Submit original with signatures + 1 copy + electronic copy to Faculty Senate (Box 7500).

See <a href="http://www.uaf.edu/uafgov/faculty-senate/curriculum/course-degree-procedures-/">http://www.uaf.edu/uafgov/faculty-senate/curriculum/course-degree-procedures-/</a> for a complete description of the rules governing curriculum & course changes.

	00110050	D 11514/ 001/00	
IKIAL	COURSE O	R NEW COURS	E PROPOSAL

IDMITTED DV								
UBMITTED BY								
Department	<b>Environmental Studies</b>		College/School			CRCD		
Prepared by	Clint Reigh		Phone			907-842-5109		
Email Contact	creigh@alaska.edu			Faculty Contact		D	Dr. Todd Radenbaugh	
1. ACTION DESIRED (CHECK ONE):			Cours	e		New Cou	New Course X	
2. COURSE IL	DENTIFICATION:	Dept	EN	IVI	Course #	116P N	lo. of Cre	edits 1
	er/lower division mber of credits:	There are no pre					e as an intr	roduction landfill
3. PROPOSEL	COURSE TITLE:		Ru	ıral Alas	ska Land	fill Operator	(RALO	))
4. To be CRO	SS LISTED? YES/NO proval of both departr	NO neets and doors		es, Dept:	as at and of	Course :		d signatures )
5. To be STAC		NO NO	CHECK TO	s, Dept.	es at end of	Cours		u signatures.)
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10. <u>COMPLETE</u> CATALOG DESCRIPTION including dept., number, title, credits, credit distribution, cross-listings and/or stacking (50 words or less if possible):

Example of a complete description:

## FISH F487 W, O Fisheries Management 3 Credits Offered Spring Theory and practice of fisheries management, with an emphasis on strategies utilized for the management of freshwater and marine fisheries. Prerequisites: COMM F131X or COMM F141X; ENGL F111X; ENGL F211X or ENGL F213X; ENGL F414; FISH F425; or permission of instructor. Cross-listed with NRM F487. (3+0) ENVI F116P Rural Alaska Landfill Operator (RALO) 1 credit Offered as demand warrants Covers best practices in managing rural landfills in compliance with State of Alaska regulations and guidelines with an emphasis on operator and public safety. This course is designed to train operators for rural Alaska Class II and Class III landfills and a passing grade results in formal recognition by the Solid Waste Association of North America-Alaska (SWANA-Alaska). Graded pass/fail (1+0). 11. COURSE CLASSIFICATIONS: Undergraduate courses only. Consult with CLA Curriculum Council to apply S or H classification appropriately; otherwise leave fields blank. H = Humanities S = Social Sciences Will this course be used to fulfill a requirement YES: NO: X for the baccalaureate core? If YES, attach form. IF YES, check which core requirements it could be used to fulfill: Natural Science, ("X" for O = Oral Intensive, Format 6 W = Writing Intensive, Format 7 Core) Format 8 11.A Is course content related to northern, arctic or circumpolar studies? If yes, a "snowflake" symbol will be added in the printed Catalog, and flagged in Banner. $\mathbf{X}$ 12. COURSE REPEATABILITY: Is this course repeatable for credit? YES NO Justification: Indicate why the course can be repeated (for example, the course follows a different theme each time). How many times may the course be repeated for credit? TIMES 0 If the course can be repeated for credit, what is the maximum number of credit hours that **CREDITS** may be earned for this course? If the course can be repeated with variable credit, what is the maximum number of credit **CREDITS** hours that may be earned for this course? 13. GRADING SYSTEM: Specify only one. Note: Later changing the grading system for a course constitutes a Major Course Change. PASS/FAIL: X LETTER: RESTRICTIONS ON ENROLLMENT (if any) 14. PREREQUISITES These will be required before the student is allowed to enroll in the course. 15. SPECIAL RESTRICTIONS, CONDITIONS none 16. PROPOSED COURSE FEES Has a memo been submitted through your dean to the Provost for fee approval? 17. PREVIOUS HISTORY Has the course been offered as special topics or trial course previously? Yes Yes/No Spring 2014, ENVI 193 Rural Alaska Landfill Operator (RALO)Course If yes, give semester, year, course #, etc.: Description: This course is designed by the Solid Waste Association of North America Alaska Chapter ("SWANA-Alaska") to train landfill operators

for rural Alaska Class II and Class III landfills and a passing grade

results in certification by SWANA-Alaska. Students will learn best practices in managing a landfill in compliance with State of Alaska regulations and guidelines. Operator roles and responsibilities are discussed with emphasis on operator and public safety.

