pre-requisites:** none
7. **Syllabus:** see attached
8. **Similarity to or duplication of Existing Courses:** none
9. **Textbook selection:** Course will utilize online educational materials (OEM) in support of Affordable Learning Georgia (ALG) efforts.
10. **Grading:** Students will be evaluated based upon performance in participation, assignments and quizzes, project, and comprehensive lecture and comprehensive final exams. See attached.

Savannah State University
College of Sciences & Technology
Department of Marine & Environmental Sciences
Environmental Sciences Program
COST1140.XX Coastal Hazards & Environmental Risk (CRN: XXXXX)
Fall 2016

Instructor & Title:

Office Location:

Office Hours:

Telephone:

E-Mail:

Course Credit Hours: 3

Class Location:

Class Time:

COURSE DESCRIPTION:

Students will be introduced to major coastal processes and issues including interactions between land and water as well as humans and the coast. They will also study coastal hazards, risk perception, and vulnerability as they are familiarized with the major elements of Environmental Justice. This course will target students working toward completion of requirements for the Certificate in Coastal Risk, Management, and Environmental Justice; however, it can serve as a lower-level elective for students of all majors, science-based and non-science based.

Format: lecture, discussion, interactive computer-based lessons, possible field trips. (3-0-3)

COURSE OBJECTIVES:

The course is designed to introduce students to the coastal environment and its processes to help students identify and offer solutions to manage risk associated with social, cultural, and economic disparities. Students will consider how these disparities can impact susceptibility to coastal environmental hazards.

PREREQUISITES: None

STUDENT LEARNING OUTCOMES:

Institutional Student Learning Outcomes

The goal of Savannah State University is the mastery of graduates in the following areas:

1. Written Communication: The development and clear expression of ideas orally and in writing.
2. Critical Thinking: A habit of mind characterized by the comprehensive exploration of issues, ideas, artifacts, and events before accepting or formulating an opinion or conclusion.
3. Information Literacy: The ability to know when there is a need for information to be able to identify, locate, evaluate, and effectively and responsibly use and share that information for the problem at hand.
4. Quantitative Literacy: A "habit of mind," competency, and comfort in working with numerical data.
5. Ethical Reasoning: Ability to reason about right and wrong conduct. Development of framework of values on which to base moral analysis.
6. Integrative Learning: An understanding and disposition that a student builds across the curriculum and co-curriculum, from making simple connections among ideas and experiences to synthesizing and transferring learning to new, complex situations within and beyond the campus.

Upon successful completion of this course students should be able to

- (a). Name and describe the major natural coastal processes.
- (b). Name and describe the anthropogenic factors, including stressors, on the coastal environment.
- (c). Define major indicators of environmental health (i.e. biodiversity and resiliency).

- (d). Demonstrate understanding of the differences between hazards and risk perception, with particular focus on the coastal setting.
- (e). Identify and describe vulnerabilities and disparities in access to safe and sustainable environmental resources (environmental justice) that may be associated with financial, social, and/or cultural status
- (f). Begin to formulate management solutions for coastal community sustainability and resiliency.

REQUIRED TEXTS AND MATERIALS:

In support of Affordable Learning Georgia, literature and other course materials will be made available from Open Stax, Science Education Resource Center InTeGrate module materials, and others through Brightspace Desire-2-Learn interface and LibGuides, in partnership with the SSU library. You are responsible for frequently checking News and Discussion Boards.

Supplies:

- A notebook to take notes and store handouts
- Flash/thumb drive or other digital storage device (strongly suggested) to **frequently back-up materials** related to the course. Computer failures tend to occur when you least expect them and when it is most inconvenient.

PEDAGOGICAL APPROACH:

Attendance Policy: A necessary component for success in this course is participation. Thus, class attendance is key to ensure that you will be exposed to the course content and other resources that will be available. In an effort to make an optimal learning experience for all, students must arrive on time so as not to distract their classmates. As tempting as it may be, do not schedule work hours for class time. Missing class negatively affects yours and your classmates' ability to succeed in the course.

Student-athletes MUST provide a copy of their game schedule in the Desire-2-Learn dropbox by the end of the first week of class (no later than XXXXX) AND make PRIOR arrangements with the instructor for any assignments or exams that will be missed for university-approved athletic events.

Academic Honesty: Student should read the entire text from the catalog regarding SSU Honesty Policy and adhere to the same. A section has been copied here. The instructor reserves the right to dismiss a student from class for academic dishonesty.

