

Syllabus for
BIO 259—Scientific Terminology
2.0 Credit Hour
Spring 2013

I. COURSE DESCRIPTION

Studies Greek and Latin word roots, prefixes, and suffixes commonly used in biology, science, medicine, dentistry, pharmacy, and other health professions.

Prerequisite: Permission of instructor.

II. COURSE GOALS

This course is designed to enable the student to do the following:

- A. Learn the fundamental principles for recognizing, analyzing, and building scientific words of Greek and Latin origin.
- B. Increase reading comprehension of biological and medical materials.

III. STUDENT LEARNING OUTCOMES FOR THIS COURSE

As a result of successfully completing this course, the student will be able to demonstrate the ability to analyze and build scientific words based on the Greek and Latin word roots, prefixes and suffixes presented in each lesson.

IV. TEXTBOOK AND OTHER LEARNING RESOURCES

Required Textbooks

- A. Leonard, Peggy C. 2005 (6th ed). Building a Medical Vocabulary packaged with Mosby's Dictionary of Medicine, Nursing & Health Professions (7th ed). St. Louis: Elsevier Saunders. ISBN 1416034390.
- B. Medical Terms: Basics. Six page chart from www.barcharts.com ISBN 9781572225381.

V. POLICIES AND PROCEDURES

- A. University Policies and Procedures
 1. Attendance at each class or laboratory is mandatory at Oral Roberts University. Excessive absences can reduce a student's grade or deny credit for the course.
 2. Students taking a late exam because of an unauthorized absence are charged a late exam fee.
 3. Students and faculty at Oral Roberts University must adhere to all laws addressing the ethical use of others' materials, whether it is in the form of print, electronic, video, multimedia, or computer software. Plagiarism and other forms of cheating involve both lying and stealing and are violations of ORU's Honor Code: "I will not cheat or plagiarize; I will do my own academic work and will not inappropriately collaborate with other students on assignments." Plagiarism is usually defined as copying someone else's ideas, words, or sentence structure and submitting them as

one's own. Other forms of academic dishonesty include (but are not limited to) the following:

- a. Submitting another's work as one's own or colluding with someone else and submitting that work as though it were his or hers;
- b. Failing to meet group assignment or project requirements while claiming to have done so;
- c. Failing to cite sources used in a paper;
- d. Creating results for experiments, observations, interviews, or projects that were not done;
- e. Receiving or giving unauthorized help on assignments.

By submitting an assignment in any form, the student gives permission for the assignment to be checked for plagiarism, either by submitting the work for electronic verification or by other means. Penalties for any of the above infractions may result in disciplinary action including failing the assignment or failing the course or expulsion from the University, as determined by department and University guidelines.

4. Final exams cannot be given before their scheduled times. Students need to check the final exam schedule before planning return flights or other events at the end of the semester.
5. Students are to be in compliance with University, school, and departmental policies regarding the Whole Person Assessment requirements. Students should consult the Whole Person Assessment handbooks for requirements regarding general education and the students' majors.
 - a. The penalty for not submitting electronically or for incorrectly submitting an artifact is a zero for that assignment.
 - b. By submitting an assignment, the student gives permission for the assignment to be assessed electronically.

B. Course Policies and Procedures

1. Evaluation Procedures

Grading as follows:

Two 2-3 person Student Panel Discussions (2 x 125 pts.) 250

(Bring typed handout to professor prior to Panel day or make copies for other students.)

One Essay about Field Trip Experience (50 pts) 50

One In-class Exam (Exam 1) 100

Two Take-home Exams (Exams 2 & 3) (2 x 100 pts) 200

Five In-class Quizzes (5 x 20 pts) 100

Two Individual Student Presentations (2 x 125 pts) 250

(Bring CD-ROM to instructor prior to Presentation day or make copies for other students.)

