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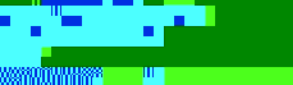
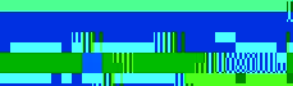
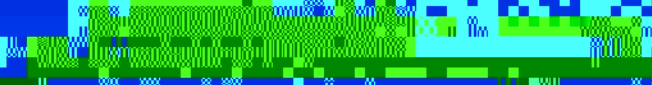
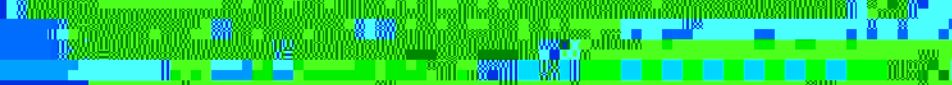
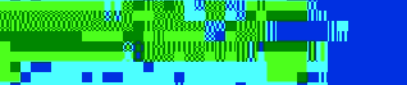
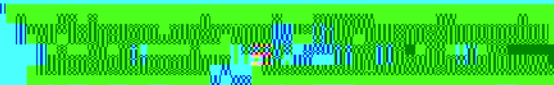
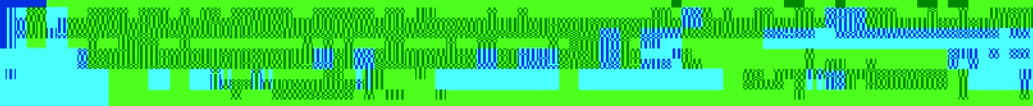
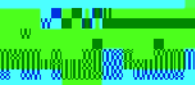
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F694 is trial course number



RESTRICTIONS ON ENROLLMENT (if any)

15. SPECIAL RESTRICTIONS, CONDITIONS

1. The program is subject to the following special restrictions and conditions:

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13. The program is subject to the following special restrictions and conditions:

14. The program is subject to the following special restrictions and conditions:

15. The program is subject to the following special restrictions and conditions:

IMPACTS ON PROGRAMS/DEPTS
Which program(s) will be affected by this proposed action?
Include information on the program(s) affected.

Which Program/Department(s) contacted (e.g. email, memo)?
Include information on the program(s) contacted.

Which programs in the Dept. of Geology are affected by the proposed action?
Include information on the program(s) affected.

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Syllabus for SNOW & SNOW COVER - GEOS 692 (3 credits)

Prerequisites: Graduate standing or permission of instructor

Class: [REDACTED] Fall 2013, [REDACTED] [REDACTED] 2-hour class each Tuesday and Thursday

Location: TBA

[REDACTED] [REDACTED] [REDACTED] [REDACTED] WBBB 104C

Matthew.Sturm@gi.alaska.edu
phone: 474 - 5257. In urgent cases you can also reach me at my home
telephone number: 457-1898.

Office hours: ad hoc / by appointment

Course content

There is single textbook for this class since most of the relevant

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

Course Schedule

Part I: Snow Precipitation & Micro-Scale Physics of Snow

- Week 1: Course overview: Water/ice physics
- Week 2: Formation of snow in the atmosphere
- Week 3: Weather and snow deposition
- Week 4: Dry snow metamorphisms & densification
- Week 5: Snow melt, wet snow metamorphism transition to firn

Part II: Layered Snow Covers and Snow Redistribution

- Week 6: Wind and snow: physics
- Week 7: Wind and snow: redistribution
- Week 8: Avalanches

Part III: Special Topics in Snow Science

- Week 9: Snow Remote Sensing
- Week 10: Snow and Living Things (Plants and Animals)

Part IV: Large Scale Snow Processes & Ramifications

- Week 11: Snow instrumentation & modeling
- Week 12: Snow in the climate system
- Week 13: Snow in human society
- Week 14: Arctic snow

Laboratories & Field Trips

Lab 1: Snow flakes: Capturing, preserving & photographing them (wherever/whenever it snows)

Lab 2: Destructive metamorphism (West Ridge/Arboretum)

Wind and Snow 1: Bagnold, R. A. (1937). "The transport of sand by wind." *The Geographical Journal*
90(2): 400-429.

Wind and Snow 2: Doumani, G. A. (1966). Surface Structures in Snow. International Conference on
Low Temperature Science: I. Physics of Snow and Ice, Sapporo, Japan.

Wind and Snow 3: Kobayashi N. (1977). "Studies of snow transport in low-level drifting snow."

Pruitt, W. O. J. (1984). Snow and Living Things. Northern Ecology and Resource Management. Rod

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