From page 44 of the Student Handbook

<https://www.savannahstate.edu/student-affairs/documents/Savannah-State-University-2014-2015-Student-Handbook-Housing-Policies.pdf>:

“Academic Dishonesty: Students are subject to disciplinary action for engaging in academic misconduct, which includes, but is not limited to, the following:

- a. Submitting another's work as one's own or allowing another to submit one's work as though it were his or hers.
- b. Several people completing an assignment and turning in multiple copies, all represented either implicitly or explicitly as individual work.
- c. Failure to properly acknowledge authorities quoted, cited or consulted in the preparation of written work (plagiarism). Specific examples of plagiarism are:
 - i. Copying and/or presenting the words of others as one's own writing, including from Internet sources.
 - ii. Copying words, even if you cite the sources, unless appropriate quotation is noted.
 - iii. Copying words and then changing them a little, even if you give the source.
 - iv. Expressing in your own words someone else's ideas as your own.
- d. The use of any materials, textbook, notes, cellular phones, MP3 players, or other electronic devices during an examination without the expressed permission of the instructor.
- e. The receiving or giving of unauthorized help on assignments.

- f. Stealing a problem solution from an instructor.
- g. Tampering with experimental data to obtain 'desired' results or creating results for experiments not done ("dry labbing").
- h. Tampering with or destroying the work of others.
- i. Submitting substantial portions of the same academic work for credit of honors more than once without permission of the present instructor.
- j. Lying about these or other academic matters.
- k. Falsifying college records, forms or other documents."

*Please be aware that your submissions may be scanned through SafeAssign anti-plagiarism software to check for originality. (See <http://www.cod.edu/lt/blackboard/SafeAssign/SafeAssignFAQ.htm> for details.)

Exam Retention Policy: Instructor may retain all the copies of the exam and the answer sheets for student future reference.

Make-up Exam Policy: You must let the instructor know PRIOR to the test date or as soon as possible if you are unable to take an exam for non-academic reasons. Failure to do so will result in a grade of 0. If you are unable to attend an exam, you must notify the instructor as soon as possible AND before the exam. If there is an emergency that prevents you from notifying the instructor before the exam, you MUST provide an official document (i.e. on official letterhead) stating the reason that you could not attend class to take the exam in order to be excused. Examples of appropriate documents include letter from court/law enforcement/health/hospital official, clergy, or funeral director. In general, **there will be no post-exam make ups**. If you have met the excuse requirements, the weight of your other exams will be adjusted accordingly (i.e. One excused exam absence will result in the remaining two lecture exams counting as 15% each instead of 10%). *Unexcused exam absences* will count as zero (0) for that exam. Please, for your sake, make arrangements beforehand. **Reminder: Student-athletes must provide a copy of their game schedule.**

Work submission policy, including penalties: All assignments must be submitted in time. Late submissions will incur a **one letter grade penalty per day (including days that we do not meet)**. No submissions will be accepted after the last day of class, **XXXXX**.

Withdrawal from the class: **XXXXX**, last day for withdraw/drop a course without academic penalty. See the current SSU Academic Calendar for this semester.

Class participation policy: Each student is expected to **participate** in course discussions. There are points for participation allocated in the course assessment. During class, the use of **electronic devices** for any non-course related purpose is strictly prohibited and may be severely penalized. **Inappropriate classroom attire** can detract from classmate participation, creates an unprofessional environment, and "As a member of the University community, it is expected that every student will have the opportunity to experience success inside and outside of the classroom. As such, students are encouraged to dress appropriately on the campus and will be denied admission to various functions if their manner of dress is inappropriate...A student's attire should never be lewd, indecent, or inappropriate, as it is unbecoming of a success-oriented Savannah State University student. Thus outer clothing must cover undergarments and private body features." (SSU Dress Code Policy, Approved by President's Cabinet 02 Sep 2008).

Policy regarding advance preparation for class: Students are required to complete reading of material and any assignments to be able to come prepared to class BEFORE the topic is covered by the instructor. **Therefore students are expected to follow the general rule that for “every hour spent in class, 1-2 hours will need to be spent on the course material outside of the classroom” to be successful in the class.** This is a component of participation.

Projects: A significant component of this course is exposure to information on natural and anthropogenic hazards in the coastal community to help you integrate that information into your other academic knowledge to lead towards management solutions. Thus, cross-discipline understanding and interaction will be demonstrated through developing a proposal with classmates (group project) that will formulate improvements to existing proposed solutions or create novel solutions for managing risk vulnerability in coastal settings. You must be fully involved in this/these project(s) to be considered for full general participation points in the course and for the Project portion of your grade.

