# **Syllabus/Course Outline**

# ***RCC Science Department***

# ***BI121(L) – Elementary Anatomy and Physiology I w/Lab, 4 credits***

# ***2023/2024***

**Instructor:** Your name

**Email:** Your email

**Phone:** Your phone number

**High School:** Your high school name

**Length of RCC Course:**

**LECTURE PORTION**: **3 credits:** A required State minimum of (30) and a standard RCC

delivery of (33) **lecture** hours

**LAB PORTION**: **1 credit:** A required State minimum of (30) and a standard RCC delivery of (33) **lab** hours

**Length of HS Course:**Length of your course (is. Semesters, trimesters, etc. If it takes 1 or 2

semesters to earn the RCC credit, please explain that here*.*

**Prerequisites:** MTH20 and WR90 or WR91 or designated placement score(s).

Recommended: MTH60 or MTH63

# **Course Description**

This is the first term of a two-term sequence. Students must be concurrently enrolled in the laboratory portion of this course. This course covers basic anatomy and physiology for Medical Office Assistant, Medical Health Technician, Message Therapy, Medical Assistant, Medical Transcription, and Practical Nursing. Topics covered include body organization, basic chemistry, cell structure and function, tissues, integumentary system, skeletal system, muscular system, and nervous system.

# **Required texts**

List required textbooks here

# **Other materials/supplies**

List any other required materials or supplies

# **Institutional Learning Outcomes**

Institutional Learning Outcomes (ILOs) are skills that will contribute to your success in life beyond RCC. Rogue’s ILOs are: Communication, Critical Thinking, Equity, Diversity, Inclusion, and Global Consciousness, Information Literacy, and Quantitative Literacy and Reasoning. Why are they important? Employers call these soft skills or employability skills. They may help you get and keep a job. These are skills that will help you complete a 4-year degree. They are skills for success in your life as a family member, worker, citizen, life-long learner, and more.

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| **Communication (COM)** | Students will engage in effective communication using active reading and listening skills and expressing ideas appropriately in oral, written, and visual work. |
| **Critical Thinking (CT)** | Students will explore, reach, and support appropriate conclusions through the analysis, synthesis, and evaluation of information and varying opinions. |
| **Equity, Diversity, Inclusion and Global Consciousness (EDI & GC)** | Students will recognize and identify equity, diversity, inclusion and global consciousness as it applies to people and the world today. |
| **Information Literacy (IL)** | Students will identify an information need and locate, evaluate, and use information effectively and ethically. |
| **Quantitative Literacy and Reasoning (QL & R)** | Students will reason through and solve quantitative problems by collecting and interpreting data, and applying mathematical/statistical techniques. |

# **Course Learning Outcomes**

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| **Course Learning Outcomes** | **ILO Key Indicators** |
| 1. Describe and identify specific terminology associated with body geography; surface and internal anatomy; and control systems. |  |
| 2. Describe histological tissue types by identification and function. |  |
| 3. Describe, identify structures, and apply knowledge of the integumentary system. |  |
| 4. Describe, identify structures, and apply knowledge of osseous tissue, bone structure, and the entire human skeleton. |  |
| 5. Describe, identify structures, and apply knowledge of the articulations and movements of the human body. |  |
| 6. Describe, identify structures, and apply knowledge of muscle tissue physiology and selected muscles of the human body. | Critical Thinking |
| 7. Describe, identify structures, and apply knowledge of the nervous system and sense organs, focusing on neuron anatomy, neurophysiology and anatomy of special sense organs. |  |

# **Learning Experiences**

*Describe what activities the students will engage in during class and outside of class to contribute to their learning; some examples: lecture, small-group work, reading, research, role play, etc.*

# **Grading Information**

*Include a description of the criteria for grading and the assessments that will comprise the grade for the course. Also include a statement about when students can expect to receive feedback on assignments, papers, tests, etc.*

# **RCC Grading**

Classes are graded A, B, C, D, F.

No tests can be retaken for the RCC grade that you receive for this class.

Courses taken for college credit will appear on a student’s permanent college transcript and will show the grade earned.

