

# Enhance Medical Laboratory Science Curriculum Through Interprofessional Education (IPE)



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## Objectives

Define interprofessional education

Identify laboratory competencies recommended by laboratory preceptors for medical laboratory science (MLS) students.

Discuss service learning and interprofessional education strategies to address MLS competency recommendations.

Enhance MLS student knowledge, skills, and attitudes to improve patient care thru interprofessional education.

Provide opportunities for students to evaluate and discuss learning experiences from participation in collaborative practice models.

*"Tell me and I forget. Teach me and I remember.  
Involve me and I learn.*

*- Benjamin Franklin*

Play Time!

## Research Findings:

Medical laboratory science clinical educators identified four focus areas to enhance student competencies

1.

2.

3.

4.

## Two Strategies

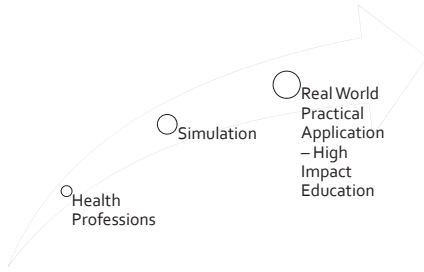
Service Learning

Inter-Professional Education

- What is service learning?

- What is interprofessional education?

## IPE Model



## Service Learning

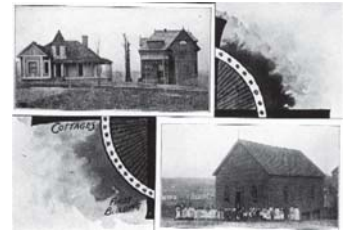
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## IPE

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_



*Enter to Learn, Depart to Serve*



WSSU 125<sup>th</sup> Anniversary  
...where curriculum meets community



## Service Learning and IPE Opportunities

- Student Health Center
- Health Fairs
- Mobile Unit
- Virtual Hospital
- Community Clinic

# A.H. Ray Student Health Center Scope of Practice/Student Evaluation



CLS 4206 A. H. Ray Student Health Center Objectives Daily Evaluation Worksheet

Student Name \_\_\_\_\_ Date \_\_\_\_\_

Objective Description	0	1	2	3	4	Comments/NA
<b>Cognitive Objectives</b>						
1. Accurately and correctly performs testing						
2. Correctly interprets results and instructions						
3. Makes appropriate and timely decisions based on provided information and results						
4. Follows procedure correctly and consistently						
5. Performs and records quality control, maintenance, troubleshooting as instructed						
6. Asks appropriate questions to understand concepts and instructions						
<b>Psychomotor Objectives</b>						
1. Uses expected level of manual dexterity and hand-eye coordination as pertains to lab activities						
2. Appropriate materials are obtained and used and clean disposal of or stored properly						
3. Results and information are recorded neatly and legible on appropriate forms and worksheets						
4. Specimens are accurately identified prior to testing						
5. Properly performs point of care testing						
6. Accurately identifies What Must Every coefficient						
7. Performs analysis accurately producing reliable results						
8. Identifies result inconsistencies and takes the proper steps to correct						
9. Equipment in vicinity of student is kept clean and stored securely						
10. PPE is used and disposed of correctly						
<b>Affective Objectives (continued on back)</b>						

Objective Description	0	1	2	3	4	Comments/NA
1. Dependability is exhibited (on time, responsible)						
2. Adheres to safety rules and protects safety of self and others						
3. Prepared for lab (has materials, book, knows what to expect)						
4. Reads instructions, listens to instructions, and does not rely on instructor to tell them each step of the routine (reads repeatedly)						
5. Questions asked show that student has read procedures and is only clarifying, not asking to be read for						
6. Shows initiative (finds ways to be involved, engaged, asks deeper questions)						
7. Accepts constructive criticism professionally and reacts professionally, acts on suggestions for improvement						
8. Respectful, courteous, teamwork						
9. Effective ability						
10. Self-confidence improvement						
11. Organization of materials, paperwork, time						
12. Integrity, does not cheat, admits mistakes and tries to correct them appropriately						
13. Flexibility and adaptability						
14. Handling of stress						

**Feedback and Extensive Comments Specific to this Lab\*:**  
\* Each instructor or student instructor (SIS) should initial or sign other comments

Working Date: 0 = not performed with 0 should have been done 1 = only once done needs further practicing  
2 = average but not really done well, needs practice or explanation to clarify for improvement  
3 = above average but not perfect, needs a little more practice or clarification  
4 = perfect or close to perfect for this level of training, keep up the good work!