Assignment submission

If you are making submissions via email, do not cut and paste assignments into body of email, send work as attachments instead. When naming the file and subject line, please start with your last name and first initial and end with submission date and with the following example format:

LastnameF_ENVS 2101-01_ManagementProposal_1Oct2016. If your name were John Public, your file name and email subject line for an assignment titled “Management Proposal” would be PublicJ_COST1140-01_ManagementProposal_1Oct2016.

Deductions may be made from your score if you do not follow these instructions.

Quizzes & Exams

Scheduled quizzes, pop quizzes, and exams will start at the beginning of the class period. Generally, quizzes will only be 15 min (exams 1 hr.) then we will move on to the material for the class period. Thus, those arriving late will sacrifice that portion of their allotted quiz/exam time. Also, all exams will have a cumulative component to enhance assimilation of the material.

Writing

In support of the Savannah State University's **Quality Enhancement Program**, “The Write Attitude,” and the outcomes of this course, students will produce a minimum of four (4) pages of writing during the semester in a variety of forms. Keep in mind that this is the minimum.

GRADE DETERMINATION:

Requirement		Approximate Weight		GRADING SCALE:	
Participation		20%		<u>Percent</u>	<u>Grade</u>
Three (3) lecture exams @ 10% ea.*		30%		90-100	A
Assignments & Quizzes**		10%		80-89	B
Project: Developing Service Learning Project proposal		20%		70-79	C
Final Comprehensive Exam*		20%		60-69	D
				<60	F
Total		100%			

Note: *All exams will have a cumulative component to enhance your assimilation of the material. **QEP: 4; essays, quantitative analysis, pop & scheduled quizzes, project.

Additional note: The participation component of the grade (20%) will be determined in part by peer evaluation of effort in group project, documented participation in weekly activity blog, field trip attendance, and

participation in class discussions and discussion boards/chat sessions. Every effort will be made to have fieldtrip times adhere to class block time.

STUDENT SERVICES/ASSISTANCE (also see schedule from the Quality Enhancement Program (QEP). You will receive a message from the QEP office with the session schedule and I plan to post it under news on Desire-2-Learn. Sessions *may* be assigned throughout the semester):

DISABILITY ACCOMMODATIONS AND PERSONAL COUNSELING ON CAMPUS:

Savannah State University is committed to providing reasonable accommodations to students with documented disabilities, as required under federal law. Disabilities may include learning disabilities, ADD, psychological disorders, brain injury, Autism spectrum disorders, serious chronic medical illnesses, mobility impairment, vision or hearing loss or temporary injuries. The purpose of disability accommodation is to provide equal access to the academic material and equal access to demonstrate mastery of the material. Students with disabilities must meet all the academic requirements and standards of the class, including the attendance policy. If you have a disability and need accommodations, please contact Ms. Jacqueline Awe, at 912 358 3129. The Office of Counseling and Disability Services is located in King Frazier 233. You will need to meet with Ms. Awe, who can help you gather documentation of your disability or refer you to an appropriate resource for assessment. Once documentation of the disability is gathered and approved, Ms. Awe will provide you with an Accommodation Letter, detailing the appropriate, approved accommodations, which you should present to me so we can discuss and implement your accommodations.

SSU also provides free, professional, confidential, individual and group counseling, homeless services and referrals. The Counseling and Disability Centers are located in King Frazier 233, 8a.m. - 5p.m. 912 358 3129. Another resource for mental health emergencies is the GA Crisis and Access Line, available 24 hours a day at 1800 715 4225.

CENTER FOR ACADEMIC SUCCESS:

The Center for Academic Success provides comprehensive academic support classes, services and resources specifically designed to enhance student academic achievement and success. Resources provided include specialized advisement, testing and tutoring services. University College/CAS assists students with developing a roadmap for success as they pursue their personal and academic goals at Savannah State University.

Contact Information: Whiting Hall Room 253, Telephone (912) 358-3488; Facsimile: (912) 358-3684; Mailing Address: P.O. Box 20428 Savannah, Georgia 31404; Regular Office Hours: M-F 08:00H-17:00H;

<http://www.savannahstate.edu/cas/index.shtml>

SSU WRITING CENTER (paraphrased from website):

They work with anyone on campus on a one-to-one basis on any writing project – from brainstorming to revision to final touches. They will help you to identify your strong and not-so-strong writing habits and help you perfect your strengths and improve your potential strengths. However, they will not do the work for you. Plan to spend 30-60 minutes with your Writing Coach and be on-time for appointments with your paper already printed. They do have computers and a printer for your use. If you know you need to print the paper you wish them to help with, come a few minutes early so it is printed before your 30-minute appointment starts. That way, you will get the entire 30 minutes to work on your writing assignment. If you plan to use their computers, know your SSU login (user name and password). You can get this information from SSU computer services by calling 358-HELP (4357) or by visiting Powell Hall. Bring your syllabus and/or writing assignment guidelines. They can help you fulfill your writing requirements better if they know what is expected.

