

Crystal Frank < cafrank@alaska.edu>

Curriculum Approved and Signature pages

Linda Curda < Ircurda@alaska.edu>

Mon, Oct 3, 2011 at 10:37 AM

To: Pete Pinney <pppinney@alaska.edu>, Crystal Frank <cafrank@alaska.edu>, Jennifer Carroll <jlcarroll@alaska.edu>, "Steven R. Becker, CEP" <srbecker@alaska.edu>, Diane Erickson <dmerickson@alaska.edu>, Cynthia Hardy <clhardy@alaska.edu>, Christa Bartlett <clbartlett@alaska.edu>, Cathleen Winfree <cmwinfree@alaska.edu>

The following Curriculum materials are approved by the CRCD Academic Council.

CTT - AAS Format 5

CTT 250 - Format 1 and syllabus

DEVS 105 - Format 2 and syllabus

HLTH 207 - Format 2A

TM 140 - Format 1 and syllabus

TM 141 - Format 1 and syllabus

TM 142 - Format 1 and syllabus

Please see attached signature pages - some of these pages need Dept Chair/Program Head signatures before going to the Dean.

If you have any questions, please contact me.

Thank you.

Linda Curda, CRCD Academic Council Chair

786-1630



Revision 9/201/11 FORMAT 1 CF

Submit original with signatures + 1 copy + electronic copy to Faculty Senate (Box 7500). See http://www.uaf.edu/uafgov/faculty-senate/curriculum/course-degree-procedures-/ for a complete description of the rules governing curriculum & course changes.

Department	Indigenous, Tribal Progr		nunity,	&		Colleg	e/School				CRCD				
Prepared by	Steve Becke	r, CEI)			Phone			907-474-509						
Email Contact	srbecker@a	laska.	<u>edu</u>			Faculty Contact			Steve Becker, C						
1. ACTION D	ESIRED (CHECK O	VE):	Tı	ial C	Course			Ne	w Course	X					
2. COURSE II	DENTIFICATIO	V:	Dept		TM		Course #	140	No. c	of Credits	1				
2 1 1	r/lower division mber of credits:		oductory crience re			ourse. R	Requires ba	sic comput	er literacy.	No prior Gl	S or GPS				
B. PROPOSEL	O COURSE TITL	E:	1144			Intro	duction t	o Geospa	tial Data						
1. To be CRO. YES/NO (Requires apr	SS LISTED?	nents and	N I deans in	volve		Dept:	d of form fo		ourse #						
6. To be STAC YES/NO			N If yes, Dept. Course #												
s. FREQUEN	CY OF OFFERIN	G:			d Warra Summer (bered Year d Warrants	s, or Odd-nu	mbered Yea	rs) — or As				
r. SEMESTER pproved)	R & YEAR OF FIR	ST OF	FERINC	F(if		Sp	ring 2012								
	nours may not be come college or school's custommittee. ORMAT:	rriculum		urth			ourse com			weeks must l	es to full				
OTHER FO	RMAT (specify)	On-si	ite intens	ive t	taught o	ver thr	ee days								
Mode of deliv	very (specify trips, labs, etc)	Lecti	ıre, inclu	ıding	g instru	ctor-sup	ervised co	mputer e	exercises						
lecture, neid	HOURS PER W	EEK:		18	LECT hours/			LAB hours /v	AB PRACTICUM hours/week						
9. CONTACT	lits are based on cont														

10. COMPLETE CATALOG DESCRIPTION including dept., number, title and credits (50 words or less, if possible):

TM F140 Introduction to Geospatial Data (1+0) An introductory survey of tools for the gathering and mapping of both qualitative and quantitative geospatial data for the natural and social sciences. Students will get direct experience with basic tools and techniques for gathering geospatial data, and will incorporate their data into an existing geospatial database. Prerequisites: Basic computer literacy equivalent to CIOS 100 or permission of instructor.