#### 18. ESTIMATED IMPACT

WHAT IMPACT, IF ANY, WILL THIS HAVE ON BUDGET, FACILITIES/SPACE, FACULTY, ETC.

Minimal impact on budget, facilities, and classroom space. Classes will be taught by approved adjunct instructors.

#### 19. LIBRARY COLLECTIONS

Have you contacted the library collection development officer (kljensen@alaska.edu, 474-6695) with regard to the adequacy of library/media collections, equipment, and services available for the proposed course? If so, give date of contact and resolution. If not, explain why not.

No X Yes no additional r

no additional resources needed

#### 20. IMPACTS ON PROGRAMS/DEPTS

What programs/departments will be affected by this proposed action? Include information on the Programs/Departments contacted (e.g., email, memo)

Environmental Studies and Tribal Management have been identified as programs/departments that should be positively impacted by the addition of the course.

## Memo from Kevin Illingworth, Coordinator of Tribal Management Program

"This email is to support the Environmental Studies program in the development of ENVI 115 Rural Solid and Hazardous Waste Management, ENVI 116 Rural Alaska Landfill Operator, ENVI 117 Community Spill Response. This course will have a positive impact on the Tribal Management Program and on the academic and vocational success of Tribal Management students and tribal communities in Alaska. Tribes across the State of Alaska are in dire need for education and training opportunities related to environmental science and natural resource management. In 2001 the Tribal Management Program responded

environmental science and natural resource management. In 2001 the Tribal Management Program responded to this need by developing an area of emphasis in Environmental and Natural Resource Management within the Tribal Management program. With limited resources, the TM program has focused it's efforts on the Natural Resource Management side, and is very pleased to see the expansion coursework within the Environmental Studies program to help meet this need. Several TM graduates have graduated with ENVI coursework, and we expect that number to increase as more ENVI courses become available, both as on-sit intensives, as well as distance courses.

The Tribal Management program strongly supports the Environmental Studies program in the development of these much needed courses." 9/18/2014

#### 21. POSITIVE AND NEGATIVE IMPACTS

Please specify **positive** and **negative** impacts on other courses, programs and departments resulting from the proposed action.

The CRCD academic programs and rural communities across will benefit from the proposed course. Although UAF BBC serves the communities in Southwest Alaska, the course will be offered to communities throughout the state. Rural communities require informed individuals to operate solid waste facilities as well as manage hazardous waste and recycling efforts. There are no negative impacts on other programs or departments.

#### JUSTIFICATION FOR ACTION REQUESTED

The purpose of the department and campus-wide curriculum committees is to scrutinize course change and new course applications to make sure that the quality of UAF education is not lowered as a result of the proposed change. Please address this in your response. This section needs to be self-explanatory. Use as much space as needed to fully justify the proposed course.

The UAF College of Rural and Community Development serves the educational needs of communities in rural Alaska. This course meets those needs by offering students an overview of rural Alaska landfill operation and is offered in cooperation with Solid Waste Association of North America – Alaska Chapter (SWANA-Alaska). The course of study included in ENVI F116P could lead to significant improvements to public health in rural communities and the applied approach will provide opportunities for students to develop an understanding of problems that they will likely face working at rural waste facilities. Under a State of Alaska exemption, small rural Alaska communities are subject to less stringent federal laws applying to municipal solid waste disposal facilities. Some basic facts related to these landfills illustrate the public health implications of this exemption. These sites are unlined and allow untreated waste burning. Nearly three-quarters are located within one mile of community homes and within one-

quarter mile of drinking water sources. Nearly all are proximate to waterways that residents depend upon for subsistence activities and diet. The community health risks presented by these circumstances are significant. Because landfills are unlined and waste smoke is untreated, a typical community waste-stream is replete with materials that can leach out or emit toxic contaminants into the surrounding land and local air.

