

I# 0(1: . -!(*5! 6('4(1. !&-) < (-7!2+). *1)9+!)1. -(14-. !(*5!K450. !1: . !6('4. !, 9!1: . !)*9, - < (1), *!
&- . 2. *1. 5!)*!- . '(1), *!1, !&(-1)+4'(-!/, ', 0)+('!F4. 2!), *2!>?@A!''3BC#!

!
!

9"\$%&'%() #*+(%, -, '#. /01&) +324#! 22+22+6#

9"5"B9"! "#\$%&'%() 2@L: . !5. &(-1 < . *1!&(-1)+&(1. 5!)*!M*)6. -2)17!@A!(22. 22 < . *1!, 9!N-)11. *!
0, << 4*)+(1), *#!P, !, 1: . -!&-, 0-(<!' . (-*)*0!, 4!+, < . 2! = . - . !(22. 22. 5!9, -!1: . 2. !&-, 0-(<2!54-)*0!
QR!ES" T8" U#!

A"5"\$%&'%() @N. !(22. 22. 5!V@A!E3!G3!H!(*5!I!>2. . !(/, 6. C#L: . 2. !&-, 0-(<!' . (-*)*0!, 4!+, < . 2!
= . - . !('2, !(22. 22. 5!)*QR!ES" T8" U#!

!
!

<"#5/)) (%>#&;#! 22+22) +, 0#\$%&1+22#

C, 20%/) +, 0324@W, -!1: . !M*)6. -2)17!@A!(22. 22 < . *1!, 9!N-)11. *!0, << 4*)+(1), *3!J-#!0: -)2!X)11)*0!
&-, 6)5. 5!1: . !9)*('!1. - < !& (& . -!9, -!Y?A@!HBZ!8!0, *2. -6(1), *!Y), ', 07!1, !1: . ! < . < / . -2!, 9!1: . !?@A!
[4/+ , < <)11. . #!L:)2!+, 4-2. !2. -6. 2!(2!1: . !+ (&2!, * . !. %&. -). *+ . !9, -!, 4-!\$+, ', 07!(*5!\$6, '4!), *(-7!
Y), ', 07!+, *+ . *1-(1), *!2145. *12#!

!

W, -!1: . !\ #[#!&-, 0-(< ! = . !42. 5!1: . !]?*F4)-7!(*5!Q*('72)2!^4/-)+_!(*5!1: . !]A-('!0, << 4*)+(1), *!
^4/-)+_!1, !(22. 22!1: . !, -('!5. 9. *2. 3!(1+ (&2!, * . !. 6. *1!)*!&(-1)('!94'9)'' < . *1!, 9!1: . !\ (21. -!, 9![+). *+ . !
J. 0-. . #!Q!+, &7!, 9!1: . 2. !-4/-)+2!2!)*+'45. 5!)*!1: . !Q&&. *5)!>W)O#!QTC#L: . 2. !-4/-)+2!(-. !/(2. 5!, *!
1: . !` Q@M\$!-4/-)+2!5. 6. ', & . 5!/7!1. (<2!, 9!9(+4'17! . %&. -12!- . &- . 2. *1)*0!+, ". 0. 2!(*5!4*)6. -2)1). 2!
(+-, 22!1: . !M*)1. 5![1(1. 2#!L: . !` ('4. !^4/-)+!J. 6. ', & < . *1!V-, K. +1! = (2!2&, *2, -. 5!/7!1: . !
Q22, +)(1), *1, 9!Q < . -)+(*!0, ". 0. 2!(*5!M*)6. -2)1). 2#!

!

5() D:-, '#\$%&1+6/%+@#L: . !+, < /)* . 5!]?*F4)-7!(*5!Q*('72)2a!(*5!aA-('!0, << 4*)+(1), *a!-4/-)+! = (2!
(&&'). 5!1, !('!Z!\ #[#!2145. *12!1: (1!2+: . 54'. 5!(*!, -('!5. 9. *2. !)*!54-)*0!QR!ES" U8" Z#!

!