One Cumulative Final 200

TOTAL POINTS 1150

90-100	=	A
80-89.5	=	B
70-79.5	=	C
60-69.5	=	D
59.5 and below	=	F

2. Whole Person Assessment Requirements
None

VI. COURSE CALENDAR

WEEK	TOPIC	READING
1	Why do we use Greek and Latin? Why we use an etymological approach? SIGN-UP FOR PANELS & PRESENTATIONS	
2 Student Panel 1 Student Panel 2	Classification of Life: Kingdom, Phylum, Class, Order, Family, Genus, Species; Binomial Names Plant Kingdom: Nonvascular & Vascular Plants	Use biology textbooks for student panels on biological terms; Student panel
3 Video Student Panel 3	Systematics: Taxonomy & Phylogeny Invertebrates	Handout; Video: <i>Classification of Living Things Series: Plants & Animals</i> Use biology textbooks for student panels on biological terms; Student panel
4 Student Panel 4 Student Panel 5	Fish, Amphibians, Reptiles & Birds Mammals, except Primates	Use biology textbooks for student panels on biological terms; Student panel
5 Student Panel 6	Nonhuman Primates Exam 1: Take-home on Biological Terms Reports on Field trip to <i>Tulsa Garden Center</i> or <i>Tulsa Zoo</i> or other site (Essay about experience due)	Use biology textbooks for student panels on biological terms; Student panel Student reports
6	Introduction to Medical Terms Building Medical Terms Number, Position, Color, Size, Shape, Number	Chs. 1-3 Ch. 5
7	Building Terms about Diseases & Disorders	Ch. 4

	Body's Organization	Ch. 6
WEEK	TOPIC	READING
8 Student Presentation 1 Student Presentation 2	Quiz 1 Chs. 1-6 Body Fluids & Immune System Integumentary System	Ch. 7 Student Presentation Ch. 16 Student Presentation
9 Student Presentation 3 Student Presentation 4	Musculoskeletal System Skeletal & Muscle Pathologies & Interventions	Ch. 14 Student Presentation Ch. 14 Student Presentation
10 Student Presentation 5 Student Presentation 6	Quiz 2 on Ch. 14, 16 Cardiovascular System Lymphatic Systems	Ch. 8 Student Presentation Ch. 8 Student Presentation
11 SPRING BREAK		
12 Student Presentation 7	Respiratory System Quiz 3 on Ch. 7-9, Review Exam 2: Take-home Exam on Ch. 4-9	Ch. 9 Student Presentation
13 Student Presentation 8 Student Presentation 9	Digestive System Endocrine System	Ch. 10 Student Presentation Ch. 17 Student Presentation
14 Student Presentation 10 Student Presentation 11	Urinary System Quiz 4 on Ch. 10, 17 Female Reproductive System	Ch. 11 Student Presentation Ch. 12 Student Presentation
15 Student Presentation 12 Student Presentation 13	Male Reproductive System Nervous System	Ch. 12 Student Presentation Ch. 15 Student Presentation
16 Student Presentation 14	The Eye & Ear Quiz 5 on Ch. 11, 12, 15 Exam 3: Take-home Exam on Ch. 5-18 Review Refreshments	Ch. 15 Student Presentation

Course Inventory for ORU's Student Learning Outcomes

Scientific Terminology – BIO 259 Spring 2013

This course contributes to the ORU student learning outcomes as indicated below:

Significant Contribution – Addresses the outcome directly and includes targeted assessment.

Moderate Contribution – Addresses the outcome directly or indirectly and includes some assessment.

Minimal Contribution – Addresses the outcome indirectly and includes little or no assessment.

No Contribution – Does not address the outcome.

The Student Learning Glossary at <http://ir.oru.edu/doc/glossary.pdf> defines each outcome and each of the proficiencies/capacities.

OUTCOMES & Proficiencies/Capacities		Significant Contribution	Moderate Contribution	Minimal Contribution	No Contribution
1	Outcome #1 – Spiritually Alive Proficiencies/Capacities				
1A	Biblical knowledge			X	
1B	Sensitivity to the Holy Spirit			X	
1C	Evangelistic capability		X		
1D	Ethical behavior			X	
2	Outcome #2 – Intellectually Alert Proficiencies/Capacities				
2A	Critical thinking		X		
2B	Information literacy	X			
2C	Global & historical perspectives		X		
2D	Aesthetic appreciation			X	
2E	Intellectual creativity		X		
3	Outcome #3 – Physically Disciplined Proficiencies/Capacities				
3A	Healthy lifestyle			X	
3B	Physically disciplined lifestyle			X	
4	Outcome #4 – Socially Adept Proficiencies/Capacities				
4A	Communication skills		X		
4B	Interpersonal skills			X	
4C	Appreciation of cultural & linguistic differences		X		
4D	Responsible citizenship		X		
4E	Leadership capacity		X		