Phone % \%! '6(6%, calls are O) bet \* een % am and 11pm. Really.

+ssistant\$ Perrin, eal'-ullivan.pptealsullivan@alaska.edu/

-tudents completin0 this class \* ill have become ac1uainted \* ith the basic theory and operation of a scannin0 electron microscope and have a rudimentary understandin0 of sample preparation for scannin0 electron microscopy. -tudents \* ill learn to operate the +dvanced Instrumentation 2aboratory3s -R'5# -45 and to obtain di0ital ima0es \* ith the Iridium 6i0ital Ima0in0 - ystem as \* ell as to use the -457s 4ner0y 6 ispersive 'ray spectrometer for 1ualitative elemental analysis. 5 y hope is that students \* ill learn ho \* scannin0 electron microscopy can .or can3t8/ be applied to their o \* n interests. I do not intend for the course to be all'encompassin0, It is up to you to 0et as much out of the class as you \* ant.

, he lecture portion class \*ill consist of three t\*o'hour lectures held durin0 the first part of the semester. , here \*ill be three three'hour laboratory sessions, each session sli0htly after the lecture of the \*eek. 9or the rest of the semester students are free to \*ork on a pro:ect of their o\*n choice.

2ectures 5 onday evenin0s, "(( Reichardt 6'! P5.

2+;-\$ 5 eet in Room 16" Reichardt and \*ill be scheduled at the first lecture.

Readin0 material consists of articles 0leaned from several sources< there are many =intro to -4 5 > te?ts, a fe\* are mentioned belo\*.

2ecture 1 .@anuary "&/ ' 2ab -chedulin0, 2ab -afety, and -45 Overvie\*

2 ecture " .9ebruary (/ ' -electin0 appropriate operatin0 conditions, sample preparation, 4 - 4 5 2 ecture ( .9ebruary 1#/ ' Aualitative elemental analysis, di0ital ima0es and ima0e processin0

2ab 1 to be held before 2 ecture "', urnin0 on the -45, chan0in0 samples, 0 ettin0 an ima0e

presented

< the second set of talks \*ill be</p>
. Blass members are e?pected to

attend all talks.