	H = Humanities	ach on separate sh		S = Social S	ciences		
	Will this course be used for the baccalaureate cor		ment		YES	NO	X
	IF YES, check which core O = Oral Intensive, For		ould be used to fulfi W = Writing Intens		N	atural Science, Forma	t 8
2.	COURSE REPEATABILIT Is this course repeatable for		YES		NO X		
	Justification: Indicate why (for example, the course for						
	How many times may the			-		Т	IMES
	If the course can be repeat that may be earned for thi		redit, what is the m	aximum numb	er of credit ho		REDIT
	CRADING SYSTEM: Spec	PASS/FAIL:					
	TRICTIONS ON ENROLL	The state of the s	literacy equivalen	t to CIOS 10	n or narmicci	on of instructor	
4.			fore the student is a				
15.	SPECIAL RESTRICTION	S.	None				
	ONDITIONS	-,			- All and		
7. 1	Has a memo been submitted Yes/No PREVIOUS HISTORY Has the course been offered as Yes/No			VCAS for fee	approval?	In Proce	ess
				7 000-000	They seek where		
	If yes, give semester, year, cour	se #, etc.:	TM 193 – Sur	nmer 2011			
18. 1	If yes, give semester, year, cour ESTIMATED IMPACT WHAT IMPACT, IF ANY,				SPACE, FAC	ULTY, ETC.	
	ESTIMATED IMPACT	WILL THIS HAN t by current TM dent books, edu	VE ON BUDGET, I I faculty or approcational software	FACILITIES/ oved adjunce e licenses, ins	t instructors structor trav	. Costs associate	
	ESTIMATED IMPACT WHAT IMPACT, IF ANY, Course would be taugh offering the course (stu	WILL THIS HAD t by current TM dent books, edu vered through t	YE ON BUDGET, I I faculty or approcational software uition and the pr	FACILITIES/ oved adjunc e licenses, ins oposed cour	t instructors structor trav se fee.	. Costs associate vel & shipping of	mobil
	ESTIMATED IMPACT WHAT IMPACT, IF ANY, Course would be taught offering the course (stue GIS lab) would be recor LIBRARY COLLECTIONS Have you contacted the library of library/media collections, equip	WILL THIS HAD t by current TM dent books, edu vered through t collection developme ment, and services a	YE ON BUDGET, I I faculty or approcational software uition and the pr	FACILITIES/ oved adjunce licenses, instance oposed cour alaska.edu, 474- sed course? If s	t instructors structor trav se fee. -6695) with reg o, give date of c	cel & shipping of sales and to the adequacy contact and resolution	mobil
19.	ESTIMATED IMPACT WHAT IMPACT, IF ANY, Course would be taught offering the course (studies of the course (studies) would be record LIBRARY COLLECTIONS Have you contacted the library of library/media collections, equipaling the course of the	will be affected	TE ON BUDGET, I	FACILITIES/ oved adjunc e licenses, ins oposed cour alaska.edu, 474- sed course? If s	t instructors structor trav se fee. -6695) with reg o, give date of c	cel & shipping of sales and to the adequacy contact and resolution	mobil

21. POSITIVE AND NEGATIVE IMPACTS

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

FORMAT 1- TM HO

Course is likely to increase student enrollment in other Tribal Management courses and the Tribal Management Program. By offering this training in rural Alaska, this and associated courses may encourage additional students to continue GIS training provided by the UAF SNRAS Department of Geography.

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.

Introductory training in Geographic Information Systems (GIS) has been repeatedly requested by Tribal and municipal governments in rural Alaska. Tribal governments get ESRI ArcGIS software free of charge through a distribution agreement between ESRI and the Bureau of Indian Affairs (BIA). Many Tribal governments in rural Alaska have received the software through this agreement, but few have staff capable of operating the software. Although free training is offered to Tribes through the BIA, this training occurs in the Lower 48 (at high travel costs) and is not tailored to topics and conditions in rural Alaska. Training opportunities in GIS through the private sector is limited and expensive, and most Tribes cannot afford the time or expense to send staff to UAF to take semester-based courses in GIS.

