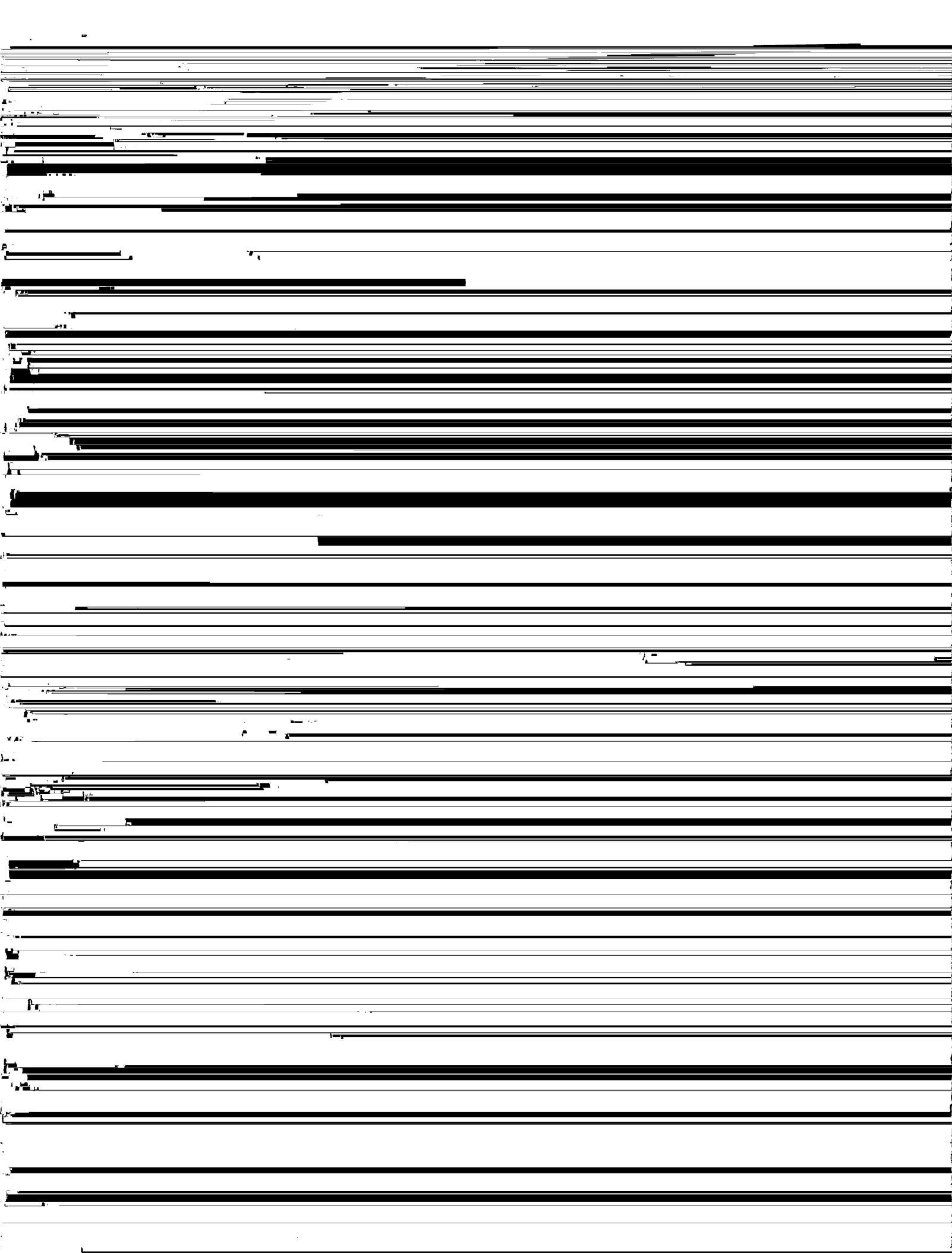


Original and copy sent electronic copy to the Faculty Senate Office



[REDACTED]

<b>UAF</b>	<b>Course</b>	GEOS F309 - TECTONICS
	<b>Professor</b>	Dr. Elisabeth Nadin
	<b>Term</b>	Fall 2014

**Professor's Contact Information**

<b>Office Phone</b>	907-474-5181
<b>Office Location</b>	REIC 334
<b>Email Address</b>	enadin@alaska.edu
<b>Office Hours</b>	MWF 12 pm - 3:30, 4:30 pm; T, R by appointment

**General Course Information**

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<b>Final Grade</b> will be based on the percentage of total course points earned, as follows (I will apply the +/- options for borderline scores)	A = 90–100% B = 80–89% C = 70–79% D = 65–69%
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### **Paper Explanations and Class Discussions**

You will be responsible for the assignments listed below and will be expected to read and discuss them in class.

have to negotiate a little to make sure there are no repeats among students). For each of these two

Animations of how the San Andreas fault formed:

North Pacific Plate Tectonic History, 80–0 Ma

N.E. Pacific and W. North America Plate History, 38–0 Ma

Southern California: Plate Tectonic History, 20–0 Ma

ASSIGNMENTS: Part 1 (1.1–1.4) (History and tectonics); Part 2 (Set 1) (no animations)

Week 7 - Continuity, Taylor's Formula and Stability



\*Jackson, 2002. Strength of the continental lithosphere: Time to abandon the jelly sandwich?  
GSA Today, 4-9

**Week 14: The Mechanism of Plate Tectonics**

Kearey et al. Chapter 12 (22 pages)

\*Coward and Lithgow-Bertelloni (2000) How mantle slabs drive plate tectonics

\*Lithgow-Bertelloni and Wright (2000) Slabs that drive the plates from below: Definitions