

**Course Number:** BIO 1210

**Course Title:** Human Disease & Basic Pharmacology

**Course Description:**

This course covers the basics of general pharmacology and human diseases for Health Information professionals including: signs, symptoms, etiology, and pathogenesis of a variety of human diseases from multiple systems; diagnostic steps and treatments for multiple human diseases; the use and category of pharmacological drugs to treat diseases; processes, actions, and side effects of medications.

**Prerequisites:** BIO 1110 or BIO 2710.

**Credit hours:** 3

**Learning Outcomes:**

Upon the successful completion of this course, students will be able to:

1. Explain different categories and transmission modes of human diseases
2. Determine factors involved in the etiology and pathogenesis of human diseases
3. Describe common diseases from human organ systems including lymphatic, immune, digestive, cardiovascular, respiratory, urinary, reproductive, muscular, skeletal, endocrine, nervous, and integumentary
4. Explain causes, progression, types, and treatments of cancer
5. Evaluate signs and symptoms of common diseases
6. Summarize procedures used in diagnosing diseases
7. Summarize modalities used to treat diseases
8. Explain the multiple branches of pharmacological sources, processes, and actions
9. List common medications used to treat diseases by organ system
10. Explain how various classifications of drugs act on organ systems
11. Summarize common adverse effects of medications

# INDIANA**TECH**

## *College of Professional Studies*

### **BIO 1210 Human Diseases & Pharmacology Online Course Syllabus**

#### **Instructor Information**

Please see Professor Profile at the Blackboard instructional site.

#### **Course Schedule**

Please see Course Schedule in the Syllabus & Schedule area of the Blackboard instructional site.

#### **Online Course Policies**

All of the online courses taken by students are required to follow the policies posted online at <http://online.indianatech.edu/tech-policies/policies/>. Please review the posted policies carefully. If you are unable to abide by the policies listed, please contact the Warrior Information Network (WIN) at 888.832.4742 and request to withdraw from this course.

#### **Textbook / Course Resources**

There are two eBooks utilized in this course, in addition to articles and other websites which supplement this material. Access information and citations are noted throughout the course for these resources.

Carolyn J. Gersch, Nicole M. Heimgartner, Cherie R. Rebar, and Laura M. Willis. (2016)  
Pharmacology Made Incredibly Easy! Wolters Kluwer Health.  
<https://ebookcentral.proquest.com/lib/indianatech-ebooks/detail.action?docID=5122307>

Stewart, J. (2018). Anatomical Chart Company Atlas of Pathophysiology. Wolters Kluwer Health.  
<https://indianatech.on.worldcat.org/search?databaseList=638&queryString=Anatomical+Chart+Company+Atlas+of+Pathophysiology#/oclc/1117902365>

Zelman, M., Tompary, E., Raymond, J., Holdaway, P., & Mulvihill, M.L. (2010). Human Diseases: A systemic approach (7th edition). Upper Saddle River, NJ: Prentice-Hall.

## Grading Events & Grading Criteria

Unless otherwise specified, all assignments must be submitted via Blackboard.

