

# **Course Student Learning Outcomes Assessment**

**BIOL 149 Human Anatomy and Physiology**

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## **General Information (Course Student Learning Outcomes Assessment)**

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# Standing Requirements

## Course Description

Human anatomy and physiology stressing the interrelationships between normal structure and function. Designed for students in the allied health sciences particularly those desiring the 2-year RN degree. May not meet requirements for physical education or BSN majors.

## Course Student Learning Outcomes

### BIOL 149 Human Anatomy and Physiology Outcome Set

Outcome	
Outcome	Mapping
Outcome 1 Appropriately apply anatomical and directional terminology commonly used in the medical profession to body structures.	<b>Institutional Student Learning Outcomes:</b> Communicate 1, Communicate 2, Learn 1, Think 1
Outcome 2 Demonstrate a coherent understanding of the relationship between tissues, organs, and organ systems from a structural and functional perspective.	<b>Institutional Student Learning Outcomes:</b> Communicate 1, Communicate 2, Learn 1, Think 1
Outcome 3 Properly utilize and care for laboratory equipment following conventional procedures.	<b>Institutional Student Learning Outcomes:</b> Act 2, Communicate 3, Learn 1, Learn 3

## 2014-2015 Assessment Cycle

### Measurements

#### Outcomes and Measures

#### BIOL 149 Human Anatomy and Physiology Outcome Set

##### Outcome

###### Outcome 1

Appropriately apply anatomical and directional terminology commonly used in the medical profession to body structures.

▼ **Measure:** Means of assessment 149  
Course level; Direct - Exam

**Description of Measurement Tool:** Three multiple-choice questions will be inserted into various lecture exams.

**Criteria for Success: Individual & Collective Student Criterion:** 70% of the students, on average, should be able to answer the questions correctly.

**Cycle of Assessment:** Spring 2016

**Who is Responsible for Assessment Activity?:** Biology faculty currently teaching the course.

###### Outcome 2

Demonstrate a coherent understanding of the relationship between tissues, organs, and organ systems from a structural and functional perspective.

▼ **Measure:** Means of assessment 149  
Course level; Direct - Exam

**Description of Measurement Tool:** Three multiple-choice questions will be inserted into various lecture exams.

**Criteria for Success: Individual & Collective Student Criterion:** 70% of the students, on average, should be able to answer the questions correctly.

**Cycle of Assessment:** Spring 2017

**Who is Responsible for Assessment Activity?:** Biology faculty currently teaching the course.

###### Outcome 3

Properly utilize and care for laboratory equipment following conventional procedures.

▼ **Measure:** Means of assessment 149  
Course level; Direct - Exam

**Description of Measurement Tool:** One question will be inserted into a lab practical exam.

**Criteria for Success: Individual & Collective Student Criterion:** 70% of the students, on average, should be able to answer the question correctly.

**Cycle of Assessment:** Spring 2015

**Who is Responsible for Assessment Activity?:** Biology faculty currently teaching the course.

### Findings

#### Finding per Measure

#### BIOL 149 Human Anatomy and Physiology Outcome Set

##### Outcome

**Outcome 1**

Appropriately apply anatomical and directional terminology commonly used in the medical profession to body structures.

▼ **Measure:** Means of assessment 149  
Course level; Direct - Exam

**Description of Measurement Tool:** Three multiple-choice questions will be inserted into various lecture exams.

**Criteria for Success: Individual & Collective Student Criterion:** 70% of the students, on average, should be able to answer the questions correctly.

**Cycle of Assessment:** Spring 2016

**Who is Responsible for Assessment Activity?:** Biology faculty currently teaching the course.

**Findings** for Means of assessment 149

*No Findings Added*

**Outcome 2**

Demonstrate a coherent understanding of the relationship between tissues, organs, and organ systems from a structural and functional perspective.

▼ **Measure:** Means of assessment 149  
Course level; Direct - Exam

**Description of Measurement Tool:** Three multiple-choice questions will be inserted into various lecture exams.

**Criteria for Success: Individual & Collective Student Criterion:** 70% of the students, on average, should be able to answer the questions correctly.

**Cycle of Assessment:** Spring 2017

**Who is Responsible for Assessment Activity?:** Biology faculty currently teaching the course.

**Findings** for Means of assessment 149

*No Findings Added*

**Outcome 3**

Properly utilize and care for laboratory equipment following conventional procedures.

▼ **Measure:** Means of assessment 149  
Course level; Direct - Exam

**Description of Measurement Tool:** One question will be inserted into a lab practical exam.

**Criteria for Success: Individual & Collective Student Criterion:** 70% of the students, on average, should be able to answer the question correctly.

