PROPOSAL FOR COURSE CHANGE

To: Curriculum Committee

From: Department of Physical Science

Date submitted: October 1, 2008

Request for: Course addition (PHSC 1011); *modify curricula: a) add PHSC 1011 b) delete one hr of elective (does not apply to teacher education program)*

Submitted by: Linda Kondrick, Robin Lasey, and Jim Musser

Approved by: Department Head: *[signature]*
Dean of School *[signature]*

Reviewed by: Registrar:
Vice President:

Rationale:
The Department of Physical Sciences has the following objectives pertaining to students majoring in the physical sciences:

1. Students will be introduced to the university environment, including people, expectations, opportunities and resources.
2. Students will be introduced to skills that increase the likelihood of success in college and career.
3. Students will be introduced to the Department of Physical Sciences, including faculty, programs, curricula and resources.
4. Students will be introduced to opportunities for physical scientists, including further study and career options.
5. Students will be introduced to skills of particular importance within the physical sciences.
6. Students will be introduced to fellow students within the physical sciences and required to work collaboratively in an effort to facilitate and establish study groups that will operate throughout the students' college years.

Traditionally, these objectives were addressed by PHSC 1001. Beginning in Fall 2008, PHSC 1001 was modified to replace TECH 1001 for students majoring in a physical science. As such, PHSC 1001 still addresses objectives 1, 2 and 6 from the above list, but no longer addresses objectives 3, 4 and 5. We propose the addition of PHSC 1011 to address objectives 3, 4, 5, and 6. Thus PHSC 1001 will address issues of importance to all university students and PHSC 1011 will address issues of importance to majors in the physical sciences.

Note that both PHSC 1001 and PHSC 1011 will address objective 6 by nature of the course structure and the student makeup. Both courses are of particular importance for physics majors who do not typically take a physics course until their sophomore year. PHSC 1001 provides (and PHSC 1011 will provide) an important introduction and continued interaction between physics majors and between physics majors and the physics faculty during the critical freshman year.

app CC 11/14/08
app FS 12/3/08

PHSC1011, New course:

I.   **Catalog description:**
Continuation of PHSC 1001. Introduction to programs of study and employment opportunities for students of the physical sciences. The course emphasizes information and skills of particular importance in the physical sciences. All students majoring in programs within the Department of Physical Sciences are strongly encouraged to take this course during their first spring semester on the Arkansas Tech University campus. Lecture one hour.

Number: PHSC 1011

Title for Catalog: Orientation to Physical Science II

*Title for Course Inventory (24 characters):

Effective date or term: Spring 2010

II.   **Justification and feasibility of course:**

   A. **What is the need for this course? Who will take it?**
   This course meets objectives previously addressed by PHSC 1001. All students majoring in the physical sciences will take the course

   B. **How does it relate to other work being offered by your department? Is there an overlap with other courses in the department?**
   The addition of PHSC 1011 restores the treatment of important material that was dropped in the modification of PHSC 1001 to replace TECH 1001.

   C. **Is this course part of any general plan of development within your department?**
   PHSC 1011 introduces students to the department and career opportunities early in the college experience so that students can make informed career decisions and lay a foundation for success in the physical sciences.

   D. **How often will the course be offered?**
   PHSC 1011 will be offered each spring semester.

   E. **How will the course be staffed?**
   The addition of PHSC 1011 combined with the modification of PHSC 1001 requires the addition of one credit hour per year which is no different than the one credit hour per year increase that would have occurred if the department had opted for the standard implementation of TECH 1001.

   F. **When applicable, state with which departments you have specifically coordinated this change?**
   The proposal only affects the Department of Physical Science.

List Department Head/ Program Director Consulted: (Add to list as needed)	Indicate Support for Proposal (yes/no)	Date:
		2008 Oct 1
1. Jeff Robertson	yes	
2.		
3.		
4.		
5.		

Outline in specific detail how your proposal will alter the program (include course number and title): **Curriculum in Chemistry (General Option)**

Fall Start	
Freshman Fall Semester Add/Change: Delete: Total Hours:	Freshman Spring Semester Add/Change: **PHSC 1011** Delete: Total Hours: **17 hrs**
Sophomore Fall Semester Add/Change: Delete: Total Hours:	Sophomore Spring Semester Add/Change: Delete: Total Hours:
Junior Fall Semester Add/Change: Delete: Total Hours:	Junior Spring Semeste: Add/Change: Elective 15 hours to 14 hours Delete: Total Hours: 14
Senior Fall Semester Add/Change: Delete: Total Hours:	Senior Spring Semester Add/Change: Delete: Total Hours:
Spring Start (If applicable)	
Freshman Spring Semester Add/Change: **PHSC 1011** Delete: Total Hours: **16 hrs**	Freshman Fall Semester Add/Change: Delete: Total Hours:
Sophomore Spring Semester Add/Change: Delete: Total Hours:	Sophomore Fall Semester Add/Change: Delete: Total Hours:
Junior Spring Semester Add/Change: Delete: Total Hours:	Junior Fall Semester Add/Change: Delete: Total Hours:
Senior Spring Semester Add/Change: Elective 15 hours to 14 hours Delete: Total Hours: 14	Senior Fall Semester Add/Change: Delete: Total Hours:
Total Program Hours 124	

