

## **Syllabus**

**Course Number: HIM 320**

**Course Title: Pathophysiology and Pharmacology**

### **Course Description:**

Provides an overview of disease processes, symptoms and etiology organized by body systems. Includes basic diagnostic tests, treatments and medications for common diseases along with basic pharmacologic principles.

### **Prerequisite Courses:**

HIM 310 - Medical Terminology (or equivalent)  
Anatomy and Physiology I and II

### **Course Outcomes:**

Upon completion of this course, learners should be able to:

- Describe homeostasis and the consequences of homeostatic imbalance.
- Develop a basic understanding of the most common diseases, with an emphasis on clinical relevance, disease process and relevant pharmacotherapies.
- Analyze the effects of disease in one body system on another body system or on emotional state.
- Correlate laboratory findings, other diagnostic tests, and pharmacologic treatment with selected diseases and conditions.
- Understand how drugs are developed, named and approved.
- Understand how drugs are prescribed, administered and classified.

### **Course Materials:**

#### ***Required Texts:***

Tamparo, C & Lewis, M. (2011). Diseases of the Human Body, 5th Edition. FA Davis.

Turley, S.M. Understanding Pharmacology for Health Professionals. 5th Edition. Pearson Higher Ed. ISBN 978-0-8036-2505-1

#### ***Optional Materials:***

Pagana & Pagana. (2001). Mosby's Diagnostic and Laboratory Test Reference. (7th Ed.). St. Louis: Mosby. ISBN #0-3230-30211

**-OR-**

Fischbach, Francis. (2004). A Manual of Laboratory and Diagnostic Tests. Lippincott. ISBN # 0-7817-1969-0

**Pre-Assignment:**

**Online Format:** Sign on to D2L (Home Page) and become familiar with the course navigation of the Web Curriculum.

**Pre-Assignment Due Dates:**

**Online Format:** The instructor will specify the due date for this assignment.

**Course Assignments and Activities:**

	Topics	Readings	Activities Assignments and Associated Points
1	Disease Process Overview & Introduction to Pharmacology Concepts	Tamparo: Chaps 1, 3, Turley: Chaps 1-6.	<b>Discussion:</b> Introduction <b>Discussion 1:</b> Drug derivations and interactions with food (5) <b>Mini Assignment 1 a.:</b> In Tamparo, Read Case Study 2 in Chapter 1. Answer questions 1 and 2. <b>1.b:</b> Describe the process of how a drug gets approved. (10) <b>Pharmacy Quizzes:</b> Chapters 1 through 6 (60)
2	Infectious Disease, Urinary and Reproductive Systems	Tamparo: Chaps 4, 15, 16. Turley: Chaps 7,13, 21 & 23	<b>Discussion 2:</b> New surges in Infectious Diseases: Swine Flu & Immunizations (10) <b>Mini Assignment 2:</b> In Tamparo, Read Case Study 2, Chapter 4. Answer the three questions. (10) <b>Pharmacy Quizzes:</b> Chapters 7, 13, 21 & 23 (40)

3	Respiratory & Cardiovascular Systems	Tamparo: Chaps 12 & 13.  Turley: Chaps 10, 11.	<p><b>Discussion 3:</b> Pneumonia (5)</p> <p><b>Mini Assignment 3:</b> Answer the questions for Case Studies 1 and 3 for Chapters 12 and 13 in Tamparo. (10)</p> <p><b>Pharmacy Quizzes:</b> Chapters 10 and 11 (20)</p>
4	Neoplasms, Skin Diseases and Disorders	Tamparo: Chaps 5, 8  Turley: Chaps 12, 17 & 22	<p><b>Discussion 4:</b> Pneumonia (5)</p> <p><b>Mini Assignment 4:</b> In Tamparo Chapter 5 read Case study 2 and answer the 3 questions related to lung cancer and in Chapter 8 answer discussion Questions/Personal Reflections at the end of the chapter- complete Questions 1 and 2 (10)</p> <p><b>Pharmacy Quizzes:</b> Chapters 12, 17 and 22 (30)</p>
5	Congenital Diseases & Disorders, Mental Health Diseases & Disorders	Tamparo: Chaps 6,7  Turley: Chapter 16	<p><b>Discussion 5:</b> Mental Illness &amp; anti-depressant drugs (5)</p> <p><b>Mini Assignment 5:</b> Describe congenital heart diseases of newborns and their treatment in 2-3 pages (10)</p> <p><b>Pharmacy Quiz: Chapter 16</b> (10)</p> <p><b>Midterm Exam</b> (20)</p>