# **EXPECTATIONS FOR STUDENTS**

*Include any statements of expectations regarding homework, late work, etc.*

# **Attendance**

*Describe your policy on attendance and the consequences of missing class.*

* **Withdrawal from class:** A student may withdraw from a College Now class according to the schedule found on the College Now website:  <https://www.roguecc.edu/collegeNow/dualCredit_AcaCalendar.asp>. A grade of W will be assigned.  Students should be aware that withdrawing from a course may impact financial aid when they attend college after high school. To read about the impact withdrawing may have, please visit: <https://www.roguecc.edu/enrollmentServices/sap.asp>

# **Academic Integrity**

Academic Integrity is expected for all students at RCC. Learning is built on the qualities of honesty, fairness, respect, and trust. At RCC, academic integrity is a shared endeavor characterized by truth, personal responsibility, and high academic standards. An important aspect of academic integrity is academic honesty. Violations of academic honesty include, but are not limited to: plagiarism, collusion, inappropriate assistance, cheating, fabrication, falsification, alteration, unauthorized multiple submission, sabotage, tampering*, and sharing classroom documents, including test items, with other students or with online platforms*. All acts of academic dishonesty are regarded as serious offenses. Students who violate academic honesty or academic integrity will be subject to disciplinary action. Instructors have the right to act on any suspected acts of academic dishonesty. Depending on the nature of the offense, serious penalties may be imposed, ranging for loss of points to expulsion from the class or college.

# **Classroom Behavior**

Expectations for classroom behavior are outlined in the Standards of Student Conduct, available in the catalog, schedule, and online. Students may not engage in any activity which the instructor deems disruptive or counterproductive to the goals of the class. Instructors have the right to remove students from class for not following the Standards of Student Conduct or other specified classroom rules. Expectations for behavior in online classes are similar to what is required in the classroom.

**Student Evaluations of this Course**  
Students enrolled in College Now courses will receive a course evaluation to complete towards the end of the term for the courses they are enrolled in. The course evaluations are anonymous and will provide valuable feedback to RCC about your experiences in, and your impressions of, the course.

# **Access and Disability Resources**

High schools and colleges operate under different guidelines for students with disabilities. Students enrolled in RCC’s various dual credit programs must meet the college requirements to be eligible for the college credit. Reasonable adjustments in teaching methods and/or assessment delivery that do not alter the essential content of a course may be possible, but all students must meet the student learning outcomes and the assessment rigor of the course to be eligible for college credit.

Services for students who experience disabilities:

* High school students taking College Now classes taught by high school teachers at the high school are to work with their high school for accommodations or adjustments.
* High school students who also take RCC courses at an RCC campus should contact RCC’s Access Office.

Redwood Campus

Phone: 541-956-7337; Oregon Relay Service: 7-1-1

Riverside and Table Rock Campuses

Phone: 541-956-7337; Oregon Relay Service: 7-1-1

For more information, go to Access and Disability Resources: <https://web.roguecc.edu/disability-services> or email [AccessOffice@roguecc.edu](mailto:AccessOffice@roguecc.edu).

# **Discrimination, Harassment and Sexual Violence Policies**

Rogue Community College does not discriminate in any programs, activities, or employment practices on the basis of race, color, religion, ethnicity, use of native language, national origin, sex, sexual orientation, gender identity, marital status, veteran status, disability, age, pregnancy, or any other status protected under applicable federal, state, or local laws.

RCC is committed to providing an academic and work environment free from all forms of discrimination and harassment. In accordance with federal and state law, RCC prohibits illegal discrimination and harassment, works to inform individuals of their right to be free from such behaviors, and promotes the safety of all at College sites and activities. RCC’s prohibition includes all forms of sex discrimination--including instances of sexual harassment such as sexual assault, domestic violence, gender-based stalking, and sexual violence--which are also prohibited by Title IX of the Education Amendments of 1972.