This course is intended to be the first in a series of on-site GIS courses targeting projects and applications in rural Alaska. These courses are not intended as a substitute for the GIS courses offered through the UAF SNRAS Department of Geography, but rather to complement them by providing lower division, skills-based technical training for students in rural Alaska. TM students who desire professional-level training would be advised to continue study within UAF SNRAS.

A	PPROVALS: Note: See attached em	vail fr	om Jennie Carroll,	10/3/11 CF
	Signature, Chair, Program/Department of:	Date		
	Signature, Chair, College/School Curriculum Council for:	Date	10 2 11	
	Petr Promoter CRCD Signature, Dean, College/School of: CRCD	Date	10/3/11	
	Signature of Provost (if applicable) Offerings above the level of approved programs must be approved in a	Date dvance b	y the Provost.	
	ALL SIGNATURES MUST BE OBTAINED PRIOR TO SUBMISSION			
	Signature, Chair, UAF Faculty Senate Curriculum Review Committee	Date		



Crystal Frank < cafrank@alaska.edu>

Signature status for Format 1 TM 140 & 141

Jennifer Carroll < jlcarroll@alaska.edu>

To: Crystal Frank <cafrank@alaska.edu>

Mon, Oct 3, 2011 at 2:26 PM

Hi Crystal, yes, I approve both TM 140 and TM 141. If you need re-sign I can print them out here. Otherwise just go ahead and use the e-mail to document my approval. Thanks, Jennie

Jennifer Carroll
Department Chair, Indigenous, Community and Tribal Programs
Interior-Aleutians Campus
[Quoted text hidden]

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

University of Alaska Fairbanks

College of Rural and Community Development Department of Indigenous, Community, and Tribal Programs Tribal Management Program

Interior – Aleutians Campus Harper Building, P.O. Box 756720 Fairbanks, Alaska 99775-6720

Tribal Management – TM 140 Introduction to Geospatial Data

1 cr. (1+0)

SEMESTER 20XX Course Syllabus

Course Meeting Times and Location:

DATES, 20XX

Monday - Wednesday, 9:00 AM - 4:00 PM

VENUE, VILLAGE, Alaska

Prerequisites: Basic computer literacy equivalent to CIOS 100 or permission of instructor.

Instructor: Steve Becker, CEP

Assistant Professor of Tribal Management (Natural Resources & GIS)

122 Harper Building, Fairbanks, Alaska 99775-6720

907-474-5096 (office) * 888-846-2422 (toll free) * 907-474-5208 (fax)

steve.becker@alaska.edu

Office Hours: The instructor will also be available for ½ hour before and after each session in order to answer

questions and review work on an individual basis.

Text: Introduction to Geospatial Data course pack, latest edition (provided by instructor)

Garmin Oregon 500t Owner's Manual (provided by instructor)

ArcGIS Educational/Evaluation License (provided by instructor)

ANKN. 2000. *Guidelines for Respecting Cultural Knowledge*. Alaska Native Knowledge Network. Available for download at http://ankn.uaf.edu/publications/knowledge.html

Course Description: An introductory survey of tools for the gathering and mapping of both qualitative and quantitative geospatial data for the natural and social sciences. Students will get direct experience with basic tools and techniques for gathering geospatial data, and will incorporate their data into an existing geospatial database.

Course Goals: Students will be introduced to basic field methods for the collection of quantitative and qualitative geospatial data, and will discuss the relative merits and limitations of each. Students will gain hands-on experience in collecting geospatial data and incorporating them into an existing geospatial database. This course is intended to provide a brief introduction to the capabilities of Geographic Information System (GIS) and Global Positioning System (GPS) technologies in community research. As part of the course, students will receive a 1-year Educational/Evaluation License for ArcGIS software to continue practicing skills obtained in the course.

