

Aqueous and Environmental Geochemistry

Course Id: CHEM 609/GEOS 633 (3 cr.)

Lecture: TR 11:30 – 1:00 (REIC 233)

Instructor: Tom Trainor
Rm 176 REIC
7 1"62#

Tom Trainor & a' a() a.*+,

Office Hours: M- 112

Grading: . ro/'*m S*("00
Mi+!*rm 2"0
. ro1*c\$ 2"0
1000

Course description and goals:

T2* 3oa' o4 \$2i(co, r(* i(\$o in\$ro+, c* !#à !| 87*n6ironm*n\$a' 3*oc2*mi(\$r7. T2* co, r(* con\$*n\$ inc', +*(\$

3*oc2*mica' *n6ironm*n\$(9 , (* o4 c2*mica' *5, i'i/ri, m an+)in*\$ic ana'7(i(\$o , n+*r(\$an+ \$2* (%*cia\$ion o4 (%rimari'7) inor3anic c2*mica' (%*ci*(an+ (\$r, c\$, ra' c2*mi(\$r7 conc*%\$(a%%'ica/'* \$o 'o: \$*m%*ra\$, r* min*ra'o37. Em%2a(i(i(%'ac*+ on \$2* (\$, +7 o4 aci+!/a(* c2*mi(\$r79 com% '*; a\$ion9 min*ra' %r*ci%i\$ation!+i((o', \$ion9 r*+, c\$ion!o; i+a\$ion r*ac\$ion(an+ (or%\$ion %roc*((* (.

Student Learning Outcomes

S\$, +*n\$(: i' '*arn \$o , \$i'i8* /o\$2 3ra%2ica' an+ com%, \$a\$iona' m*\$2o+(4or +*\$*rminin3 \$2* (%*cia\$ion o4 m, '\$i!com%on*n\$ a5, *o, (3*oc2*mica' (7(\$*m(. T2*(* ()i''(: i' / * +*6*'o%*+ \$2ro, 32 %ro/'*m (*\$(\$2a\$ *m%2a(i8* %ro/'*m (o'6in3 ()i''(S\$, +*n\$(: i' a'(o 3ain conc*%\$, a' /ac)3ro, n+ r*5, ir*+ 4or cri\$ica' r*6i*: an+ in\$*r%r*\$a\$ion o4 c, rr*n\$ 'i\$*ra\$, r* in \$2* <*'+(o4 a5, *o, (an+ *n6ironm*n\$a' 3*oc2*mi(\$r7.

e! t

=. >an3m, ir9 ?5, *o, (En6ironm*n\$a' G*oc2*mi(\$r79 . r*n\$ic* Ha''

Additional Sources

@. =r*6*r9 T2* 3*oc2*mi(\$r7 o4 Aa\$, ra' - a\$*r(9 . r*n\$ic* Ha''

G. S%o(i\$o9 T2* C2*mi(\$r7 o4 Soi'(9 O; 4or+ Bni6*r(i\$7 . r*((

- . S\$, mm an+ @. Mor3an9 ?5, a\$ic C2*mi(\$r7 3* #S@!- #o0torr

H.>. E2ric29 G*omicro/io'o379 Marc*' =*c)) *r

Important notes:

@an 2" >a(\$ +a7 4or (\$, +*n\$ an+ 4ac, '7 ini\$ia\$*+ +ro%(
 Marc2 1111" S%rin3 Dr*a)
 Marc2 29 >a(\$ +a7 4or (\$, +*n\$ an+ 4ac, '7 ini\$ia\$*+ : i\$2+ra: a'(E- F
 ?%ri' 29 >a(\$ +a7 o4 c'a((*(
 ?%r 30 - Ma7 Cina' E; am(

Computer La#:

Go, r *nro''m*n\$ in \$2i(co, r(* 3i6*(7o, , (*r %ri6i'*3*(in \$2* =*%ar\$m*n\$H(com%, \$*r 'a/.
 In4orma\$ion an+ %o'ici*(ar* a6ai'a/'* a\$:

Student \$ith " ocumented " isa#ilities:

S\$, +*n\$: i\$2 a %27(ica' or '*arnin3 +i(a/i'i\$79 : 2o ma7 n**+ aca+*mic accommo+a\$ion(9 (2o, '+
 con\$ac\$ \$2* =i(a/i'i\$7 S*r6ic*(ol c*(203 - HIT9 7 !70 3). =i(a/i'i\$7 S*r6ic*(: i' \$2*n no\$47 \$2*
 in(\$, c\$or o4 (%*cia' arran3*m*n\$(4or co, r(* : or).

Ethical Considerations:

T2* C2*mi(\$r7 =*%ar\$m*n\$. o'ic7 on C2*a\$in3 i(: E

T2* B?C Honor Co+* (\$a\$*(: E

" / # " \$
 % & " ' (\$
) , * + ' ') *
 / F

S\$, +*n\$(ma7 co"a/ora\$* on 2om*: or) a((i3nm*n\$(9 2o: *6*r9 *ac2 in+i6i+, a' (2o, '+ (, /mi\$ \$2*ir
 o: n co%7 (2o: in3 a'' \$2*ir : or). . ro1*c\$(ar* \$o /* com%'*\$*+ in+*%*n+*n\$'7.