**Cycle of Assessment:** Spring 2015

**Who is Responsible for Assessment Activity?:** Biology faculty currently teaching the course.

**Findings** for Means of assessment 149

**Summary of Findings:** In a sample of 32 students, 23 of those students answered the question correctly (71.8%)

**Results:** Criteria for Success Achievement Status: Met

**Analysis of Findings:** Acceptable levels were received.

**Recommendations:** This is the second semester that this question was used to assess the SLO. We will use this question again in order to receive a larger sample size and we can be confident of this assessment.

## Overall Recommendations

*No text specified*

## Plans of Action

### Actions

## Status Reports

### Action Statuses

### Status Summary

*No text specified*

### Summary of Next Steps

*No text specified*

## 2013-2014 Assessment Cycle

### Measurements

#### Outcomes and Measures

#### BIOL 149 Human Anatomy and Physiology Outcome Set

##### Outcome

###### Outcome 1

Appropriately apply anatomical and directional terminology commonly used in the medical profession to body structures.

▼ **Measure:** Means of assessment 149  
Course level; Direct - Exam

**Description of Measurement Tool:** Three multiple-choice questions will be inserted into various lecture exams.

**Criteria for Success: Individual & Collective Student Criterion:** 65% of the students should be able to correctly answer a "C" question, 20% of the students should be able to answer a "B" question, and 10% of the students should be able to answer an "A" question.

**Cycle of Assessment:** Fall 2013

**Who is Responsible for Assessment Activity?:** Biology faculty currently teaching the course.

###### Outcome 2

Demonstrate a coherent understanding of the relationship between tissues, organs, and organ systems from a structural and functional perspective.

▼ **Measure:** Means of assessment 149  
Course level; Direct - Exam

**Description of Measurement Tool:** Three multiple choice questions were inserted into a lecture Exam.

**Criteria for Success: Individual & Collective Student Criterion:** 70% of the students should be able to answer it correctly.

**Cycle of Assessment:** Fall 2015

**Who is Responsible for Assessment Activity?:** Biology faculty currently teaching the course.

###### Outcome 3

Properly utilize and care for laboratory equipment following conventional procedures.

▼ **Measure:** Means of assessment 149  
Course level; Direct - Exam

**Description of Measurement Tool:** One question will be inserted into the Lab Practical.

**Criteria for Success: Individual & Collective Student Criterion:** 70% of the students should be able to answer it correctly.

**Cycle of Assessment:** Fall 2014

**Who is Responsible for Assessment Activity?:** Biology faculty currently teaching the course.

### Findings

#### Finding per Measure

#### BIOL 149 Human Anatomy and Physiology Outcome Set



## Outcome

### Outcome 1

Appropriately apply anatomical and directional terminology commonly used in the medical profession to body structures.

▼ **Measure:** Means of assessment 149  
Course level; Direct - Exam

**Description of Measurement Tool:** Three multiple-choice questions will be inserted into various lecture exams.

**Criteria for Success: Individual & Collective Student Criterion:** 65% of the students should be able to correctly answer a "C" question, 20% of the students should be able to answer a "B" question, and 10% of the students should be able to answer an "A" question.

**Cycle of Assessment:** Fall 2013

**Who is Responsible for Assessment Activity?:** Biology faculty currently teaching the course.

#### Findings for Means of assessment 149

**Summary of Findings:** Sample size of 20 students.

For my "C" question I received 15/20 correct answers (75%)

For my "B" question I received 9/20 correct answers (45%)

For my "A" question I received 7/20 correct answers (35%)

**Results:** Criteria for Success Achievement Status: Met

**Analysis of Findings:** My benchmark for this class, for a satisfactory passing grade, is 70%. I received acceptable levels of understanding at a level of 75% correct for the class.

**Recommendations:** This is the 2nd semester I have looked at these questions in terms of assessing this SLO. I would like to use the questions again for another semester in order to receive a larger sample size so I can be confident of this assessment.

### Outcome 2

Demonstrate a coherent understanding of the relationship between tissues, organs, and organ systems from a structural and functional perspective.

▼ **Measure:** Means of assessment 149  
Course level; Direct - Exam

**Description of Measurement Tool:** Three multiple choice questions were inserted into a lecture Exam.

**Criteria for Success: Individual & Collective Student Criterion:** 70% of the students should be able to answer it correctly.

**Cycle of Assessment:** Fall 2015

**Who is Responsible for Assessment Activity?:** Biology faculty currently teaching the course.

#### Findings for Means of assessment 149

*No Findings Added*

### Outcome 3

Properly utilize and care for laboratory equipment following conventional procedures.