Contact Information: Payne Hall 201; 358-4495; ssuwritingcenter@savannahstate.edu or

<http://www.savannahstate.edu/class/writing-center/> for more information or to schedule an appointment.

Hours: 08:00H - 18:00H; first appt. – 08:30H, last appt. – 16:30H. Appointments work best for midterms, finals, presentations, & professor required visits because they fill their time quickly.

Core Values of Student Conduct at Savannah State University (Tiger Values)

Integrity: Savannah State students exemplify honesty, honor and a respect for the truth in all of their dealings.

Community: Savannah State students build and enhance their community. Savannah State students will be active and engaged citizens.

Social Justice: Savannah State students are just and equitable in their treatment of all members of the community and act to discourage and/or intervene to prevent unjust and inequitable behaviors.

Respect: Savannah State students show positive regard for each other, for property and for the community.

Responsibility: Savannah State students are given and accept a high level of responsibility to self, to others and to the community.

Tradition: Savannah State students recognize the importance of our traditions and the legacy we leave for future generations of students.

Notes:

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Proposed COURSE OUTLINE

The following outline and readings may change as the course progresses, as the instructor deems necessary, given student interests and needs. You are to be prepared to present thoughtful questions to enhance dialogue, and be prepared to offer relevant points to class discussion.

Date*	Anticipated Topic(s)	Examples for expansion of Topic
Week 1	Brief Introduction, syllabus, email/contact information, expectations, Desire-to-Learn Basic Concepts & Tools	Unit Conversion: Go metric! Basics in Human Populations & Environmental Trade
Week 2	Basic Concepts & Tools Follow-up; Introduction to types of Coastal Habitats: Salt Marsh, Mangroves, Rocky Shores, Polar Coasts, etc.	
Week 3	Physical and Geological Processes in Coastal Habitats	Environmental Parameters, Population distribution
Week 4	Introduction to Sustainability, Coastal Environments, Environmental Justice; Carrying Capacity and Ecological Footprint	Global Footprint; Impact of personal activities on the coastal environment
Week 5	Coastal Population Growth & Migration: Are they sustainable?	Property value risks
Week 6	Interactions between Water, Earth's Surface, and Human Activity	Introduction to water cycle and geological cycle and scales Hazards & Risks: Natural & Anthropogenic
Week 7	Interactions between Water, Earth's Surface, and Human Activity	Movement of particles and compounds between
Week 8	Coastal Environment in Port Cities	Air Pollution, Invasive Species, Water Pollution, Aerial & Aquatic Soundscapes
Week 10	Assessing Hazards, Vulnerability, and Risk I Natural Hazards and Risks on the Coast: Hurricanes	Leading and trailing plate margins Flooding: storms, tides, rivers, position relative to sea level; Hurricanes
Week 11	Natural Hazards and Risks on the Coast: Accelerated Sea Level Rise	Barrier islands, solid and pliable margins,
Week 12	Sustainable Energy from the Coast	Tidal energy, wind energy
Week 13	Coastal Freshwater Supplies	Water cycle (aquifer/surface water sources), human impacts throughout
Week 14	Buried or All Washed Up: Solid Waste on the Coast	Microplastics, technological wastes
Week 15	Metals, Petro-, Erosion, Run-off. Oh My! Pollutants in Coastal Environments	Water, air, sediment & soil pollution types & processes
Week 16	Final Proposal Submission & Presentations	

NOTES:

***All dates and topics are tentative and subject to adjustment by instructor.**

*Assignment descriptions here are brief. Pay close attention to guidelines provided in class.

*3-4 Fieldtrip opportunities will be made available during the course of the semester as a chance for you to get to know regional coastal habitats and the intersection between