Outline in specific detail how your proposal will alter the program (include course number and title): **Curriculum in Chemistry (Environmental Option)**

Fall Start	
Freshman Fall Semester Add/Change: Delete: Total Hours:	Freshman Spring Semester Add/Change: **PHSC 1011** ✓ Delete: Total Hours: **17 hrs**
Sophomore Fall Semester Add/Change: Delete: Total Hours:	Sophomore Spring Semester Add/Change: Delete: Total Hours:
Junior Fall Semester Add/Change: Delete: Total Hours:	Junior Spring Semester Add/Change: Delete: Total Hours:
Senior Fall Semester Add/Change: Delete: Total Hours:	Senior Spring Semester Add/Change: Elective 9-6 to Elective 8-5 ✓ Delete: Total Hours: 13 ✓
Spring Start (If applicable)	
Freshman Spring Semester Add/Change: **PHSC 1011** ✓ Delete: Total Hours: **17 hrs** ✓	Freshman Fall Semester Add/Change: Delete: Total Hours:
Sophomore Spring Semester Add/Change: Delete: Total Hours:	Sophomore Fall Semester Add/Change: Delete: Total Hours:
Junior Spring Semester Add/Change: Delete: Total Hours:	Junior Fall Semester Add/Change: Delete: Total Hours:
Senior Spring Semester Add/Change: Elective 9-6 to Elective 8-5 Delete: 14 Total Hours: 13	Senior Fall Semester Add/Change: Delete: Total Hours:
Total Program Hours 124	

Outline in specific detail how your proposal will alter the program (include course number and title): **Curriculum in Chemistry (Professional Option)**

Fall Start	
Freshman Fall Semester Add/Change: Delete: Total Hours:	Freshman Spring Semester Add/Change: **PHSC 1011** Delete: Total Hours: **16 hrs**
Sophomore Fall Semester Add/Change: Delete: Total Hours:	Sophomore Spring Semester Add/Change: Delete: Total Hours:
Junior Fall Semester Add/Change: Delete: Total Hours:	Junior Spring Semester Add/Change: Delete: Total Hours:
Senior Fall Semester Add/Change: Delete: Total Hours:	Senior Spring Semester Add/Change: Elective 8-6 to Elective 7-5 Delete: Total Hours: 13
Spring Start (If applicable)	
Freshman Spring Semester Add/Change: **PHSC 1011** Delete: Total Hours: **16 hrs**	Freshman Fall Semester Add/Change: Delete: Total Hours:
Sophomore Spring Semester Add/Change: Delete: Total Hours:	Sophomore Fall Semester Add/Change: Delete: Total Hours:
Junior Spring Semester Add/Change: Delete: Total Hours:	Junior Fall Semester Add/Change: Delete: Total Hours:
Senior Spring Semester Add/Change: Elective 8-6 to Elective 7-5 Delete: Total Hours: 13	Senior Fall Semester Add/Change: Delete: Total Hours:
Total Program Hours 124	

Outline in specific detail how your proposal will alter the program (include course number and title): **Curriculum in Chemistry (Biochemistry Option)**

Fall Start	
Freshman Fall Semester Add/Change: Delete: Total Hours:	Freshman Spring Semester Add/Change: **PHSC 1011** ✓ Delete: Total Hours: **16 hrs** ✓
Sophomore Fall Semester Add/Change: Delete: Total Hours:	Sophomore Spring Semester Add/Change: Delete: Total Hours:
Junior Fall Semester Add/Change: Delete: Total Hours:	Junior Spring Semester Add/Change: Delete: Total Hours:
Senior Fall Semester Add/Change: Delete: Total Hours:	Senior Spring Semester Add/Change: Elective 7 to Elective 6 ✓ Delete: Total Hours: 6 15
Spring Start (If applicable)	
Freshman Spring Semester ✓ Add/Change: **PHSC 1011** ✓ Delete: Total Hours: **16 hrs** ✓	Freshman Fall Semester Add/Change: Delete: Total Hours:
Sophomore Spring Semester Add/Change: Delete: Total Hours:	Sophomore Fall Semester Add/Change: Delete: Total Hours:
Junior Spring Semester Add/Change: Delete: Total Hours:	Junior Fall Semester Add/Change: Delete: Total Hours:
Senior Spring Semester Add/Change: Elective 7 to Elective 6 Delete: Total Hours: 6 15	Senior Fall Semester Add/Change: Delete: Total Hours:
Total Program Hours 124	