▼ **Measure:** Means of assessment 149  
Course level; Direct - Exam

**Description of Measurement Tool:** One question will be inserted into the Lab Practical.

**Criteria for Success: Individual & Collective Student Criterion:** 70% of the students should be able to answer it correctly.

**Cycle of Assessment:** Fall 2014

**Who is Responsible for Assessment Activity?:** Biology faculty currently teaching the course.

**Findings** for Means of assessment 149

*No Findings Added*

**Overall Recommendations**

*No text specified*

 **Plans of Action**

 **Status Reports**

## 2012-2013 Assessment Cycle

### Measurements

#### Outcomes and Measures

#### BIOL 149 Human Anatomy and Physiology Outcome Set

##### Outcome

###### Outcome 2

Demonstrate a coherent understanding of the relationship between tissues, organs, and organ systems from a structural and functional perspective.

▼ **Measure:** Biology 149 SLO 2  
Course level; Direct - Exam

**Description of Measurement Tool:** Three multiple choice questions were inserted into a lecture Exam.

**Criteria for Success: Individual & Collective Student Criterion:** 70% of the students should be able to answer it correctly.

**Cycle of Assessment:** Spring 2014

**Who is Responsible for Assessment Activity?:** Mark Smith

### Findings

#### Finding per Measure

#### BIOL 149 Human Anatomy and Physiology Outcome Set

##### Outcome

###### Outcome 2

Demonstrate a coherent understanding of the relationship between tissues, organs, and organ systems from a structural and functional perspective.

▼ **Measure:** Biology 149 SLO 2  
Course level; Direct - Exam

**Description of Measurement Tool:** Three multiple choice questions were inserted into a lecture Exam.

**Criteria for Success: Individual & Collective Student Criterion:** 70% of the students should be able to answer it correctly.

**Cycle of Assessment:** Spring 2014

**Who is Responsible for Assessment Activity?:** Mark Smith

##### Findings for Biology 149 SLO 2

**Summary of Findings:** Sample size of 12 students.

Question 1: received 10/12 correct responses (83%)

Question 2: received 11/12 correct responses (92%)

Question 3: received 10/12 correct responses (83%)


**Results:** Criteria for Success Achievement Status: Met

**Analysis of Findings:** I received acceptable levels of understanding for all questions. Since my

sample size was very small, I will reuse the same questions from semester to semester in order to see any improvement by the students.

**Recommendations:** I will repeat this exact assessment next Fall 2015 to receive a larger sample size.

**Substantiating Evidence:**

 149 SLO-2 Assessment Report F12.doc (Microsoft Word) (See appendix)

## Overall Recommendations

I need to repeat this SLO assessment for a larger sample size.

## Plans of Action

### Actions

#### BIOL 149 Human Anatomy and Physiology Outcome Set

##### Outcome

##### Outcome 2

Demonstrate a coherent understanding of the relationship between tissues, organs, and organ systems from a structural and functional perspective.

▼ **Action:** Biology 149; Plan of action, SLO 2

**This Action is associated with the following Findings**

No supporting Findings have been linked to this Action.

**Details of Plan of Action:** I will repeat this exact assessment next Fall 2015 to receive a larger sample size.

**Plan of Action Timeline:** I will reassess this SLO in Fall 2015.

**Who is responsible for carrying out the Plan of Action?:** Mark Smith

**How will you determine if the Plan of Action has been effective?:** If the students have meet our 70% correct expectations.

**Additional Resources Required (if any):**

**Budget request amount:** \$0.00

**Priority:** Low

## Status Reports

### Action Statuses

#### BIOL 149 Human Anatomy and Physiology Outcome Set

##### Outcome

##### Outcome 2

Demonstrate a coherent

▼ **Action:** Biology 149; Plan of action, SLO 2

understanding of the relationship between tissues, organs, and organ systems from a structural and functional perspective.

**Details of Plan of Action:** I will repeat this exact assessment next Fall 2015 to receive a larger sample size.

**Plan of Action Timeline:** I will reassess this SLO in Fall 2015.

**Who is responsible for carrying out the Plan of Action?:** Mark Smith

**How will you determine if the Plan of Action has been effective?:** If the students have meet our 70% correct expectations.

**Additional Resources Required (if any):**

**Budget request amount:** \$0.00

**Priority:** Low

**Status** for Biology 149; Plan of action, SLO 2

**Current Status:** Not started

**Budget Status:** Other

**Explanation of current status:**

**Has the Plan of Action been effective? What are the next steps?:**

### Status Summary

*No text specified*

### Summary of Next Steps

*No text specified*

# Appendix

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A. **149 SLO-2 Assessment Report F12.doc** (Microsoft Word)

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