A majority of rural Alaskan landfills are close to their useful life expectancy but State funding for new facilities is limited to about one landfill per year across Alaska. Due to a limited road system in rural communities, residents can't rely on hubs or neighboring communities to serve as a landfill. The majority of communities receive barges just a few times during summer. The cost of over-winter storage and baling, barge shipping, and regional landfill tipping fees is so infeasible, consideration of the option is no longer required by the State. A study conducted in four villages in 2001 found that residents who visited their waste sites were 2 to 3.7 times a week were more likely to experience health issues. A 2006 study found that babies born to mothers residing in communities with dump sites ranked as being of high hazard, and/or having high hazard contents (e.g. no separation of hazardous wastes) presented increased risks for lower birth weight and shorter gestation period. Taken together, these facts point to a need for improved management of landfill operation.

In rural communities, waste workers often perform multiple program roles such as managers, equipment drivers, mechanics, planners, collectors, community educators, etc. All this is often done under a budget that severely restricts personnel hours, fuel expenses, and maintenance costs. Workers therefore require a solid understanding of exposure pathways, waste properties, behavioral attitudes, and how the various factors and dynamics of a community program can affect one another. These workers of often the community members responsible for reporting, compliance, and determining the waste management approaches that best suit their community so informed decision making is of paramount importance. ENVI F116P aims to provide a knowledge and skills base for rural solid waste operators while maintaining academic rigor by requiring students to: participate in class discussions, complete thorough course activities, develop strategies for managing landfills, and apply course material to real-world landfill operation scenarios. Students must complete several activities that mimic the compliance activities incumbent upon rural Class II and Class III landfill operators. By building student knowledge and ability, this course leaves students with more capacity and resources to manage a waste program that serve small, remote communities.

APPROVALS: Add additional signature lines as needed.						
Jake 27	Date	02/OCT/2014				
Signature, Chair, Program/Department of: Environmental Studies						
Sakmaier	Date	20ct 2014				
Signature, Chair, College/School Curriculum Council for:	RCD					
Cécelia Chambertain For Pete Pinney	Date	10/3/14				
Signature, Dean, College/School of:						
Offerings above the level of approved programs must be approved	ed in adv	vance by the Provost.				
Circulation of December 1997	Date					
Signature of Provost (if above level of approved programs)						
ALL SIGNATURES MUST BE OBTAINED PRIOR TO SUBMISSION TO THE GOVERNANCE OFFICE						
	Date					
Signature, Chair Faculty Senate Review Committee:Curriculum ReviewGAAC						
Core ReviewSADAC						

ADDITIONAL SIGNATURES: (As needed for cross-listing and/or stacking)

Signature, Chair, Program/Department of:	Date
Signature, Chair, College/School Curriculum Council for:	Date
Signature, Dean, College/School of:	Date

## ATTACH COMPLETE SYLLABUS (as part of this application). The guidelines are online:

http://www.uaf.edu/uafgov/faculty-senate/curriculum/course-degree-procedures-/uaf-syllabus-requirements/

The Faculty Senate curriculum committees will review the syllabus to ensure that each of the items listed below are included. If items are missing or unclear, the proposed course (or changes to it) may be <u>denied</u>.

or changes to it) may be defined.	
SYLLABUS CHECKLIST FOR ALL UAF courses  During the first week of class, instructors will distribute a course syllabus. Although modifications may be made to the semester, this document will contain the following information (as applicable to the discipline):	hroughou
<ol> <li>Course information:</li> <li>□Title, □ number, □credits, □prerequisites, □ location, □ meeting time (make sure that contact hours are in line with credits).</li> </ol>	
2. Instructor (and if applicable, Teaching Assistant) information: ☐ Name, ☐ office location, ☐ office hours, ☐ telephone, ☐ email address.	
<ul> <li>3. Course readings/materials:</li> <li>□ Course textbook title, □ author, □ edition/publisher.</li> <li>□ Supplementary readings (indicate whether □ required or □ recommended) and □ any supplies required.</li> </ul>	
<ul> <li>4. Course description:</li> <li>☐ Content of the course and how it fits into the broader curriculum;</li> <li>☐ Expected proficiencies required to undertake the course, if applicable.</li> <li>☐ Inclusion of catalog description is strongly recommended, and</li> <li>☐ Description in syllabus must be consistent with catalog course description.</li> </ul>	
5. ☐ Course Goals (general), and (see #6)	
6. ☐ Student Learning Outcomes (more specific)	
7. Instructional methods: Describe the teaching techniques (eg: lecture, case study, small group discussion, private instruction, studinstruction, values clarification, games, journal writing, use of Blackboard, audio/video conferencing, etc.).	oib
8. Course calendar:  A schedule of class topics and assignments must be included. Be specific so that it is clear that the instruction thought this through and will not be making it up on the fly (e.g. it is not adequate to say "lab". Instead, give e title that describes its content). You may call the outline Tentative or Work in Progress to allow for modification the semester.	ach lab a

