

WTCS Repository

10-806-198 Human Biology

Course Outcome Summary

Course Information

Description This is an introductory course that emphasizes the structure of the human body and the functional interrelationships of the body's systems. Consideration is given to the human body and disease, human genetics, human ecology, and the role that humans play in the environment. The course consists of 3 hours of lecture and 2 hours of lab per week. Note: This course does not meet requirements for or substitute for General Anatomy and Physiology or Anatomy & Physiology I and II.

Total Credits 4.00

Course Competencies

1. Explore the hierarchical organization of life.

Assessment Strategies

- 1.1. Written Product
- 1.2. Written Objective Test
- 1.3. Lab practical

Criteria

You will know you are successful when:

- 1.1. Pass lab practical according to criteria established by instructor
- 1.2. Written product shows evidence of logical critical thinking
- 1.3. Written product follows prescribed format, meeting criteria for all components
- 1.4. Written product exhibits correct and appropriate grammar, punctuation, spelling, syntax, and word usage
- 1.5. Evidence selecting and using information to investigate a point of view or conclusion
- 1.6. Sees (makes) connections across disciplines, perspectives
- 1.7. Adapts and applies skills, abilities, theories, or methodologies gained in one situation to new situations

2. Summarize cell structure and function, including organization as different tissues.

Assessment Strategies

- 2.1. Written Product
- 2.2. Written Objective Test
- 2.3. Lab practical

Criteria

You will know you are successful when:

- 2.1. Pass lab practical according to criteria established by instructor
- 2.2. Written product shows evidence of logical critical thinking
- 2.3. Written product follows prescribed format, meeting criteria for all components
- 2.4. Written product exhibits correct and appropriate grammar, punctuation, spelling, syntax, and word usage
- 2.5. Evidence selecting and using information to investigate a point of view or conclusion
- 2.6. Sees (makes) connections across disciplines, perspectives
- 2.7. Adapts and applies skills, abilities, theories, or methodologies gained in one situation to new situations

3. Examine the structure and functions of the integumentary system.

Assessment Strategies

- 3.1. Written Product
- 3.2. Written Objective Test
- 3.3. Lab practical

Criteria

You will know you are successful when:

- 3.1. Lab practical passed according to criteria established by instructor
- 3.2. Written product shows evidence of logical critical thinking
- 3.3. Written product follows prescribed format, meeting criteria for all components
- 3.4. Written product exhibits correct and appropriate grammar, punctuation, spelling, syntax, and word usage
- 3.5. Evidence selecting and using information to investigate a point of view or conclusion
- 3.6. Sees (makes) connections across disciplines, perspectives
- 3.7. Adapts and applies skills, abilities, theories, or methodologies gained in one situation to new situations

4. Investigate the structures of the cardiovascular system, including function and location.

Assessment Strategies

- 4.1. Written Product
- 4.2. Written Objective Test
- 4.3. Lab practical

Criteria

You will know you are successful when:

- 4.1. Lab practical passed according to criteria established by instructor
- 4.2. Written product shows evidence of logical critical thinking
- 4.3. Written product follows prescribed format, meeting criteria for all components
- 4.4. Written product exhibits correct and appropriate grammar, punctuation, spelling, syntax, and word usage
- 4.5. Evidence selecting and using information to investigate a point of view or conclusion
- 4.6. Sees (makes) connections across disciplines, perspectives
- 4.7. Adapts and applies skills, abilities, theories, or methodologies gained in one situation to new situations

5. Explore the mechanisms for defense of the body.

Assessment Strategies

- 5.1. Written Product
- 5.2. Written Objective Test
- 5.3. Lab practical

Criteria

You will know you are successful when:

- 5.1. Lab practical passed according to criteria established by instructor
- 5.2. Written product shows evidence of logical critical thinking
- 5.3. Written product follows prescribed format, meeting criteria for all components
- 5.4. Written product exhibits correct and appropriate grammar, punctuation, spelling, syntax, and word usage
- 5.5. Evidence selecting and using information to investigate a point of view or conclusion
- 5.6. Sees (makes) connections across disciplines, perspectives
- 5.7. Adapts and applies skills, abilities, theories, or methodologies gained in one situation to new situations

6. Examine the structures of the digestive system, including function and location.

Assessment Strategies

- 6.1. Written Product
- 6.2. Written Objective Test
- 6.3. Lab practical

Criteria

You will know you are successful when:

- 6.1. Lab practical passed according to criteria established by instructor
- 6.2. Written product shows evidence of logical critical thinking
- 6.3. Written product follows prescribed format, meeting criteria for all components
- 6.4. Written product exhibits correct and appropriate grammar, punctuation, spelling, syntax, and word usage
- 6.5. Evidence selecting and using information to investigate a point of view or conclusion
- 6.6. Sees (makes) connections across disciplines, perspectives
- 6.7. Adapts and applies skills, abilities, theories, or methodologies gained in one situation to new situations

7. Examine the structures of the respiratory system, including function and location.

Assessment Strategies

- 7.1. Written Product
- 7.2. Written Objective Test
- 7.3. Lab practical

Criteria

You will know you are successful when:

- 7.1. Lab practical passed according to criteria established by instructor
- 7.2. Written product shows evidence of logical critical thinking
- 7.3. Written product follows prescribed format, meeting criteria for all components
- 7.4. Written product exhibits correct and appropriate grammar, punctuation, spelling, syntax, and word usage
- 7.5. Evidence selecting and using information to investigate a point of view or conclusion
- 7.6. Sees (makes) connections across disciplines, perspectives
- 7.7. Adapts and applies skills, abilities, theories, or methodologies gained in one situation to new situations