### Grading Events

| Week / Module | Description   | Points Possible |
|---------------|---|-----------------|
| 1             | Course Preparatoin Quiz                                     | 25              |
| 1             | Written Assignment: Concept Map – Etiology and Pathogenesis | 20              |
| 1             | Discussion Board Posts and Responses Module 1               | 25              |
| 1             | Module 1 Quiz   | 56              |
| 2             | Discussion Board Posts and Responses Module 2               | 25              |
| 2             | Written Assignment: Article Summary                         | 25              |
| 2             | Written Assignment: Case Study – Heart Attack               | 25              |
| 2             | Module 2 Quiz A   | 64              |
| 2             | Module 2 Quiz B   | 50              |
| 2             | Module 2 Quiz C   | 56              |
| 3             | Written Assignment – Case Study - Bob                       | 25              |
| 3             | Written Assignment – Case Study - Harry                     | 25              |
| 3             | Written Assignment – Case Study - Marshall                  | 25              |
| 3             | Module 3 Quiz A   | 56              |
| 3             | Module 3 Quiz B   | 60              |
| 3             | Module 3 Quiz C   | 50              |
| 4             | Discussion Board Posts and Responses Module 4 Discussion 1  | 25              |
| 4             | Discussion Board Posts and Responses Module 4 Discussion 2  | 25              |
| 4             | Module 4 Quiz A   | 60              |
| 4             | Module 4 Quiz B   | 50              |
| 5             | Discussion Board Posts and Responses Module 5               | 25              |
| 5             | Written Assignment: Nervous System Disease Pamphlet         | 40              |
| 5             | Written Assignment: Article Summary                         | 25              |
| 5             | Module 5 Quiz A   | 50              |
| 5             | Module 5 Quiz B   | 50              |
| 6             | Written Assignment: Comparison Table                        | 25              |
| 6             | Written Assignment: Skin Cancer Outline                     | 25              |
| 6             | Module 6 Quiz A   | 50              |
| 6             | Module 6 Quiz B   | 50              |
|               | <b>Total Points Possible</b>                                | <b>1112</b>     |

## Grading Scale

The following grading scale will be used to assign a grade at the end of the course:

| Percentage Achieved | Grade |
|---------------------|-------|
| 93% or above        | A     |
| 90% or above        | A-    |
| 87% or above        | B+    |
| 83% or above        | B     |
| 80% or above        | B-    |
| 77% or above        | C+    |
| 70% or above        | C     |
| Below 70%           | F     |

## Late Assignments

All assignments and required online activities are due according to the deadline listed in the course schedule. Granting deadline extension is the course instructor's autonomy.

## Incompletes

If you are unable to complete the requirements for this course due to extenuating circumstances, an Incomplete grade (I) may be granted if you meet the general guidelines stated below.

General Guidelines for submitting a course incomplete request:

- More than 50% of the course session has elapsed.
- The student has encountered an unexpected situation that is beyond his or her control.
- The student is
  - in good academic standing -- up to date on all of the course assignments and has at least an overall passing grade,
  - able to complete all of the remaining coursework within a session (5 weeks for a undergraduate course and 6 weeks for a graduate course) that immediately follows the session the student is currently enrolled, and
  - able to provide support documentations to substantiate the need for extra time should a session is not enough to complete the course requirements.

If an Incomplete is granted, the instructor will set a deadline for all work to be completed. **The deadline cannot go past one (1) session.** All incomplete grades and deadlines are subject to approval by the designated University authority.

## **Course Related Communication**

Online courses are conducted in an accelerated format. Timely communication is very important. When receiving emails from your classmates or instructor, please respond as soon as you can.

Students are REQUIRED to use their Indiana Tech email account for all course related communication. The most direct, and effective, way to email your course instructor and classmates, is by using the Send Email function within the Blackboard course site. When you use the Send Email function, you automatically receive a carbon copy of the email you sent. In the event when you need to substantiate your claim that you did email your classmates or instructor, you can show that carbon copy to the person(s) who requested it.

Please note that Blackboard only permits you to send email, it does not provide you with the check email function. All of the emails your classmates and instructor send to you will be delivered to your Indiana Tech email account. You are strongly encouraged to check your Indiana Tech email account regularly, preferably several times a week, to minimize the likelihood of miscommunication.

The University policy requires each online course instructor to respond to a student's email within 24 hours. Unless there is an extraneous situation that prevents the instructor from following this rule, you can expect to hear from the instructor within 24 hours. If you don't receive a reply within 24 hours, please do not hesitate to follow up with another email or forward the carbon copy of the email you sent to [OnlineSupport@IndianaTech.edu](mailto:OnlineSupport@IndianaTech.edu) with a note "Please help. It's been 24 hours and I have not heard from my instructor" and the University support staff will act on your behalf to contact your course instructor.