## 9. Course policies:

☐ Specify course rules, including your policies on attendance, tardiness, class participation, make-up exams, and plagiarism/academic integrity.

## 10. Evaluation:

□ Specify how students will be evaluated, □ what factors will be included, □ their relative value, and □ how they will be tabulated into grades (on a curve, absolute scores, etc.) □ Publicize UAF regulations with regard to the grades of "C" and below <u>as applicable</u> to this course. (Not required in the syllabus, but may be a convenient way to publicize this.) Faculty Senate Meeting #171:

http://www.uaf.edu/uafgov/faculty-senate/meetings/2010-2011-meetings/#171

## 11. Support Services:

☐ Describe the student support services such as tutoring (local and/or regional) appropriate for the course.

## 12. Disabilities Services: Note that the phone# and location have been updated.

The Office of Disability Services implements the Americans with Disabilities Act (ADA), and ensures that UAF students have equal access to the campus and course materials.

☐ State that you will work with the Office of Disabilities Services (208 WHITAKER BLDG, 474-5655)to provide reasonable accommodation to students with disabilities.

8/1/2012

# University of Alaska Fairbanks Bristol Bay Campus

Course Syllabus
Spring or Fall

Course Title: Rural Alaska Landfill Operator (RALO)

Dept. & Num: ENVI 116P

Credits:

Grading Pass/Fail
Prerequisites: none

Dates: various

Days - times: Wednesday through Friday
Location: Invited location in Alaska

Instructor: Ted Jacobson
Position: Adjunct Instructor
Phone: (907) 770-9060

Fax:

Term:

Email: tjacobson@ruralcap.com
Office Hours Available by appointment

Text: Course related handouts

## **Course Description:**

Covers best practices in managing rural landfills in compliance with State of Alaska regulations and guidelines with an emphasis on operator and public safety. This course is designed to train operators for rural Alaska Class II and Class III landfills and a passing grade results in formal recognition by the Solid Waste Association of North America-Alaska (SWANA-Alaska). *Graded pass/fail* (1+0).

#### Goals:

The goal of the course is to train students in safe operation of a rural Alaska landfill and teach techniques to minimize the risk of solid waste disposal to the public and surrounding environment. The course will cover: best practices, decision-making skills and guidelines, operation of heavy equipment commonly used at rural landfills, and maintenance of facility infrastructure. Students will participate in group activities and discussions while learning about landfill operation issues and potential solutions.

## Learning Objectives:

Upon completion of this course, the student will be able to:

- Describe and perform the daily, monthly, and annual tasks for safe operation of a landfill facility in compliance with State of Alaska Class II/III regulations.
- Visually inspect for landfill facility problems and understand the steps to correct them.
- Identify deficits in rural landfill operational practices and know how to address them.
- Plan for improved practical integration of resource recovery with landfill operation.
- Earn a SWANA-Alaska Certification for Landfill Operation.

## **Instructional Methods**

- homework (readings and summary assignments completed prior to first class)
- lectures and presentations
- group activities

discussions

## Course Readings:

All class materials will be provided to students in electronic format prior to the class. Please complete the course readings and summary assignments prior to the first day of class.

## Reading #1- Solid Waste in Rural Alaska

- Tips for Solid Waste Management in Rural Alaska (<a href="https://dec.alaska.gov/eh/docs/sw/Monthly%20Visual%20Monitoring%20Template%20">https://dec.alaska.gov/eh/docs/sw/Monthly%20Visual%20Monitoring%20Template%20</a>
   2014.dotx)
- Alaska DEC Rural Alaska Fact Sheets
- (http://dec.alaska.gov/eh/sw/RuralAK.htm)
- Summary assignment #1
  - o List and describe the required components of a landfill in rural Alaska.