5() D:-, '# < 8(%(10+%20-12@#L: . !, -('!5. 9. *2. !)2!, * . !, 9!1: . !9)*('!- . F4)-. < . *12!1: (1!, 4-!\ #[#!
2145. *12!+, < &' . 1. #!Y7!1:

E"#5/)) (%>#& ;# 22+22) +, 0#F+2/:02#

A(-, #G-, 6-, ' 2@1: . !5. &(-1<. *1!=(2!6. -7!5)2(&& ,)*1. 5!1, !'. (- *!1: (1!, *'7!9, 4-!&(&. -2!9-, <! , 4-!
Y?A@!HBZ!+, 4-2. !=. -. !42. 5!)*!1: . !M*)6. -2)17!@A!(22. 22<. *1!, 9!N-)11. *!0, <<4*)+(1), *#!N. !
=. -. !4*5. -!1: . !)<&- 22), *!1: (1!1: . !5. &(-1<. *1!=, 4'5!/. !&-, 6)5. 5!)=)1: !-. 24'12!9, -!1: . !. *1)-. !
+'(22!2, !1: (1!=. !+, 4'5!(2, !<(c. !42. !, 9!1: . 2. !(22. 22<. *123!/41!+. -1()*'7!4*5. -21(*5!1: . !
+, *21-()*'12!(*5!)<)1(1), *2!, 9!1: . !?@A!24/+, <<)11. . !<. </-. 2!0)6. *!1: . !(-0. !*4</-. !, 9!&(&. -2!
1: . 7!=. -. !1(2c. 5!)=)1: !. 6('4(1)*0#\ , 6)*0!9, -=(-5!1, !5. &(-1<. *1!)=)'!+, *1)*4. !=)1: !, 4-!, =*!V@A!
(22. 22<. *1!, 9!1: . !Y#Q#!(*5!Y#[#!&-, 0-<2#!
!

W, -!1: . !\#[#!&-, 0-<3!=. !: , &. 5!('! , 9!, 4-!2145. *12! =, 4'5!2+, -. !(1!G!, -!(/, 6. !(2!Gd&-, 9)+). *1!
>Hd. %. <&'(-7C#@, , c)*0!(1!1: . !)*5)6)54('!V@A2!(22. 22. 5!>W)04-. !J''C3!1: . !(6. -(0. !2+, -. !=(2!G!, -!
(/, 6. !9, -!(''!9, 4-!V@A2#!e, =. 6. -3!)1!+(*/. !2. . *!9-, <!1:)2!2(<. !0-(&: !1: (1!2145. *12!('2, !2+, -. 5!E!
>d!/(2)+G!, -!'!>d<)*<('C!9, -!2. 6. -('! , 9!1: . !(22. 22<. *1!+-)1. -)(#!Q!2<)'(-!&(11. -*!+(*/. !, /2. -6. 5!
)!W)04-. !JE3!1: . !(6. -(0. !. (-* . 5!2+, -. !9, -!) *5)6)54('!(22. 22<. *1!+-)1. -)(#!? *!1:)2!0-(&: !=. !2. . !
1: (1!1: . !(6. -(0. !2+, -. !9, -!<, 2!1+-)1. -)(!)2!G!, -! : 0: . -3!/41!9, -!9, 4-!, 9!1: . !+-)1. -)(!1: . !(6. -(0. !

Average score

Score:

4 = Exemplary

3 = Proficient

2 = Developing

1 = Minimal

Organization: The organization of the paper is clear and logical. The conclusions are sequenced and the content of the paper is well organized. The transitions are seamless.

Language: The language is clear and precise. The writing is free of jargon and discipline as well as the use of jargon.

Delivery: Delivery is clear and concise. The paper is well organized and the contact and topicality are clear. The paper is well organized and the contact and topicality are clear.

Supporting Information: The supporting information is clear and concise. The paper is well organized and the contact and topicality are clear.

Central Message: The central message is clear and concise. The paper is well organized and the contact and topicality are clear.