**Savannah State University
New Programs and Curriculum Committee
Course Addition Page – Form II**

1. **Course Number:** COST 4140K
2. **Course Title:** COST 4140K Environmental Justice & Coastal Risk Management
3. **Catalogue Description:** Students will develop and implement action plans to address complex interdisciplinary issues of coastal hazards, requiring an understanding of the natural and built environments, vulnerable communities and ecosystems, environmental law, urban settings, and environmental justice in the context of the densely populated coastlines, and their unique resources and hazards. Students will assimilate the issue with the lens of management and their specific backgrounds in this interdisciplinary setting. Includes completion of one major Service Learning Project to raise awareness of at least one coastal environmental hazard toward the reduction of disproportional risk exposure. **Format:** use of case studies, discussion, service-learning collaborative project(s), possible field trips. Pre-requisite: COST1140. (3-1-4)
4. **Rationale:** All students, particularly those studying and living on the coast, need the opportunity to acquire an understanding of the science, policies, hazards, and economics associated with the coastal environment and community. Coupling this course with COST 1140 **Coastal Hazards & Environmental Risk**, students will have the opportunity to study these aspects of coastal environments and work to apply their field-specific expertise toward the development of solutions that address coastal issues in Environmental Justice.
5. **Credit Hours:** 4
6. **Pre-requisites:** COST 1140
7. **Syllabus:** see attached
8. **Similarity to or duplication of Existing Courses:** none
9. **Textbook selection:** Course will utilize online educational materials (OEM) in support of Affordable Learning Georgia (ALG) efforts.
10. **Grading:** Students will be evaluated based upon performance in participation, assignments and quizzes, project, and comprehensive lecture and comprehensive final exams. See attached

Savannah State University
College of Sciences & Technology
Department of Marine & Environmental Sciences
Environmental Sciences Program
COST 4140K.XX Environmental Justice and Coastal Risk Management (CRN: XXXXX)
Fall 2016

Instructor & Title:

Office Location:

Office Hours:

Telephone:

E-Mail:

Course Credit Hours: 4

Class Location:

Class Time:

COURSE DESCRIPTION:

Students will develop and implement action plans to address complex interdisciplinary issues of coastal hazards, requiring an understanding of the natural and built environments, vulnerable communities and ecosystems, environmental law, urban settings, and environmental justice in the context of the densely populated coastlines, and their unique resources and hazards. Students will assimilate the issue with the lens of management and their specific backgrounds in this interdisciplinary setting. Includes completion of one major Service Learning Project to raise awareness of at least one coastal environmental hazard toward the reduction of disproportional risk exposure. **Format:** use of case studies, discussion, service-learning collaborative project(s), possible field trips. (3-1-4)

COURSE OBJECTIVES:

The course is designed to help students recognize the relevancy of their science- and non-science fields of study to coastal issues, including hazards. Students will also learn to apply their knowledge and skills toward the development of solutions to challenges that are associated with social, cultural, and economic disparities in the coastal regions. Students design solutions and participate in implementation projects that address education and disparities in risk exposure to coastal hazards.

PREREQUISITES: COST 1140.

STUDENT LEARNING OUTCOMES:

Institutional Student Learning Outcomes

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1. Written Communication: The development and clear expression of ideas orally and in writing.
2. Critical Thinking: A habit of mind characterized by the comprehensive exploration of issues, ideas, artifacts, and events before accepting or formulating an opinion or conclusion.
3. Information Literacy: The ability to know when there is a need for information to be able to identify, locate, evaluate, and effectively and responsibly use and share that information for the problem at hand.
4. Quantitative Literacy: A “habit of mind,” competency, and comfort in working with numerical data.
5. Ethical Reasoning: Ability to reason about right and wrong conduct. Development of framework of values on which to base moral analysis.
6. Integrative Learning: An understanding and disposition that a student builds across the curriculum and co-curriculum, from making simple connections among ideas and experiences to synthesizing and transferring learning to new, complex situations within and beyond the campus.

Upon successful completion of this course students should be able to

- (a). Identify hazards and potential disparities in coastal regions, particularly urban settings.
- (b). Determine issues with sustainability in resource availability and identify relevant management solutions.
- (c). Define and identify antagonists to major indicators of environmental health (i.e. biodiversity and resiliency).
- (d). Define issues in Environmental Justice by demonstrating an understanding of the differences between hazards, risk vulnerability, and risk perception, with particular focus on the coastal setting.
- (e). Integrate theirs and others' diverse skillsets into a thoughtful service project toward the education of a specific audience and/or resolution of a specific coastal environmental challenge.

REQUIRED TEXTS AND MATERIALS:

In support of Affordable Learning Georgia, literature and other course materials will be made available from Open Stax, Science Education Resource Center InTeGrate module materials, and others through Brightspace Desire-2-Learn interface and LibGuides, in partnership with the SSU library. You are responsible for frequently checking News and Discussion Boards.

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PEDAGOGICAL APPROACH:

Attendance Policy: A necessary component for success in this course is participation. Thus, class attendance is key to ensure that you will be exposed to the course content and other resources that will be available. In an effort to make an optimal learning experience for all, students must arrive on time so as not to distract their classmates. As tempting as it may be, do not schedule work hours for class time. Missing class negatively affects yours and your classmates' ability to succeed in the course.