## Reading #2- Permitting your Landfill

- Class III Landfill Permit Application
   (https://dec.alaska.gov/eh/docs/sw/PermitApps/Class%20III%20Application.pdf)
- Class III Landfill Renewal Application (https://dec.alaska.gov/eh/docs/sw/PermitApps/Class%20III%20Renewal.pdf)
- Class III Landfill Operation Plan Template (<a href="https://dec.alaska.gov/eh/docs/sw/PermitApps/Class%20III%20Ops%20Plan.pdf">https://dec.alaska.gov/eh/docs/sw/PermitApps/Class%20III%20Ops%20Plan.pdf</a>)
- Landfill Owner Consent Form (<a href="https://dec.alaska.gov/eh/docs/sw/PermitApps/Landowner%20Consent%20Form.pdf">https://dec.alaska.gov/eh/docs/sw/PermitApps/Landowner%20Consent%20Form.pdf</a>)
- Monthly Visual Monitoring Form (Landfill Owner Consent Form (<a href="https://dec.alaska.gov/eh/docs/sw/Monthly%20Visual%20Monitoring%20Template%202">https://dec.alaska.gov/eh/docs/sw/Monthly%20Visual%20Monitoring%20Template%202</a> 014.dotx)
- Summary assignment #2
  - O Describe the advantages/disadvantages of the different ways waste is collected and delivered to rural landfills.
  - o When is a landfill full? What are some ways to extend the life of a landfill?

## Reading #3- Rural Landfill Considerations

- Open Burning in Rural Alaska (https://dec.alaska.gov/eh/docs/sw/Open Burning Rural AK.pdf)
- Construction and Demolition Debris
   (https://dec.alaska.gov/eh/docs/sw/C&D Debris Rural AK.pdf)
- Marine Debris
   (https://dec.alaska.gov/eh/docs/sw/Marine Debris in AK.pdf)
- Summary assignment #3
  - What are the most important safety procedures that landfill operators need to comply with?
  - When managing a waste stream to minimize the risks to rural residents, how would a community use burying vs burning waste?

#### **Course Schedule**

Date / Time	Topic	Type of Instruction	Credit Hours
Wednesday			
12:00 pm	Introduction to Landfills	Classroom	1.5

	Dumma to Landfills		
	Dumps to Landfills (Practices and Circumstances that make a dump become a landfill) *Assignment 1: List and describe the required components of a landfill in rural Alaska.		
1:30 pm	Administrator/Operator Roles in the Landfill Landfill Classification	Classroom	1.5
3:00	Break		
	Operator Personal Protective Equipment	Classroom	1.5
3:15pm	Landfill Equipment	Ciassiconi	1.5
4:45 pm	Discussion and closing statements	Classroom	0
Thursday	2 is a sister and crossing statements	Classicom	0
8:00 am	So you Need a Landfill, Huh? Waste Collection Programs: Types and Integration with Landfill Operation *Assignment 2: Describe the advantages/disadvantages of the different ways waste is collected and delivered to rural landfills. When is a landfill full? What are some ways to extend the life of a landfill?	Classroom	1.5
9:30 am	Break		
9:45 am	Waste Collection Programs: Types and Integration with Landfill Operation Landfill Cover: How's and Why's	Classroom	1.5
11:15 am	Lunch		
1:00 pm	Consolidation and Compaction	Classroom	1.5
2:30 pm	Break	-	
2:45 pm	Landfill Tour, Matsu Valley	Field trip	1.5
4:45 pm	Discussion and closing statements	Classroom	0
Friday			
8:00 am	ADEC Landfill Inspection Recordkeeping	Classroom	1.5
	Public Safety	Classroom	1.5
9:45 am	Burning Waste  *Assignment 3: What are the most important safety procedures that landfill operators need to comply with? When managing a waste stream to minimize the risks to rural residents, how would a community use burying vs burning waste?		
11:15 am	Lunch		
1:00 pm	Funding Water and Snow Removal Landfill Resource Recovery	Classroom	1.5
	Break	- "	
2:30 pm			
2:30 pm 2:45 pm	Backhaul/Recycling Education and Training Contacts	Classroom	1.5
	Education and Training	Classroom	1.5

## **Course Policies:**

- Students will conduct themselves honestly and responsibly, and respect the rights of others
- Attendance is mandatory.
- Students must follow the rules and directions of any sponsoring business.