Outline in specific detail how your proposal will alter the program (include course number and title): **Curriculum in Geology (Professional Option)**

Fall Start	
Freshman Fall Semester Add/Change: Delete: · Total Hours:	Freshman Spring Semester ✓ Add/Change: **PHSC 1011** ✓ Delete: PE Activity Total Hours: **17 hrs** ✓
Sophomore Fall Semester Add/Change: Delete: Total Hours:	Sophomore Spring Semester Add/Change: Delete: Total Hours:
Junior Fall Semester Add/Change: Delete: Total Hours:	Junior Spring Semester Add/Change: Delete: Total Hours:
Senior Fall Semester ✓ Add/Change: PE Activity ✓ Delete: Elective 1 hr ✓ Total Hours: 12 ✓	Senior Spring Semester Add/Change: Delete: Total Hours:
NO SPRING START Spring Start (If applicable)	
Freshman Spring Semester Add/Change: Delete: Total Hours:	Freshman Fall Semester Add/Change: Delete: Total Hours:
Sophomore Spring Semester Add/Change: Delete: Total Hours:	Sophomore Fall Semester Add/Change: Delete: Total Hours:
Junior Spring Semester Add/Change: Delete: Total Hours:	Junior Fall Semester Add/Change: Delete: Total Hours:
Senior Spring Semester Add/Change: Delete: Total Hours:	Senior Fall Semester Add/Change: Delete: Total Hours:
Total Program Hours ___ 124	

Outline in specific detail how your proposal will alter the program (include course number and title): **Curriculum in Geology (Environmental Option)**

Fall Start	
Freshman Fall Semester Add/Change: Delete: Total Hours:	Freshman Spring Semester Add/Change: **PHSC 1011** Delete: Total Hours: **17 hrs**
Sophomore Fall Semester Add/Change: Delete: Total Hours:	Sophomore Spring Semester Add/Change: Delete: Total Hours:
Junior Fall Semester Add/Change: Delete: Total Hours:	Junior Spring Semester Add/Change: Delete: Total Hours:
Senior Fall Semester Add/Change: Delete: Total Hours:	Senior Spring Semester Add/Change: Science Elective 9 to 8 hours Delete: Total Hours: 13
Spring Start (If applicable)	
Freshman Spring Semester Add/Change: **PHSC 1011** Delete: Total Hours: **17 hrs**	Freshman Fall Semester Add/Change: Delete: Total Hours:
Sophomore Spring Semester Add/Change: Delete: Total Hours:	Sophomore Fall Semester Add/Change: Delete: Total Hours:
Junior Spring Semester Add/Change: Delete: Total Hours:	Junior Fall Semester Add/Change: Delete: Total Hours:
Senior Spring Semester Add/Change: Science Elective 6 to 5 hours Delete: Total Hours: 14	Senior Fall Semester Add/Change: Delete: Total Hours:
Total Program Hours 124	

Outline in specific detail how your proposal will alter the program (include course number and title): **Curriculum in Physical Science (General Option)**

Fall Start	
Freshman Fall Semester Add/Change: Delete: Total Hours:	Freshman Spring Semester Add/Change: **PHSC 1011** ✓ Social Sciences 6 to 3 hours ✓ Delete: Total Hours: **15 hrs** ✓
Sophomore Fall Semester Add/Change: Delete: Total Hours:	Sophomore Spring Semester Add/Change: Delete: Total Hours:
Junior Fall Semester Add/Change: Delete: Total Hours:	Junior Spring Semester Add/Change: Social Sciences 3 hours ✓ Elective 5 to 4 hours ✓ Delete: Total Hours: 16
Senior Fall Semester Add/Change: Delete: Total Hours:	Senior Spring Semester Add/Change: Delete: Total Hours:
Spring Start (If applicable)	
Freshman Spring Semester Add/Change: **PHSC 1011** ✓ Delete: Total Hours: **16 hrs** ✓	Freshman Fall Semester Add/Change: Delete: Total Hours:
Sophomore Spring Semester Add/Change: Delete: Total Hours:	Sophomore Fall Semester Add/Change: Delete: Total Hours:
Junior Spring Semester Add/Change: Elective 7 to 6 hours ✓ Delete: Total Hours: 15 ✓	Junior Fall Semester Add/Change: Delete: Total Hours:
Senior Spring Semester Add/Change: Delete: Total Hours:	Senior Fall Semester Add/Change: Delete: Total Hours:
Total Program Hours 124	

Outline in specific detail how your proposal will alter the program (include course number and title): **Curriculum in Physical Science (Physics Option)**

