FO…

…af.edu/uafgov/faculty… for a complete description of the rules governing curriculum & course changes.

TRIAL COURSE OR NEW COURSE PROPOSAL

SUBMITTED BY:

	Physics	College	

Prepared by			
[illegible] Szabo…	Phone	474-6…	
uaf-physics…alaska.edu	Faculty Contact	Curt Szuberla	

…(CHECK ONE): Trial Course | New Course | X

2. COURSE…

…ITLE: …Inverse Problems and Parameter Estimation

4. To be CROSS LISTED?

How will the two co…

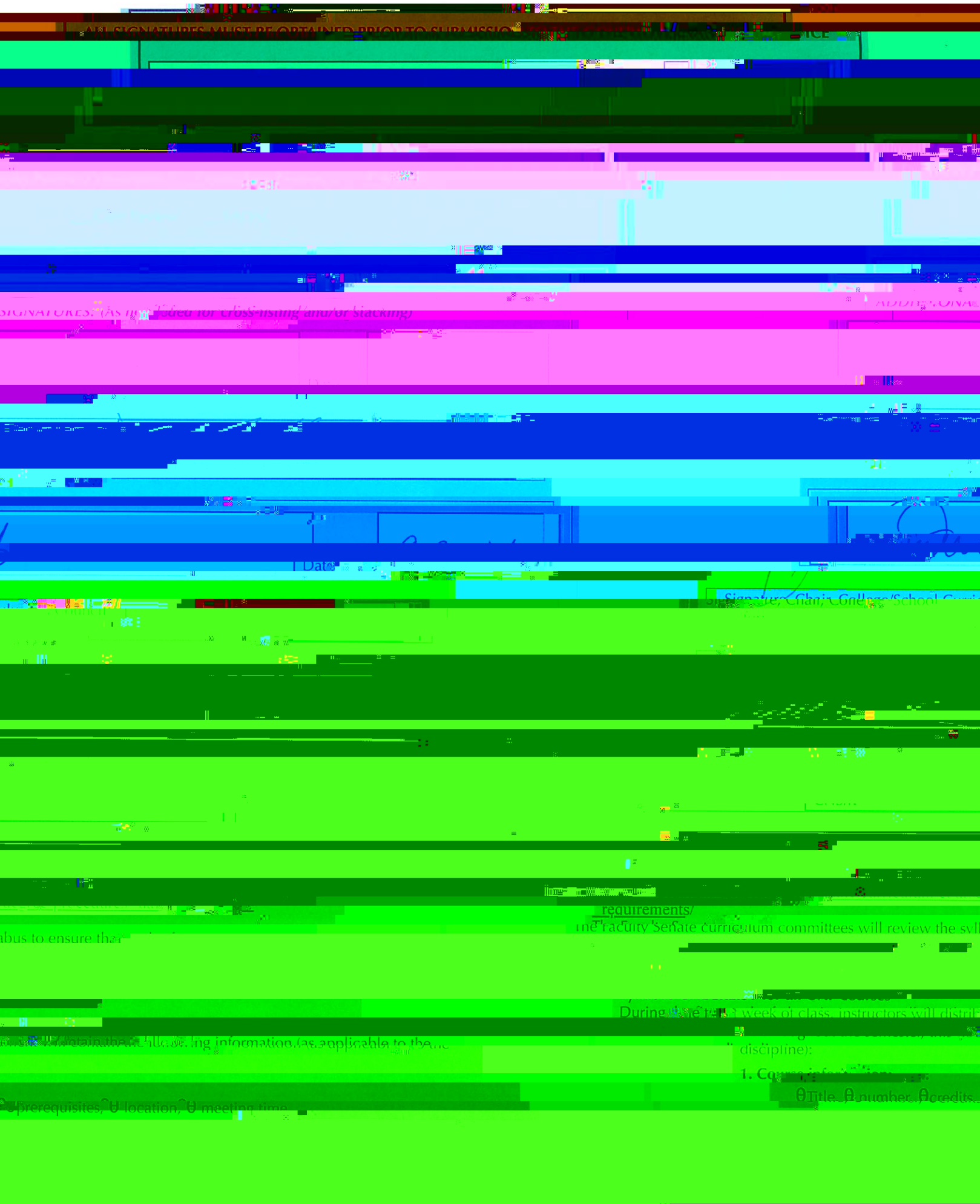
…course applications are reviewed by the … committee…

…offered? 2. Are undergraduates being overtaxed? 3. Are adequate students taking the course, typically … committees are looking out for the interest of the … both … do. More info online – see URL at top of this page.

17. PREVIOUS HISTORY

Has the course been offered as special topics

DR. PAUL LAYER
CNSM



(make ... sure that contact hours ... in line with credits).

... (and if applicable, Tea... Assistant) information

... office location, θ office hours, θ telephone ...

... course textbook(s) title, θ author, θ edition/publisher.

θ Supplementary ... required ... recommended and

θ any supplies required.

4. Course description:

θ ... content of the course and how it fits into the broader curriculum;

θ ... course, if applicable.

... description in syllabus must be consistent with catalog course description.

5. θ Course Goals (general), and (see #6)

6. θ ... Student Learning Outcomes ...

7. Instructional methods:

θ Describe the teaching te... studio instruction, values clarification, ...es, journal w...

9. Course policies:

θ Specify course rules, including your policies on attendance ... exams, and plagiarism/academic integrity.

10. Evaluation:

θ Specify how students will be evaluated, θ what fa... how they will be tabulated into grades (on a curve, absolute scores, etc.) θ ... with

... Office of Disability Services implements the Americans with Disabilities Act (ADA) ...

UNIVERSITY OF

QUICK REFERENCE: Section 8 contains the calendar of topics and deadlines.

Last compiled: May 2, 2013

1. **Course information.**

PHYS [redacted] F627 Inverse Problems and Parameter Estimation 3 credits Spring 2013

Meeting times:	Tuesday and Thursday, 11:30–13:00
Meeting location:	301N Elvey (Geophysical Institute)
Prerequisites:	MATH 202 (Calculus III) and MATH 314 (Linear Algebra); or permission of instructor

2. **Instructor information.**

Instructor:	**Carl Tape**
Office:	413D Elvey (Geophysical Institute)
Email:	carltape@gi.alaska.edu
Phone:	(907) 474-5456
Office hours:	Wednesday, 10:00–11:00, or by appointment

3. **Course materials.**

(a) **Textbooks.** The required (R) and supplemental (S) textbooks are (see "References" at the

Catalog description: A forward problem uses a model to make predictions; an inverse problem uses

observations to infer properties of an unknown physical model. One example of an inverse problem

8. **Course calendar (tentative).**

Day	Date	Topic	Reading Due†	Homework Due	Homework Assigned
Thurs	Jan-17	Overview of inverse problems	A1	—	PS-1
Tues	Jan-22	Review of linear algebra	AA		

9. **Course policies.**

(a) **Attendance**: All students are expected to attend and participate in all classes.

(b) **Tardiness**: Students are expected to arrive in class prior to the start of each class. If a student

[redacted]

the class.

(c) **Participation and preparation**: Students are expected to come to class with assigned readings

10. **Evaluation.**

(a) Grading is based on:

5%	Attendance and participation
70%	Homework Assignments
25%	Individual Final Project

(b) Overall course grades are based on the following criteria:

A	$x \geq 93$	excellent performance:
A–	$90 \leq x < 93$	student demonstrates deep understanding of the subject
B+	$87 \leq x < 90$	strong performance:
B	$83 \leq x < 87$	student demonstrates strong understanding of the subject