Student-athletes MUST provide a copy of their game schedule in the Desire-2-Learn dropbox by the end of the first week of class (no later than XXXXX) AND make PRIOR arrangements with the instructor for any assignments or exams that will be missed for university-approved athletic events.

Academic Honesty: Student should read the entire text from the catalog regarding SSU Honesty Policy and adhere to the same. A section has been copied here. The instructor reserves the right to dismiss a student from class for academic dishonesty.

From page 44 of the Student Handbook

<https://www.savannahstate.edu/student-affairs/documents/Savannah-State-University-2014-2015-Student-Handbook-Housing-Policies.pdf>:

“Academic Dishonesty: Students are subject to disciplinary action for engaging in academic misconduct, which includes, but is not limited to, the following:

- a. Submitting another's work as one's own or allowing another to submit one's work as though it were his or hers.
- b. Several people completing an assignment and turning in multiple copies, all represented either implicitly or explicitly as individual work.
- c. Failure to properly acknowledge authorities quoted, cited or consulted in the preparation of written work (plagiarism). Specific examples of plagiarism are:
 - i. Copying and/or presenting the words of others as one's own writing, including from Internet sources.
 - ii. Copying words, even if you cite the sources, unless appropriate quotation is noted.
 - iii. Copying words and then changing them a little, even if you give the source.
 - iv. Expressing in your own words someone else's ideas as your own.

- d. The use of any materials, textbook, notes, cellular phones, MP3 players, or other electronic devices during an examination without the expressed permission of the instructor.
- e. The receiving or giving of unauthorized help on assignments.
- f. Stealing a problem solution from an instructor.
- g. Tampering with experimental data to obtain 'desired' results or creating results for experiments not done ("dry labbing").
- h. Tampering with or destroying the work of others.
- i. Submitting substantial portions of the same academic work for credit of honors more than once without permission of the present instructor.
- j. Lying about these or other academic matters.
- k. Falsifying college records, forms or other documents."

*Please be aware that your submissions may be scanned through SafeAssign anti-plagiarism software to check for originality. (See <http://www.cod.edu/lt/blackboard/SafeAssign/SafeAssignFAQ.htm> for details.)

Exam Retention Policy: Instructor may retain all the copies of the exam and the answer sheets for student future reference.

Make-up Exam Policy: You must let the instructor know PRIOR to the test date or as soon as possible if you are unable to take an exam for non-academic reasons. Failure to do so will result in a grade of 0. If you are unable to attend an exam, you must notify the instructor as soon as possible AND before the exam. If there is an emergency that prevents you from notifying the instructor before the exam, you MUST provide an official document (i.e. on official letterhead) stating the reason that you could not attend class to take the exam in order to be excused. Examples of appropriate documents include letter from court/law enforcement/health/hospital official, clergy, or funeral director. In general, **there will be no post-exam make ups**. If you have met the excuse requirements, the weight of your other exams will be adjusted accordingly (i.e. One excused exam absence will result in the remaining two lecture exams counting as 15% each instead of 10%). *Unexcused exam absences* will count as zero (0) for that exam. Please, for your sake, make arrangements beforehand. **Reminder: Student-athletes must provide a copy of their game schedule.**

Work submission policy, including penalties: All assignments must be submitted in time. Late submissions will incur a **one letter grade penalty per day (including days that we do not meet)**. No submissions will be accepted after the last day of class, **XXXXX**.

Withdrawal from the class: **XXXXX**, last day for withdraw/drop a course without academic penalty. See the current SSU Academic Calendar for this semester.

Class participation policy: Each student is expected to **participate** in course discussions. There are points for participation allocated in the course assessment. During class, the use of **electronic devices** for any non-course related purpose is strictly prohibited and may be severely penalized. **Inappropriate classroom attire** can detract from classmate participation, creates an unprofessional environment, and "As a member of the University community, it is expected that every student will have the opportunity to experience success inside and outside of the classroom. As such, students are encouraged to dress appropriately on the campus and will be denied admission to various functions if their manner of dress is inappropriate...A student's attire should never be lewd, indecent, or inappropriate, as it is unbecoming of a success-oriented Savannah State University student. Thus outer clothing must cover undergarments and private body features." (SSU Dress Code Policy, Approved by President's Cabinet 02 Sep 2008).

Policy regarding advance preparation for class: Students are required to complete reading of material and any assignments to be able to come prepared to class BEFORE the topic is covered by the instructor. **Therefore students are expected to follow the general rule that for “every hour spent in class, 1-2 hours will need to be spent on the course material outside of the classroom” to be successful in the class.** This is a component of participation.