Fall Start	
Freshman Fall Semester Add/Change: Delete: Total Hours:	Freshman Spring Semester Add/Change: **PHSC 1011** ✓ Delete: Total Hours: **16 hrs** ✓
Sophomore Fall Semester Add/Change: Delete: Total Hours:	Sophomore Spring Semester Add/Change: Elective 3 to 2 hours ✓ Delete: Total Hours: 17 ✓
Junior Fall Semester Add/Change: Delete: Total Hours:	Junior Spring Semester Add/Change: Delete: Total Hours:
Senior Fall Semester Add/Change: Delete: Total Hours:	Senior Spring Semester Add/Change: Delete: Total Hours:
Spring Start (If applicable)	
Freshman Spring Semester Add/Change: **PHSC 1011** ✓ Delete: Total Hours: **16 hrs** ✓	Freshman Fall Semester Add/Change: Delete: Total Hours:
Sophomore Spring Semester Add/Change: Delete: Total Hours:	Sophomore Fall Semester Add/Change: Elective 3 to 2 hours ✓ Delete: Total Hours: 17 ✓
Junior Spring Semester Add/Change: Delete: Total Hours:	Junior Fall Semester Add/Change: Delete: Total Hours:
Senior Spring Semester Add/Change: Delete: Total Hours:	Senior Fall Semester Add/Change: Delete: Total Hours:
Total Program Hours 124	

Outline in specific detail how your proposal will alter the program (include course number and title): **Curriculum in Physical Science (Nuclear Option)**

Fall Start	
Freshman Fall Semester Add/Change: Delete: Total Hours:	Freshman Spring Semester Add/Change: **PHSC 1011** ✓ Delete: COMS 2803 ✓ Total Hours: **15 hrs** ✓
Sophomore Fall Semester ✓ Add/Change: COMS 2803 ✓ Delete: PE Activity ✓ Total Hours: 17 ✓	Sophomore Spring Semester Add/Change: Delete: Total Hours:
Junior Fall Semester ✓ Add/Change: PE Activity ✓ 1 hour Delete: Total Hours: 16 ✓	Junior Spring Semester Add/Change: Delete: Total Hours:
Senior Fall Semester ✓ Add/Change: Elective 3 to 2 hours ✓ Delete: Total Hours: 14 ✓	Senior Spring Semester Add/Change: Delete: Total Hours:
Spring Start (If applicable)	
Freshman Spring Semester ✓ Add/Change: **PHSC 1011** ✓ Delete: COMS 2803 ✓ Total Hours: **15 hrs** ✓	Freshman Fall Semester Add/Change: Delete: Total Hours:
Sophomore Spring Semester ✓ Add/Change: COMS 2803 ✓ Delete: PE Activity ✓ Total Hours: 17 ✓	Sophomore Fall Semester Add/Change: Delete: Total Hours:
Junior Spring Semester ✓ Add/Change: PE Activity ✓ Delete: Total Hours: 16 ✓	Junior Fall Semester Add/Change: Delete: Total Hours:
Senior Spring Semester ✓ Add/Change: Elective 3 to 2 hours ✓ Delete: Total Hours: 12-15 ✓	Senior Fall Semester Add/Change: Delete: Total Hours:
Total Program Hours 124	

Outline in specific detail how your proposal will alter the program (include course number and title): **Curriculum in Engineering Physics**

Fall Start	
Freshman Fall Semester Add/Change: Delete: Total Hours:	Freshman Spring Semester Add/Change: **PHSC 1011** ✓ Delete: Social Sciences 3 hrs ✓ Total Hours: **15 hrs** ✓
Sophomore Fall Semester Add/Change: Delete: Total Hours:	Sophomore Spring Semester Add/Change: Elective 2 to 1 hour ✓ Delete: Total Hours: 15 ✓
Junior Fall Semester Add/Change: Delete: Total Hours:	Junior Spring Semester Add/Change: Delete: Total Hours:
Senior Fall Semester Add/Change: Social Sciences 3 hrs ✓ Delete: Total Hours: 16 hrs	Senior Spring Semester Add/Change: Delete: Total Hours:
Spring Start (If applicable)	
Freshman Spring Semester Add/Change: **PHSC 1011** ✓ Delete: Total Hours: **16 hrs** ✓	Freshman Fall Semester Add/Change: Delete: Total Hours:
Sophomore Spring Semester Add/Change: Delete: Total Hours:	Sophomore Fall Semester Add/Change: Elective 2 to 1 hour ✓ Delete: Total Hours: 15 ✓
Junior Spring Semester Add/Change: Delete: Total Hours:	Junior Fall Semester Add/Change: Delete: Total Hours:
Senior Spring Semester Add/Change: Delete: Total Hours:	Senior Fall Semester Add/Change: Delete: Total Hours:
Total Program Hours 124	