The instructor reserves the right to amend the course outline as needed to meet student educational needs.

## **Evaluation and Grading Policy:**

This course is a pass fail course. Students must receive greater than 70% in order to pass. Grades will be determined based on the percentages listed below:

- 10% classroom participation Students will be expected to: attend every class, answer questions, participate in demonstrations, and contribute to course discussions.
- 45% summary assignments (15% each) A summary assignment for each reading must be completed prior to the first class. Students are expected to answer each of the summary assignment questions based on reading material and use examples from the reading to support those answers.
- 45% final exam The final exam will be made up of multiple choice questions to test general knowledge from the course and readings. A reflection section will require students to apply their own experience to the course content.

Grades will be assigned based upon the following rubric:

	Excellent	Proficient	Below Proficient
Participation	Student attends all	Student attends most	Student misses three
(10 points)	classes and arrives on	classes and mostly	or more classes or is
	time. Student adds	arrives on time.	mostly late. Student
	ideas to class	Student sometimes	rarely participates in
	discussion. Student	adds ideas to class	class discussion.
	is on task during	discussion. Student	Student is off task
	assignments.	is mostly on task	during assignments.
	(10-9)	during assignments. (8-7)	(6-0)
Summary Assignments	Student completes	Student completes	Student summary
(15 points each)	entire summary	entire summary	assignment is
	assignment. Student	assignment. Student	incomplete. Student
	adds their ideas based	shows evidence of	lacks knowledge of
	upon assigned readings. Student applies their	completion of assigned readings and has	assignment material. (10-0)
	own knowledge and	knowledge of	(10-0)
	experience to	assignment material.	
	assignment material.	(13-11)	
	(15-14)		
Final Exam	Answers to all	Answers to at least	Answers to less than
(45 points)	multiple choice	70% of multiple	70% of multiple
	questions are correct.	choice questions are	choice questions are
	(45)	correct.	correct.
	Reflection clearly	(44-32)	(44-32)
	and concisely applies	Reflection applies	Reflection is
	course content and	course content and	incomplete or does
	readings to student's	readings to student's	not apply to course
	home setting.	home setting.	content and readings.
10	(45-40)	(39-30)	(29-0)

## **Student Support Disability Services:**

University of Alaska Fairbanks Bristol Bay Campus Student Services at: PO Box 1070
Dillingham, Alaska 99576
907-842-5109, 800-478-5109, Fax: 907-842-5692

Support and Tutoring is available to eligible students through UAF Student Support Services or Bristol Bay Campus. Contact UAF via the Internet at http://www.uaf.edu/sssp/ or BBC by calling the toll free number at 1.800.478.5109.

Library services are available at http://www.uaf.edu/library/ or call the toll free library information number at 1.800.478.5348 and ask for the off-campus librarian.

UAF has a Disability Services office that operates in conjunction with the College of Rural and Community Development (CRCD) campuses and UAF's Center for Distance Education (CDE). Disability Services provides academic accommodations to enrolled students who are identified as being eligible for these services and insures that UAF students have equal access to the campus and course materials. If you have specific physical, psychiatric or learning disabilities and require reasonable accommodations, please let the instructor know as soon as possible so that your learning needs may be appropriately met. You will need to provide documentation of your disability to Disability Services and request a letter of accommodation.

Disability Services is located in room **208 of the Whitaker Building** on the UAF Fairbanks Campus and can be reached weekdays between 8:00 am and 5:00 pm at:

Phone - (907) 474-5655

TTY - (907) 474-1827

Email - uaf-disabilityservices@alaska.edu

## Federal reporting obligations under Title IX:

University of Alaska Board of Regents have clearly stated in BOR Policy that discrimination, harassment and violence will not be tolerated on any campus of the University of Alaska If you believe you are experiencing discrimination or any form of harassment including sexual harassment/misconduct/assault, you are encouraged to report that behavior. If you report to a faculty member or any university employee, they must notify the UAF Title IX Coordinator about the basic facts of the incident. Your choices for reporting include:

- 1) You may access confidential counseling by contacting the UAF Health & Counseling Center at 474-7043;
- 2) You may access support and file a Title IX report by contacting the UAF Title IX Coordinator at 474-6600;
- 3) You may file a criminal complaint by contacting the University Police Department at 474-7721.