TM 140: Introduction to Geospatial Data **SEMESTER** 20XX Syllabus

Student Learning Outcomes:

On completion of the course the student should be able to:

Studen	ts will be able to:	Evaluated by:
1.	Identify qualitative and quantitative data.	Group Discussions, Homework #1
2.	Present the merits, assumptions, and limitations of different data types.	Group Discussions, Homework #1
3.	Define some of the common terms and jargon used in working with geospatial data	Group Discussions, Homework #2
4.	Determine the appropriate tools for gathering different types of data.	Group Discussions, Homework #3
5.	Demonstrate the use of data gathering tools in the field.	Group Discussions, Homework #4
6.	Gather, compile, and prepare data for entry into format for input into geospatial database.	Homework #5, Applied Group Project
7.	Input environmental data into an existing geospatial database	Applied Group Project
8.	Prepare and present data graphically and geospatially.	Applied Group Project

Instructional Methods: Instructional methods will include readings, lecture, group discussions, hands-on exercises using Geographic Information System (GIS) software, and homework conducted primarily in a field setting.

Course Policies: Attendance will be taken at the beginning of each class session. Students should arrive early so that class may begin promptly. Active participation in group discussions is expected. Homework assigned is due at the beginning of the class period indicated. Late homework will not be accepted, however exceptions may be made for medical or family emergencies.

Evaluation and Grading: This is a letter grade course. Grades will be assigned based on the percentage of the total points possible that a student earned for the course in accordance with the following:

% of	Grade
Total	
100 - 90	A
89 – 80	В
79 – 70	С
69 – 60	D
< 60	F

Total points possible for the course will be assigned and weighted based on the following:

Participation (10%): Group discussions, in-class exercises, the applied group project, and overall class dynamics are an essential part of the learning experience for this course. Students are expected to actively participate in group discussions, exercises, and project in a variety of roles.

Homework (30%): Five (5) homework activities will be assigned. These activities are designed to reinforce key points from the course, and will be on the following topics:

- Homework #1: Types of Data
- Homework #2: Definitions and Jargon
- Homework #3: Appropriate Tools for Different Data
- Homework #4: Collection of Field Data
- Homework #5: Compile Field Data for Data Entry

TM 140: Introduction to Geospatial Data **SEMESTER** 20XX Syllabus

In-Class Exercises (30%): A series of exercises will be conducted during class sessions. The intent of these exercises is to familiarize the student with tools for the collection of geospatial data and the basic use of Geographic Information System (GIS) software.

Applied Group Project (30%): As a group project, students will input the data collected during the field laboratory activities into an existing geospatial database, and will prepare and present a summary report of the data in both graphic and geospatial formats.

TOTAL = 100%

Student Support Services: The instructor is available upon appointment for additional assistance outside session hours, and will assist in connecting students with on-campus and off-campus support resources as needed.

The University has many student support programs. If you need assistance please contact any of the following service programs or departments.

UAOnline: http://uaonline.alaska.edu/

UAOnline is your resource for transcripts, accounts and other personal information.

Rural Student Services: http://www.uaf.edu/ruralss/

Rural Student Services (RSS) is an academic advising department with over 35 years of experience in working with students from all over the state of Alaska. They assist students in achieving student success by linking them to current information pertinent to their education, lifestyle, and goals. RSS is known for its welcoming and friendly environment. They assist students with:

- Academic Requirements
- Registration for Classes
- Finding Financial Aid
- Explaining Housing Options
- Declaring a Major
- Career Exploration

You can contact RSS by mail at: P.O. Box 756320, Fairbanks, AK 99775-6320, by phone at 1-888-478-1452 (Toll Free within Alaska) or (907) 474-7871, or by email at fyrss@uaf.edu

Math Hot Line

Contact UAF's toll-free Math Hotline for problem solving and math help. Call 866-823-6284 (1-866-UAF-MATH) during fall and spring semesters.

Writing Center: http://www.alaska.edu/english/studentresources/writing/

The Writing Center is a student-staffed, student-oriented service of the English Department.

