

at on w M x co c o r s n t a t an substanc abus couns n t rou t c o Couns n an
 D sab ty rv c s con f n t a s rv c s ar prov r r o c ar by c ns pro s s ona s o sc u an
 appo nt nt p as ca

ttps. www n t u r strar cata o s 2 , 1 2 , 0 % 2 FI AL % 2 9 , 2 , 1 p ! " ##
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Keep up with the reading assignments. Attend all lectures. Take notes.
Cell Phones: Turn off the ring function and use only in an emergency. Don't text in class.

Course outline with reading assignments:

Topic	C apt r s n Ma an et al.
Intro uct on	C , 1
r n o , ar y vo ut on o on Eart	C , 1
M crob a vo ut on p y o ny	C s , 1, 1
M crob a structur an unct on	C 2
rus s	C
rot sts	C , 1
M crob a rowt rowt a str zat on	C s
utr t on rowt a so at on t o s	
t r zat on s n ct on	
M crob a rowt quant y n crob s	
Growt n t cs	
Env ron n ta para t r s , t p ratur pH sa n ty oxy n tc	
M crob a tabo c v r s ty	C s , 4
M crob a n r t cs ox at on an r uct on	
F r ntat on an a rob c tabo s	
M or on r ntat on	
M tabo c v r s ty, ana rob c r sp rat on	
M tabo c v r s ty, c o autotrop y	
M tabo c v r s ty, p otoautotrop y carbon ox r xat on	
M tabo c v r s ty b o oc ca cyc n , C F Mn	C , 1
B o oc ca cyc n , avy ta s ta r cov ry H tc	C 2, 1 ct I, C 22
Mo cu ar crob o o y	C 4
M t o s n nv ron n ta crob o o y	C , 9
M crob a co o y b o s cro ab tats	C , 9
Env ron n ts, wat r a s r v r s oc ans	C 2
Env ron n ts, so subsur ac a r	C 2
ast wat r tr at nt	C 22 ct III
ant M crob Int ract ons	C 2 ct II
An a M crob Int ract ons	C 2 ct ons III I
o ut on B or at on	C 22 ct on II
ubl c H a t M crob o o y, at r an oo born s as s	C 2