Hypothesis/Objective: The hypothesis/objective is clear and concise. The paper is well organized and the contact and topicality are clear.

Background Knowledge: The background knowledge is clear and concise. The paper is well organized and the contact and topicality are clear.

Design Process: The design process is clear and concise. The paper is well organized and the contact and topicality are clear.

Analysis: The analysis is clear and concise. The paper is well organized and the contact and topicality are clear.

Conclusion: The conclusion is clear and concise. The paper is well organized and the contact and topicality are clear.

Caveats: The caveats are clear and concise. The paper is well organized and the contact and topicality are clear.

G- /%+ #E I "#Q6. -(0. !-4/-)+!2+, - . !. (-* . 5!9, -!. (+: !V@A!+-)1. -)(! . 6('4(1. 5#

#

G-' /%+#EJ"#Q6. -(0. !-4/-)+!2+, -.!. (-* . 5!9, -!. (+: !V@A!+-)1. -)(!9, -!(!"!Z!2145. *12!. 6('4(1. 5!)*!QRIES" T8"U#!

!

F+1&)) +, 6(0-&, 2#;&%#\$%&' %() #C) D%&K+) +, 0@#L: . !9(+4'17!(-. !(= (-. !, 9!1: . !(-. (2!)*!=:)+ : !, 4-!
2145. *12!-. F4)-. !(55)1), *(!)*21-4+1), *(!*5!. %&. -). *+. 3!(*5!: (6. !5. +)5. 5!4&, *!21. &2!1: (1!2: , 4'5!
/. !1(c. *!1, !)<&- , 6. !2145. *1!, 41+, <. 2!>2. . !P. %![1. &>2C!/. ', =C#!

!

L+M0#50+D324#;&%#<:&2-, '#08+#* &&D@# , =C

!

. 08+%#F+;:+10-&, 2h!?*!0. * . -('3!1: . !9(+4'17!+, *1)*4. !1, !6('4. !1: . !-4/-)+!(2!(*!. 99. +1)6. !<. (24-. !9, -!
(22. 22)*0!)9!, 4-!2145. *12!(-. !<. . 1)*0!, 4-!&- , 0-(<'! . (-*)*0!, 41+, <. 2#!N. !(-. !('2, !+, *9)5. *1!1: (1!
1: . !)*+'42), *1, 9!(!7. (-8', *0!+, 4-2. !)*!1: . !+4--)+4'4<!1: (1!2&. +)9)+('7!9, +42. 2!, *1!1: . !V@A2!, 9!1: . !
&- , 0-(<! =)'!1: (6. !(!2)0*)9)+(*13!&, 2)1)6. !)<&(+!1, *1!1: . !24++ . 22!, 9!, 4-! \#[#!2145. *12#!Q55)1), *('73!
/7!42)*0!1: . !2(<. !^4/-)+!7. (-!(91. -!7. (-3! =. ! =)'!)*+ . (2. !, 4-!21(1)21)+(!&, =. -!(*5!/. !(/'. !1, !
. 6('4(1. !9)!(*7!, 9!, 4-!&- , 0-(<<(1)+!+: (*0. 2!<(c. !(15)99. -. *+ . !)*!2145. *1!, 41+, <. 2#!

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! @78 ;5ABW

Program Learning Outcomes

1. biological ... from ions to ecosystems.
2. Der...
3. In...
4. Clear...
5. ...

A description of an ex...
true. *Scores: 4 = ...

Criteria	Capstone / Master	Score	PLO
Presentat...	The introduction...		
Deliver...	Deliver...		
Supporting material	Supporting material...		
Claim(s)	Main claim is clear and...		

INQUIRY

Criteria	Capstone / Master	Score	PLO
Hypothesis/Question	Hypothesis or question...		
Background/Outline	Background/Outline...		
Evidence	Evidence...		
Recognizes Limitations	Recognizes Limitations...		

G-' /%+#! N"!^4/-)+2!42. 5)!*(22. 22<. *1!, 9!\#[#!2145. *1!, -(!5. 9. *2. !, 9!1: . 2)2#!