

To all:

I support the changes outlined below relative to curriculum change forms that were submitted this summer in an effort to add pre-requisites to the cross-listed principles of environmental sciences and introduction to biological sciences courses. My support reflects wishes of departmental faculty who see this as a way to increase success rates.

Charlie

Dr. Charles Gagen, Head

=====



For the Natural and Health Sciences proposals, the Faculty Senate voted to send them back to the General Education Committee and the Curriculum Committee with the following revision to the proposals:

Department of Biological Sciences

1. Add the Prerequisite: Score of 19 or higher on the math portion of the enhanced ACT or completion of MATH 0903, Intermediate Algebra, to BIOL 1004, Principles of Environmental Science; and
2. Add the Prerequisite: Score of 19 or higher on the math portion of the enhanced ACT or completion of MATH 0903, Intermediate Algebra, to BIOL 1014, Introduction to Biological Science.

Department of Physical Sciences

1. Add the Prerequisite: Score of 19 or higher on the math portion of the enhanced ACT or completion of MATH 0903, Intermediate Algebra, to PHSC 1004, Principles of Environmental Science.

So, these three proposals need to go back to these committees.

I am asking Dr. Gagen, Dr. Musser, and Dr. Limperis for letters of support (or not) for these changes. Once I have those, I will mark these three proposals up and we will send Tammy the scanned copies. She can post out to the Curriculum Committee website, and then we can try to get the General Education Committee together first (maybe before the break) and the Curriculum Committee together in late January.

That way the Faculty Senate can review the proposals again in February.

Pat Chronister



ARKANSAS TECH  
UNIVERSITY

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**Department of  
Physical Sciences**  
McEver Hall Room 34E  
1701 North Boulder Avenue  
Russellville, Arkansas 72801

Office: 479-968-0293  
Fax: 479-964-0837  
[www.atu.edu/physci](http://www.atu.edu/physci)

November 17, 2014

Academic Affairs,

I support the faculty senate amendment to the curriculum proposal resulting in the following curriculum change:

Add the Prerequisite: Score of 19 or higher on the math portion of the enhanced ACT or completion of MATH 0903, Intermediate Algebra, to PHSC 1004, Principles of Environmental Science.

Sincerely,

Jim Musser, Ph.D.  
Head, Department of Physical Sciences  
Arkansas Tech University

## Pat Chronister

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**From:** Thomas Limperis  
**Sent:** November 17, 2014 3:32 PM  
**To:** Pat Chronister  
**Cc:** Jeff Robertson  
**Subject:** FW: BIOL 1014, BIOL/PHSC 1004

I support the proposal to add prerequisites to the PHSC and BIOL courses as described below.

Tom Limperis

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**From:** Jeff Robertson  
**Sent:** Monday, November 17, 2014 9:16 AM  
**To:** James Musser; Charlie Gagen; Thomas Limperis  
**Subject:** BIOL 1014, BIOL/PHSC 1004

ACADEMIC AFFAIRS would like an e-mail note from each of you stating whether your department supports (or does not support) the amendments to the curriculum proposals as changed in Faculty Senate before they move forward.

=====

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### Department of Biological Sciences

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2. Add the Prerequisite: Score of 19 or higher on the math portion of the enhanced ACT or completion of MATH 0903, Intermediate Algebra, to BIOL 1014, Introduction to Biological Science.

### Department of Physical Sciences

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So, these three proposals need to go back to these committees.

I am asking Dr. Gagen, Dr. Musser, and Dr. Limperis for letters of support (or not) for these changes. Once I have those, I will mark these three proposals up and we will send Tammy the scanned copies. She can post out to the Curriculum Committee website, and then we can try to get the General Education Committee together first (maybe before the break) and the Curriculum Committee together in late January.

That way the Faculty Senate can review the proposals again in February.

Pat Chronister

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Jeff Robertson, Ph.D.  
Professor of Astrophysics and Dean,  
College of Natural & Health Sciences  
1701 N. Boulder Ave.