Projects: As a combined lecture and laboratory course, COST 4140K requires that a significant component of the grade be determined from the experiential, service-learning component of the course. The goal of the project(s) is/are the development and implementation of student-driven coastal community risk management solutions. Thus, cross-discipline understanding and interaction will be demonstrated through developing proposals and delivering substantial, structured improvements to existing and/or novel solutions for managing risk vulnerability in coastal settings.

Assignment submission

If you are making submissions via email, do not cut and paste assignments into body of email, send work as attachments instead. When naming the file and subject line, please start with your last name and first initial and end with submission date and with the following example format:

LastnameF_COST4140K-01_ManagementProposal_1Oct2016. If your name were John Public, your file name and email subject line for an assignment titled “Management Proposal” would be PublicJ_COST4140K-01_ManagementProposal_1Oct2016.

Deductions will be made from your score if you do not follow these instructions.

Quizzes & Exams

Scheduled quizzes, pop quizzes, and exams will start at the beginning of the class period. Generally, quizzes will only be 15 min (exams 1 hr.) then we will move on to the material for the class period. Thus, those arriving late will sacrifice that portion of their allotted quiz/exam time. Also, all exams will have a cumulative component to enhance assimilation of the material.

Writing

In support of the Savannah State University's **Quality Enhancement Program**, “The Write Attitude,” and the outcomes of this course, students will produce a minimum of ten (10) pages of writing during the semester in a variety of forms. Keep in mind that this is the minimum.

GRADE DETERMINATION:

Requirement		Approximate Weight		GRADING SCALE:	
				Percent	Grade
Participation		20%		90-100	A
Three (2) lecture exams @ 10% ea.*		20%		80-89	B
Assignments & Quizzes**		10%		70-79	C
Project		30%		60-69	D
Final Comprehensive Exam*		20%		<60	F
Total		100%			

Note: *All exams will have a cumulative component to enhance your assimilation of the material. **QEP: 10; essays, quantitative analysis, pop & scheduled quizzes, project.

Additional note: The participation component of the grade (20%) will be determined in part by peer evaluation of effort in group project, documented participation in weekly activity blog, field trip attendance, and participation in class discussions and discussion boards/chat sessions. Every effort will be made to have fieldtrip times adhere to class block time.

STUDENT SERVICES/ASSISTANCE (also see schedule from the Quality Enhancement Program (QEP). You will receive a message from the QEP office with the session schedule and I plan to post it under news on Desire-2-Learn. Sessions *may* be assigned throughout the semester):

DISABILITY ACCOMMODATIONS AND PERSONAL COUNSELING ON CAMPUS:

Savannah State University is committed to providing reasonable accommodations to students with documented disabilities, as required under federal law. Disabilities may include learning disabilities, ADD, psychological disorders, brain injury, Autism spectrum disorders, serious chronic medical illnesses, mobility impairment, vision or hearing loss or temporary injuries. The purpose of disability accommodation is to provide equal access to the academic material and equal access to demonstrate mastery of the material. Students with disabilities must meet all the academic requirements and standards of the class, including the attendance policy. If you have a disability and need accommodations, please contact Ms. Jacqueline Awe, at 912 358 3129. The Office of Counseling and Disability Services is located in King Frazier 233. You will need to meet with Ms. Awe, who can help you gather documentation of your disability or refer you to an appropriate resource for assessment. Once documentation of the disability is gathered and approved, Ms. Awe will provide you with an Accommodation Letter, detailing the appropriate, approved accommodations, which you should present to me so we can discuss and implement your accommodations.

SSU also provides free, professional, confidential, individual and group counseling, homeless services and referrals. The Counseling and Disability Centers are located in King Frazier 233, 8a.m. - 5p.m. 912 358 3129. Another resource for mental health emergencies is the GA Crisis and Access Line, available 24 hours a day at 1800 715 4225.

CENTER FOR ACADEMIC SUCCESS:

The Center for Academic Success provides comprehensive academic support classes, services and resources specifically designed to enhance student academic achievement and success. Resources provided include specialized advisement, testing and tutoring services. University College/CAS assists students with developing a roadmap for success as they pursue their personal and academic goals at Savannah State University.

