

**El Paso Community College**  
**Syllabus**  
**Part II**  
**Official Course Description**

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| <b>SUBJECT AREA</b>             | <u><b>Biology</b></u>  |
| <b>COURSE RUBRIC AND NUMBER</b> | <u><b>HPRS 2301</b></u>  |
| <b>COURSE TITLE</b>             | <u><b>Pathophysiology</b></u>  |
| <b>COURSE CREDIT HOURS</b>      | <u><b>3                    3                    0</b></u><br>Credits                    Lec                    Lab |

**I. Catalog Description**

Studies the pathology and general health management of diseases and injuries across the life span. Includes topics on etiology, symptoms, and the physical and psychological reactions to diseases and injuries.  
**Prerequisites: BIOL 2401 and BIOL 2402. (3:0).**

**II. Course Objectives**

Upon satisfactory completion of this course, the student will be able to:

- A. Explain in general terms, the structure, physiology and energetics of the generalized animal cell.
- B. Define cellular adaptation and describe the different types of cellular adaptation.
- C. List and briefly describe the different mechanisms of cell injury.
- D. Describe the process of tissue repair and wound healing.
- E. Describe the genetic control of cell structure and function. Compare and contrast the different patterns of inheritance.
- F. Identify the most common genetic, chromosomal and congenital disorders and their clinical manifestations.
- G. Describe the process of cell growth and reproduction and their relationship with the process of oncogenesis. Compare and contrast benign versus malignant neoplasias and discuss the proposed etiologic factors of cancer as well as the therapeutic possibilities.
- H. Identify and describe the normal physiology and the pathophysiology of the most common alterations of the following processes and body systems:
  - 1. Inflammation, immunity and lymphatic system.
  - 2. Integumentary system.
  - 3. Cardiovascular system (Blood, heart and blood vessels)
  - 4. Respiratory system.
  - 5. Fluids, electrolytes and acid-base balance.
  - 6. Urinary system.
  - 7. Endocrine system
  - 8. Nervous system.
  - 9. Musculo-Skeletal system.
  - 10. Male and female reproductive systems.

### III. THECB Learning Outcomes (WECM)

Upon successful completion of this course, students will:

1. Distinguish environmental factors, physical, psychosocial, and cognitive characteristics of various diseases and conditions.
2. Identify implications of therapeutic interventions for diseases and conditions.

### IV. Evaluation

**Exams:** The type and number of exams will be determined by the instructor. A minimum of four exams is recommended. Each exam must include a written portion in which the student will express relevant concepts. The remainder of the exam may consist of multiple choice, true/false, matching, fill-in-the-blank, drawings, labeling, etc. Take home exams are not recommended.

**Quizzes:** Number, frequency, and type of quizzes are left to the discretion of the instructor. The weight of the exams and quizzes is to be determined by the instructor.

Grading Scale:

|          |   |   |
|----------|---|---|
| 90-100   | = | A |
| 80-89    | = | B |
| 70-79    | = | C |
| 60-69    | = | D |
| Below 60 | = | F |

### V. Disability Statement (Americans with/Disabilities Act [ADA])

EPCC offers a variety of services to persons with documented sensory, mental, physical, or temporary disabling conditions to promote success in classes. If you have a disability and believe you may need services, you are encouraged to contact the Center for Students with Disabilities to discuss your needs with a counselor. All discussions and documentation are kept confidential. Offices located: VV Rm C-112 (831-2426); TM Rm 1400 (831-5808); RG Rm B-201 (831-4198); NWC Rm M-54 (831-8815); and MDP Rm A-125 (831-7024)

### VI. 6 Drop Rule

Students who began attending Texas public institutions of higher education for the first time during the Fall 2007 semester or later are subject to a 6-Drop limit for all undergraduate classes. Developmental, ESL, Dual Credit and Early College High School classes are exempt from this rule. All students should consult with their instructor before dropping a class. Academic assistance is available. Students are encouraged to see Counseling Services if dropping because exemptions may apply. Refer to the EPCC catalog and website for additional information.

### VII. Title IX and Sex Discrimination

Title 9 (20 U.S.C. 1681 & 34 C.F.R. Part 106) states the following "No person in the United States shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any educational program or activity receiving Federal financial assistance." The Violence Against Women Act (VAWA) prohibits stalking, date violence, sexual violence, and domestic violence for all students, employees and visitors (male and female). If you have any concerns related to discrimination, harassment, or assault (of any type) you can contact the Assistant to the Vice President for Student and Enrollment Services at 915-831-2655. Employees can call the Manager of Employee Relations at 915-831-6458. Reports of sexual assault/violence may also be reported to EPCC Police at 915-831-2200.