**Arkansas Tech University**  
**REQUEST FOR COURSE CHANGE**

*DenEd not appr 9/29/14  
CC appr 9/23/14 JW*  
**RECEIVED**  
*FS tabled 10/14/14 JW*  
**JUN 30 2014**

Registrar's Office

*FS sent back to DenEd  
and CC with prog  
change 11/11/14*

TO:	Select Appropriate Committee
FROM (Initiating Department):	BIOS
DATE SUBMITTED:	30JUN14

Title	Signature	Date
Department Head	<i>Charles Hagan</i>	6-30-14
Dean	<i>Jeff W. Reter</i>	2014 Jun 30
Teacher Education Council (if applicable)	N/A	
Graduate Council (if applicable)	N/A	
Registrar	<i>Gammy Weaule</i>	7/25/14
Vice President for Academic Affairs		

Course Subject: (e.g., ACCT, ENGL)	Course Number: (e.g., 1003)
BIOL	1004
Is this course cross-listed with another existing course? If so, list course subject and number.	
<input checked="" type="radio"/> Yes <input type="radio"/> No   PHSC 1004	
Official Catalog Title:	
<del>Introduction to Biological Sciences</del> Principles of Environmental Science	
Request to change: (check appropriate box):	
<input type="checkbox"/> Course Number	<input type="checkbox"/> Title
<input type="checkbox"/> Cross-Listing	<input checked="" type="checkbox"/> Prerequisite
<input type="checkbox"/> Grading	<input type="checkbox"/> Fee
<input type="checkbox"/> Other	
<b>NOTES:</b> These changes will become effective in the Summer I Term of the new catalog year. If this course is cross-listed, a prerequisite/co-requisite, or included in the course description of other courses, a Course Change must be submitted to address all changes in related courses.	

New Course Number: (e.g., 1003)		
NA		
New Official Catalog Title: (If official title exceeds 30 characters, indicate Banner Title below)		
NA		
Banner Title: (limited to 30 characters, including spaces, capitalize all letters - this will display on the transcript)		
NA		
New Course Description:		
NA		
New Cross List:		
<input type="checkbox"/> Adding Cross-Listing	<input type="checkbox"/> Changing Cross-Listing	<input type="checkbox"/> Deleting Cross-Listing
If adding or changing cross-listing, indicate course subject and number		NA
New Prerequisite (list all, as you want them to appear in the catalog):		
<p><i>math</i></p> <p><b>Score of 19 or higher on the reading portion of the enhanced ACT or completion of <del>ENGL 1013</del> MATH 0903</b></p>		
New Co-requisite (list all, as you want them to appear in the catalog):		
<input type="checkbox"/> Elective <input type="checkbox"/> Major <input type="checkbox"/> Minor		
(If major or minor course, you must complete the Request for Program Change form to add course to program.) --NA		
Attach the Course Addition Assessment Form. The form is located on the Assessment & Institutional Effectiveness web page at <a href="http://www.atu.edu/assessment/">http://www.atu.edu/assessment/</a>		
If this course will affect other departments, a Departmental Support Form for each affected department must be attached. The form is located on the Curriculum forms web page at <a href="http://www.atu.edu/registrar/curriculum_forms.php">http://www.atu.edu/registrar/curriculum_forms.php</a> .		

*per FS  
11/11/14*

*MATH 0903*

*pec*



Arkansas Tech University

Course Change

Assessment Form

**Our Mission**

Arkansas Tech University, a state-supported institution of higher education, is dedicated to nurturing scholastic development, integrity, and professionalism. The University offers a wide range of traditional and innovative programs which provide a solid educational foundation for life-long learning to a diverse community of learners.