Contact Information: Whiting Hall Room 253, Telephone (912) 358-3488; Facsimile: (912) 358-3684; Mailing Address: P.O. Box 20428 Savannah, Georgia 31404; Regular Office Hours: M-F 08:00H-17:00H;
<http://www.savannahstate.edu/cas/index.shtml>

SSU WRITING CENTER (paraphrased from website):

They work with anyone on campus on a one-to-one basis on any writing project – from brainstorming to revision to final touches. They will help you to identify your strong and not-so-strong writing habits and help you perfect your

strengths and improve your potential strengths. However, they will not do the work for you. Plan to spend 30-60 minutes with your Writing Coach and be on-time for appointments with your paper already printed. They do have computers and a printer for your use. If you know you need to print the paper you wish them to help with, come a few minutes early so it is printed before your 30-minute appointment starts. That way, you will get the entire 30 minutes to work on your writing assignment. If you plan to use their computers, know your SSU login (user name and password). You can get this information from SSU computer services by calling 358-HELP (4357) or by visiting Powell Hall. Bring your syllabus and/or writing assignment guidelines. They can help you fulfill your writing requirements better if they know what is expected.

Contact Information: Payne Hall 201; 358-4495; ssuwritingcenter@savannahstate.edu or

<http://www.savannahstate.edu/class/writing-center/> for more information or to schedule an appointment.

Hours: 08:00H - 18:00H; first appt. – 08:30H, last appt. – 16:30H. Appointments work best for midterms, finals, presentations, & professor required visits because they fill their time quickly.

Core Values of Student Conduct at Savannah State University (Tiger Values)

Integrity: Savannah State students exemplify honesty, honor and a respect for the truth in all of their dealings.

Community: Savannah State students build and enhance their community. Savannah State students will be active and engaged citizens.

Social Justice: Savannah State students are just and equitable in their treatment of all members of the community and act to discourage and/or intervene to prevent unjust and inequitable behaviors.

Respect: Savannah State students show positive regard for each other, for property and for the community.

Responsibility: Savannah State students are given and accept a high level of responsibility to self, to others and to the community.

Tradition: Savannah State students recognize the importance of our traditions and the legacy we leave for future generations of students.

Notes:

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are approximately 20 lines visible. The paper appears to be a standard notebook page or a sheet of stationery.

Proposed COURSE OUTLINE AND READING ASSIGNMENTS

The following outline and readings may change as the course progresses, as the instructor deems necessary, given student interests and needs. You are to be prepared to present thoughtful questions to enhance dialogue, and be prepared to offer relevant points to class discussion.

Date*	Lecture/Discussion/	Example for Expansion of Topic*
Week 1	-Brief Introduction, syllabus, email/contact information, expectations, Desire-to-Learn -Review of Basic Concepts in Coastal Environments and Sustainability	Review of metric system and population & trade basics & issues
Week 2	-Review of Basic Concepts in Sustainability, Coastal Environments, and Sustainability -Introduction to Management & Environmental Justice -Issuance of Service Learning Charge	-metric, population basics, trade basics cont'd -EJ defined, major themes and regional advocacy groups to be discussed in the course
Week 3	Interactions between Water, Earth's Surface, and Human Activity	Review of concepts, recent developments
Week 4	Policies & Practices at interfaces with water	-Clean Air Act, Clean Water Act -Municipalities & County Interactions
Week 5	Assessing Hazards, Vulnerability, and Risk II	-Geological, Meteorological, Chemical, Ecological Hazards -Human & Environmental Resiliency
Week 6	Assessing Hazards, Vulnerability, and Risk III	Anthropogenic Hazards -Coastal Resiliency
Week 7	-Hydrologic Cycle and Water Diversion: Use & Management -Flooding Hazards	-Irrigation & agriculture, community gardens -Canal systems
Week 8	-Port Cities -Surveying & Introduction to Case Studies	Panama Canal & Charleston, Miami, Jacksonville, Savannah, and other ports
Week 9	-Surveying & Introduction to Case Studies -Service Learning Project Implementation	Municipal Solid Waste Management on the Coast
Week 10	-Case Study -Project Implementation	-Disparities in developing countries; Women & Water Access -Amendments to project scope
Week 11	-Case Study -Project Implementation	-Pollutants in Coastal Environments -Hazardous Waste & Love Canal
Week 12	-Case Study -Project Implementation	Conservation & Culture-Harris Neck
Week 13	-Case Study -Project Implementation	Restoration & Resiliency
Week 14	-Case Study -Project Implementation	Assessing impact
Week 15	-Case Study -Project Implementation	-Service Learning -Follow-up, planning for next steps
Week 16	Final Project Presentations & Paper Submission	

NOTES:

*All dates and topics are tentative and subject to adjustment by instructor.

*Assignment descriptions here are brief. Pay close attention to guidelines provided in class.

*Expect a minimum of 3-4 required fieldtrips during the course of the semester, during lab days.