Instructor/Supervisor Signature \_\_\_\_\_  
Date \_\_\_\_\_

# Health Fairs WSSU Athletic Department Sickle Cell Screening

# Mobile Unit



Provides integrated wellness services to reduce health disparities.

# WSSU Mobile Unit Interprofessional Teams Scope of Practice

Clinical Laboratory Science	Nursing
Exercise Science	Occupational Therapy
Health Care Management	Physical Therapy

# SELECTED MOBILE UNIT STATISTICS Fall 2010 to Present

Patient Service Area	Winston-Salem, NC underserved and diverse communities
Patient Visits	
Patient Visits Laboratory Testing	
Lipid Panel	
Glucose Testing	

## Students Experiences

## CLS 4206 Community Clinical Experience Fall 2010 - present

- COURSE DESCRIPTION
- SYLLABUS
- LEARNING RUBRIC
- STUDENT ASSESSMENT FORM
- FINAL PROJECT GUIDE

## Community Clinic Scope of Practice



## Community Clinic Student Experiences

## SERVICE LEARNING & IPE Student Learning Outcomes

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_



Department of Laboratory Sciences

ABOUT OUR PROGRAM

## UAMS Service Learning & Inter-professional Education

### Service Learning Opportunities at UAMS

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

### Institutional Mandate for IPE - Fall 2015

#### Institutional Design

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_



## Inter-professional Training and Service Learning Options

- Laboratory Sciences Student Association
- 12<sup>th</sup> Street Health And Wellness Center
- Women's Night (Cytology Students)
- Diabetes Awareness

## 12<sup>th</sup> Street *Health and Wellness Center*

### IPE TEAMS:

College of Health Professions

College of Nursing

College of Medicine

College of Pharmacy

UALR



## Selected CLIA waived testing performed

Comprehensive Metabolic Panels  
 Lipid Panels  
 Urinalysis  
 Liver Panels  
 Strep Group A testing  
 A<sub>1</sub>C

## Team Presentation to Preceptors

"Having the opportunity to run lab equipment early in the semester and presenting with other students to the preceptors. Gave me insight into my professional career".

### SELECTED 12st Health and Wellness Laboratory Fall 2014 to Present

Patient Service Area	Little Rock AR, underserved and diverse communities
Patient Visits	
Patient Laboratory Testing	
Lipid Panel	
A1c	

## Student "Quotes"

## Post Service Learning Survey

Question	Strongly Disagree	Disagree	Slightly Disagree	Neutral	Slightly Agree	Agree	Strongly Agree
	1	2	3	4	5	6	7
Did the service learning experiences of this course show you how you can become more involved in your community?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Did the service learning experiences of this course help you to have a better understanding of cultural diversity?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Did the service learning experience of this course help you to have a better understanding of this course and other CLS course materials and lectures?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Did the service learning experiences help you to have a better understanding of the laboratory practices and procedures of this course and other CLS laboratory courses?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Did the service learning experiences help you developing critical thinking skills?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Did the service learning experiences help you gain interpersonal and interdisciplinary teambuilding skills?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Did the service learning experiences help you improve analytical skills?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



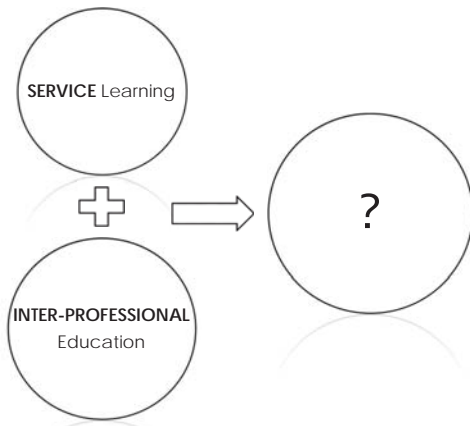
Combined Result of Post Survey



## Future Plans

Service Learning

IPE



\_\_\_\_\_ in Practice

## Summary

how  
where  
when  
why  
what  
whose  
who

ANY  
QUESTIONS  
?

and

Thank  
you

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