Provide an answer for each question. Your answers are to be typed single spaced.

a. If this course is mandated by an accrediting or certifying agency, include the directive. If not, state not applicable. **NA**

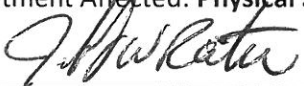
b. Provide an example or examples of student learning assessment evidence which supports the course change. **This course is frequently used to satisfy general education requirements in science and therefore serves a similar population of students as BIOL 1014. Success rates in this BIOL/PHSC 1004 course are also similar to performance in BIOL 1014, 30% unsuccessful versus 32%, respectively. Therefore, in an effort to improve student success, we propose a minimum score of 19 ACT in reading (which is common in many lower level science classes and pending for BIOL 1014). For students who fail to reach 19 in reading on the ACT, we offered the alternative to complete ENGL 1013. Our hope is that the proposed addition of this ACT-based pre-requisite will assure that the incoming students are adequately prepared to read the textbook which should contribute to improved success.**

*See prev change by FS 11/11/14*

**Arkansas Tech University**  
**DEPARTMENTAL SUPPORT FORM**

This form must be completed for every department affected by the course change.

**Regarding proposed new prerequisites for BIOL 1004.**

Department Affected: <b>Physical Sciences</b> 	This department <input checked="" type="checkbox"/> supports the change. <input type="checkbox"/> does not support
Comments:	

Department Head Signature: \_\_\_\_\_



Date: 2014 Jan 30

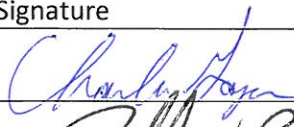
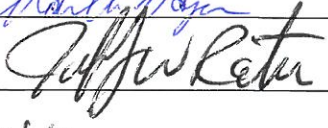
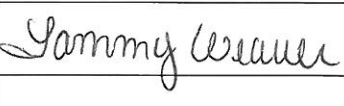
Den Ed not appr 9/29/14 jee  
CC appl 9/23/14 JW

RECEIVED  
FS Jabled 10/14/14 jee  
JUN 30 2014

Arkansas Tech University  
REQUEST FOR COURSE CHANGE

Registrar's Office

TO:	Select Appropriate Committee	FS sent back to Den Ed and CC with peng change 11/11/14
FROM (Initiating Department):	BIOS	
DATE SUBMITTED:	30JUN14	

Title	Signature	Date
Department Head		6-30-14
Dean		2014 Jun 30
Teacher Education Council (if applicable)	N/A	
Graduate Council (if applicable)	N/A	
Registrar		7/25/14
Vice President for Academic Affairs		

Course Subject: (e.g., ACCT, ENGL)	Course Number: (e.g., 1003)												
BIOL	1014												
Is this course cross-listed with another existing course? If so, list course subject and number. <input type="radio"/> Yes <input checked="" type="radio"/> No													
Official Catalog Title: Introduction to Biological Sciences													
Request to change: (check appropriate box): <table><tr><td><input type="checkbox"/> Course Number</td><td><input type="checkbox"/> Title</td><td><input type="checkbox"/> Course Description</td></tr><tr><td><input type="checkbox"/> Cross-Listing</td><td><input checked="" type="checkbox"/> Prerequisite</td><td><input type="checkbox"/> Co-requisite</td></tr><tr><td><input type="checkbox"/> Grading</td><td><input type="checkbox"/> Fee</td><td></td></tr><tr><td><input type="checkbox"/> Other</td><td colspan="2"></td></tr></table>		<input type="checkbox"/> Course Number	<input type="checkbox"/> Title	<input type="checkbox"/> Course Description	<input type="checkbox"/> Cross-Listing	<input checked="" type="checkbox"/> Prerequisite	<input type="checkbox"/> Co-requisite	<input type="checkbox"/> Grading	<input type="checkbox"/> Fee		<input type="checkbox"/> Other		
<input type="checkbox"/> Course Number	<input type="checkbox"/> Title	<input type="checkbox"/> Course Description											
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New Course Number: (e.g., 1003)

NA

New Official Catalog Title: (If official title exceeds 30 characters, indicate Banner Title below)

NA

Banner Title: (limited to 30 characters, including spaces, capitalize all letters - this will display on the transcript)

NA

New Course Description:

NA

New Cross List:

☐ Adding Cross-Listing

☐ Changing Cross-Listing

☐ Deleting Cross-Listing

If adding or changing cross-listing, indicate course subject and number

NA

New Prerequisite (list all, as you want them to appear in the catalog):

**Score of 19 or higher on the <sup>math</sup>reading portion of the enhanced ACT or completion of <sup>math 0903</sup>ENGL 1013.**

New Co-requisite (list all, as you want them to appear in the catalog):

☐ Elective

☐ Major

☐ Minor

(If major or minor course, you must complete the Request for Program Change form to add course to program.) --NA

Attach the Course Addition Assessment Form. The form is located on the Assessment & Institutional Effectiveness web page at <http://www.atu.edu/assessment/>

If this course will affect other departments, a Departmental Support Form for each affected department must be attached. The form is located on the Curriculum forms web page at [http://www.atu.edu/registrar/curriculum\\_forms.php](http://www.atu.edu/registrar/curriculum_forms.php).

Arkansas Tech University

Course Change

Assessment Form

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Provide an answer for each question. Your answers are to be typed single spaced.

a. If this course is mandated by an accrediting or certifying agency, include the directive. If not, state not applicable. **NA**

b. Provide an example or examples of student learning assessment evidence which supports the course change. **This course was selected for participation in TECH's G2C Program (Gateways to Completion). Thus, it has been identified as among the top few courses on the campus for having high rates of D's, F's, and W's which can be considered "non-success". For example, the G2C Table 1C (available from TECH's G2C webpage) indicated that about 32% of BIOL 1014 students are likely to be unsuccessful. However, this statistic jumps to around 47% for those who were also enrolled in developmental courses. In an effort to improve student success, departmental faculty recommended the 19 ACT reading score which is common in many lower level science classes. For students who fail to reach 19 in reading on the ACT, we offered the alternative to complete ENGL 1013. Our hope is that the proposed addition of this ACT-based pre-requisite will assure that the incoming students are adequately prepared to read the textbook which should contribute to improved success.**

See pre-reg change by FS 11/11/14

RECEIVED

JUN 30 2014

**Arkansas Tech University**  
**REQUEST FOR COURSE CHANGE**

Registrar's Office

TO:	Select Appropriate Committee	CC appx 9/23/14 Jlo DenEd not app 9/29/14
FROM (Initiating Department):	BIOS	FS tabled 10/14/14
DATE SUBMITTED:	30JUN14	FS sent back to DenEd and CC with prewz change 11/11/14

Title	Signature	Date
Department Head	<i>Charlie Hagen</i>	6-30-14
Dean	<i>Jeff W. Keith</i>	2014 Jun 30
Teacher Education Council (if applicable)	N/A	
Graduate Council (if applicable)	N/A	
Registrar	<i>Yammy Weaver</i>	7/25/14
Vice President for Academic Affairs		

Course Subject: (e.g., ACCT, ENGL)	Course Number: (e.g., 1003)
PHSC	1004
Is this course cross-listed with another existing course? If so, list course subject and number.	
<input checked="" type="radio"/> Yes <input type="radio"/> No <b>BIOL 1004</b>	
Official Catalog Title:	
<del>Introduction to Biological Sciences</del> <b>Principles of Environmental Science</b>	
Request to change: (check appropriate box):	
<input type="checkbox"/> Course Number	<input type="checkbox"/> Title
<input type="checkbox"/> Cross-Listing	<input checked="" type="checkbox"/> Prerequisite
<input type="checkbox"/> Grading	<input type="checkbox"/> Fee
<input type="checkbox"/> Other	
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New Cross List:

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☐ Changing Cross-Listing

☐ Deleting Cross-Listing

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New Prerequisite (list all, as you want them to appear in the catalog):

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☐ Major

☐ Minor

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see prev g change by FS 11/11/14




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**Regarding proposed new prerequisites for PHSC 1004.**

Department Affected: <b>Physical Sciences</b>	This department <input checked="" type="checkbox"/> supports <input type="checkbox"/> does not support the change.
Comments:	

Department Head Signature: \_\_\_\_\_



Date: 2014 Jan 30