For further policy information and for a full list of regulatory specific contact persons visit the following webpage: <http://www.roguecc.edu/nondiscrimination>

For further information regarding Title IX at RCC, go to <https://www.roguecc.edu/titleIX>/

# **Student Handbook**

Students should read and understand the Dual Credit Handbook for Students. There is important information covering many topics and most questions will be answered by reviewing this handbook. <https://www.roguecc.edu/HS/Handbooks/StudentHandbook.pdf>

# **Important RCC College Now Dates and Times**

The deadline to add a class, withdraw from a class, term end/start dates, and the dates grades are available are listed at <https://www.roguecc.edu/collegeNow/dualCredit_AcaCalendar.asp>

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| **Tutoring Center** Tutoring Centers provide free tutoring service if you are registered in credit courses at Rogue Community College. The primary areas of tutoring are math, writing and science; however, tutors are prepared to cover most subjects. There is also online tutoring available. Please visit the tutoring center webpage for more details: <https://www.roguecc.edu/dept/academicSuccess/tutor.asp> |

# **Course Outline**

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| **Week** | **Chapter(s)** | **Assignment/ Due date** |
| Week 1 |  |  |
| Week 2 |  |  |
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**\*\*Additionally, all students must complete a Rogue Community College Course Evaluation for the class. \*\***

# **TYPICAL COURSE CONTENT:**

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| **Lecture Topics** | **Concept Details** |
| Surface & Internal Anatomy and Body Geography | * Levels of organismal organization * Body cavities * Surface anatomy * Homeostasis |
| Chemistry | * Interpret periodic table of elements * Atomic structures * Contrast ionic, covalent and hydrogen bonds * Properties of water and the importance of water in life * pH scale and buffers * Contrast dehydration and hydrolysis reactions * Contrast and provide examples of carbohydrates, lipids, proteins and nucleic acids * Base-pairing rules for DNA and RNA * Structure and function of enzymes |
| Cells | * History and use of microscopy in the study of cells * Properties of phospholipids * Cellular transport mechanisms * Contrast eukaryotic and prokaryotic cells * Memorize selected cell structures and functions * Protein synthesis in the cell * Mitosis and meiosis * Describe the use of stem cells in research and clinical settings |
| Histology | * Epithelial Tissues * Connective Tissues * Body Membranes * Muscle Tissue * Nervous Tissue |
| Integumentary System | * Epidermis * Dermis * Accessory structures (hair, glands, nails) * Integumentary repair * Vitamin D production * Skin pathology and clinical applications |
| Skeletal System | * Skeletal system functions * Bone shape classification * Spongy vs compact bone structure and function * Bone histology * Hormonal calcium regulation and bone health * Bone fracture, repair, and aging * Memorize selected bone names and markings of the axial and appendicular skeleton |
| Articulations and Body Movements | * Classification of articulations based on structure and function * Synovial joint structure and associated accessory structures * Structure and function of representative joints (vertebral, shoulder, elbow, hip, knee) * Effects of aging and arthritis. |
| Muscular System | * Microscopic anatomy of skeletal muscle tissue * Excitation-contraction coupling * ATP sources for sustained contractions * Compare skeletal, smooth, and cardiac muscle tissue by structure and function * Memorize selected skeletal muscle names, actions, origins, and insertions. * Muscular system pathology and clinical applications |
| Nervous System | * Microscopic anatomy of neuron structure * Structure and function of neuroglia (CNS and PNS) * Generation and propagation of graded and action potentials * Synaptic activity * Anatomy of the spinal cord and spinal nerves * Memorize selected structures of the brain and their functions * Structure and function of spinal tracts * Nervous system pathology and clinical applications |
| Special Senses | * Contrast the autonomic and somatic nervous system functions * Identify and describe the anatomical components and nerve pathways of the sympathetic and parasympathetic divisions * Effects of aging on the nervous system and senses * Classification of general senses * Memorize the gross and microscopic anatomy of selected sense organs including touch receptors, ears, eyes and tongue. |

# **TYPICAL SEQUENCE OF LAB TOPICS**

Introduction to the Human Body

Chemistry

Cytology

Histology

Skin and Body Membranes

Skeletal Tissue

Muscular System

Nervous Tissue

Central and Peripheral Nervous Systems (CNS and PNS)

Special Senses