8. Examine the structures of the urinary system, including function and location.

Assessment Strategies

- 8.1. Written Product
- 8.2. Written Objective Test
- 8.3. Lab practical

Criteria

You will know you are successful when:

- 8.1. Lab practical passed according to criteria established by instructor
- 8.2. Written product shows evidence of logical critical thinking
- 8.3. Written product follows prescribed format, meeting criteria for all components
- 8.4. Written product exhibits correct and appropriate grammar, punctuation, spelling, syntax, and word usage
- 8.5. Evidence selecting and using information to investigate a point of view or conclusion
- 8.6. Sees (makes) connections across disciplines, perspectives
- 8.7. Adapts and applies skills, abilities, theories, or methodologies gained in one situation to new situations

9. Examine the structures of the musculoskeletal system, including function and location.

Assessment Strategies

- 9.1. Written Product
- 9.2. Written Objective Test
- 9.3. Lab practical

Criteria

You will know you are successful when:

- 9.1. Lab practical passed according to criteria established by instructor
- 9.2. Written product shows evidence of logical critical thinking
- 9.3. Written product follows prescribed format, meeting criteria for all components
- 9.4. Written product exhibits correct and appropriate grammar, punctuation, spelling, syntax, and word usage
- 9.5. Evidence selecting and using information to investigate a point of view or conclusion
- 9.6. Sees (makes) connections across disciplines, perspectives
- 9.7. Adapts and applies skills, abilities, theories, or methodologies gained in one situation to new situations

10. Examine the structures of the nervous system and sense organs, including function and location.

Assessment Strategies

- 10.1. Written Product
- 10.2. Written Objective Test
- 10.3. Lab practical

Criteria

You will know you are successful when:

- 10.1. Lab practical passed according to criteria established by instructor
- 10.2. Written product shows evidence of logical critical thinking
- 10.3. Written product follows prescribed format, meeting criteria for all components
- 10.4. Written product exhibits correct and appropriate grammar, punctuation, spelling, syntax, and word usage
- 10.5. Evidence selecting and using information to investigate a point of view or conclusion
- 10.6. Sees (makes) connections across disciplines, perspectives
- 10.7. Adapts and applies skills, abilities, theories, or methodologies gained in one situation to new situations

11. Examine the structures of the endocrine system, including function and location.

Assessment Strategies

- 11.1. Written Product
- 11.2. Written Objective Test
- 11.3. Lab practical

Criteria

You will know you are successful when:

- 11.1. Lab practical passed according to criteria established by instructor
- 11.2. Written product shows evidence of logical critical thinking
- 11.3. Written product follows prescribed format, meeting criteria for all components
- 11.4. Written product exhibits correct and appropriate grammar, punctuation, spelling, syntax, and word usage
- 11.5. Evidence selecting and using information to investigate a point of view or conclusion
- 11.6. Sees (makes) connections across disciplines, perspectives
- 11.7. Adapts and applies skills, abilities, theories, or methodologies gained in one situation to new situations

12. Examine the structures of the reproductive system, including function and location.

Assessment Strategies

- 12.1. Written Product
- 12.2. Written Objective Test
- 12.3. Lab practical

Criteria

You will know you are successful when:

- 12.1. Lab practical passed according to criteria established by instructor
- 12.2. Written product shows evidence of logical critical thinking
- 12.3. Written product follows prescribed format, meeting criteria for all components
- 12.4. Written product exhibits correct and appropriate grammar, punctuation, spelling, syntax, and word usage
- 12.5. Evidence selecting and using information to investigate a point of view or conclusion
- 12.6. Sees (makes) connections across disciplines, perspectives
- 12.7. Adapts and applies skills, abilities, theories, or methodologies gained in one situation to new situations

13. Investigate factors related to human genetics and inheritance.

Assessment Strategies

- 13.1. Written Product
- 13.2. Written Objective Test
- 13.3. Lab practical

Criteria

You will know you are successful when:

- 13.1. Lab practical passed according to criteria established by instructor
- 13.2. Written product shows evidence of logical critical thinking
- 13.3. Written product follows prescribed format, meeting criteria for all components
- 13.4. Written product exhibits correct and appropriate grammar, punctuation, spelling, syntax, and word usage
- 13.5. Evidence selecting and using information to investigate a point of view or conclusion
- 13.6. Sees (makes) connections across disciplines, perspectives
- 13.7. Adapts and applies skills, abilities, theories, or methodologies gained in one situation to new situations

14. Explore factors related to cancer.

Assessment Strategies

- 14.1. Written Objective Test
- 14.2. Written Product

Criteria

You will know you are successful when:

- 14.1. Written product shows evidence of logical critical thinking
- 14.2. Written product follows prescribed format, meeting criteria for all components
- 14.3. Written product exhibits correct and appropriate grammar, punctuation, spelling, syntax, and word usage
- 14.4. Evidence selecting and using information to investigate a point of view or conclusion
- 14.5. Sees (makes) connections across disciplines, perspectives
- 14.6. Adapts and applies skills, abilities, theories, or methodologies gained in one situation to new situations

15. Summarize concepts relating global ecology and human actions.

Assessment Strategies

- 15.1. Written Objective Test
- 15.2. Written Product

Criteria

You will know you are successful when:

- 15.1. Written product shows evidence of logical critical thinking
- 15.2. Written product follows prescribed format, meeting criteria for all components
- 15.3. Written product exhibits correct and appropriate grammar, punctuation, spelling, syntax, and word usage
- 15.4. Evidence selecting and using information to investigate a point of view or conclusion
- 15.5. Sees (makes) connections across disciplines, perspectives
- 15.6. Adapts and applies skills, abilities, theories, or methodologies gained in one situation to new situations