

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

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-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 2aboratory's -R'5# -4 5 and to obtain di0ital ima0es *ith the Iridium 6i0ital Ima0in0 -ystem as *ell as to use the -4 5 7s 4ner0y 6ispersive 'ray spectrometer for 1ualitative elemental analysis. 5 y hope is that students *ill learn ho* scannin0 electron microscopy can .or canit8/ 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' ! P 5 .

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 -4 5 Overvie*

2ecture " .9ebruary (/ ' -electin0 appropriate operatin0 conditions, sample preparation, 4-4 5

2ecture (.9ebruary 1#/ ' Aualitative elemental analysis, di0ital ima0es and ima0e processin0

2ab 1 to be held before 2ecture "' , urnin0 on the -4 5 , chan0in0 samples, 0ettin0 an ima0e

presented

< the second set of talks *ill be . Blass members are e?pected to attend all talks.