801 Gruening Bldg., P.O. Box 755720 Fairbanks, Alaska 99775-5720

Phone: (907) 474-5314 Fax: 1-800-478-5246

The UAF Writing Center and Computer Lab offers free writing tutoring to any student in any subject via telephone and fax or over the Internet. Students can call 907-474-5314 for information on how to fax a paper and have it tutored over the telephone, or engage in an interactive Internet session. Both services are free.

Library Services for Off Campus Students: http://library.uaf.edu/offcampus

Off-Campus Library Services is a unit set up to serve rural UAF students and faculty who do not have access to appropriate information resources in their town or village. We work in support of The College of Rural &

TM 140: Introduction to Geospatial Data **SEMESTER** 20XX Syllabus

Community Development and The Center for Distance Education and Independent Learning. We can supply your information needs for the courses you are taking. For example, if a research paper is required in the teleconference or correspondence course that you are taking, you can contact us, explain your information need, and we will send library materials to you so that you can write your paper. Contact us at:

Off-Campus Services, Elmer E. Rasmuson Library 310 Tanana Loop, PO Box 756800 Fairbanks, Alaska USA 99775-6800

Phone: 1-800-478-5348 Email: fyddl@uaf.edu

For more off campus help go to:

http://www.uaf.edu/library/instruction/ls101/other/Distance Resources.html

Disability Services: The UAF Office of Disability Services implements the Americans with Disabilities Act (ADA), and insures that UAF students have equal access to the campus and course materials. Your instructor will work with the Office of Disability Services (203 WHIT, 907-474-7043) to provide reasonable accommodation to students with disabilities.

UAF Disability Services for Distance Students

- a) UAF has a Disability Services office that operates in conjunction with the College of Rural Alaska (CRA) campuses and UAF Center for Distance Education (CDE). Disability Services, a part of UAF Center for Health and Counseling, provides academic accommodations to enrolled students who are identified as being eligible for these services.
- b) If you believe you are eligible, please visit http://www.uaf.edu/chc/disability.html on the web or contact a student affairs staff person at your nearest local campus. You can also contact Disability Services on the Fairbanks Campus at (907) 474-7043, fydso@uaf.edu

University of Alaska Fairbanks

College of Rural and Community Development Department of Indigenous, Community, and Tribal Programs Tribal Management Program

Interior – Aleutians Campus Harper Building, P.O. Box 756720 Fairbanks, Alaska 99775-6720

TM 140 – Introduction to Geospatial Data SEMESTER 20XX Course Schedule

			Day 3	8		-112112			Day 2							,	Day 1	Date
		17.55	•						•					•			•	
	Pack	Course	TM 140					Course	TM 140				2000	AZKZ	Manual	Owner's	GPS	Reading
• •		•	•			• •		•	•	•	•	•			•	•	•	
Finalize Group Projects (cont'd) Group Presentations to Elders and Instructors	LUNCH 12:00 – 1:00	Finalize Group Projects	Techniques for Presenting Geospatial Data			Transfer of Field Data into GIS	LUNCH 12:00 – 1:00	Working with Geospatial Data	Introduction to Geographic Information Systems (GIS)	Cultural and Intellectual Property Rights	The Importance of Protocols and Procedures	Other Common Data Gathering Tools	LUNCH 12:00 - 1:00		Basics of Geolocation and GPS	What is Geospatial Data?	Introduction and Syllabus Review	Chapter/Topic
	Bars, and Legends	North Arrows, Scale	 Templates and Layouts 	Creating New Layers from Generated Data	 Importing Generated Data 	Deleting Layers	Data Adding Modifying and	• Locating Pre-existing	Basic GIS Navigation,					1	Data Gathering Tools	Use of Other Common	 GPS Operation Exercise 	Exercises
			•					•	•			•		•		•	•	
		Presentation Due	Applied Group Projects &					Enter Field Data	Homework #4 Continued		& Geospatial Data	Homework #4: Collect Field	Tools for Different Data Types	Homework #3: Appropriate	and Jargon	Homework #2: Definitions	Homework #1: Types of Data	Assignment