6	Digestive and Endocrine System Diseases & Disorders	Tamparo Chaps 11, 14.  Turley: Chaps 8, 14	<p><b>Discussion 6:</b> Diabetic patients (5)</p> <p><b>Mini Assignment 6:</b> Choose one disease from both <b>Tamparo</b> chapters (11 and 14) to report on - approximately one page for each disease. Include causes, diagnosis, treatment options and medications. (10)</p> <p><b>Pharmacy Quizzes:</b> Chapters 8 and 14 (20)</p>
7	Nervous and Musculoskeletal Diseases and Disorders	Tamparo: Chaps 9, 10.  Turley, Chaps 9, 15, 20 & 24	<p><b>Discussion 7:</b> Skeletal disorders (5)</p> <p><b>Pharmacy Quizzes:</b> Chapters 9, 15, 20 &amp; 24 (40)</p> <p>Begin working on Take Home Final.</p>
8	Eye and Ear Disorders and Diseases	Tamparo; Chapter 17  Turley: Chaps 18,19	<p><b>Discussion 8:</b> Trends, Open discussion of diseases (10)</p> <p><b>Pharmacy Quizzes:</b> Chapters 8 and 14 (20)</p> <p><b>Final exam</b> (122)</p>
			<b>Maximum Points Possible: 442</b>

### Course Policies and Procedures:

Health Information Management Domains:

This course covers Pathophysiology and pharmacotherapy at Level 4 (detailed understanding) in the Biomedical Sciences Knowledge cluster.

## CC&IS Grading Scale

Letter Grade	Percentage	Grade Point
A	93 to 100	4.00
A–	90 to less than 93	3.67
B+	87 to less than 90	3.33
B	83 to less than 87	3.00
B–	80 to less than 83	2.67
C+	77 to less than 80	2.33
C	73 to less than 77	2.00
C–	70 to less than 73	1.67
D+	67 to less than 70	1.33
D	63 to less than 67	1.00
D-	60 to less than 63	.67
F	Less than 60	0

Additional information about grading can be found in the latest edition of the University Catalog, available at <http://www.regis.edu/Academics/Course%20Catalog.aspx>.

### CC&IS Policies and Procedures

Each of the following CC&IS Policies & Procedures is incorporated here by reference. Students are expected to review this information each term, and agree to the policies and procedures as identified here and specified in the latest edition of the University Catalog, available at <http://www.regis.edu/Academics/Course%20Catalog.aspx> or at the link provided.

- The CC&IS Academic Integrity Policy.
- The Student Honor Code and Student Standards of Conduct.
- Incomplete Grade Policy, Pass / No Pass Grades, Grade Reports.
- The Information Privacy policy and FERPA. For more information regarding FERPA, visit the [U.S. Department of Education](http://www.ed.gov).
- The HIPAA policies for protected health information. The complete Regis University HIPAA Privacy & Security policy can be found here: <http://www.regis.edu/About-Regis-University/University-Offices-and-Services/Auxiliary-Business/HIPAA.aspx>.
- The Human Subjects Institutional Review Board (IRB) procedures. More information about the IRB and its processes can be found here: <http://regis.edu/Academics/Academic-Grants/Proposals/Regis-Information/IRB.aspx>.

The CC&IS Policies & Procedures Syllabus Addendum summarizes additional important policies including, Diversity, Equal Access, Disability Services, and Attendance & Participation that apply to every course offered by the College of Computer & Information Sciences at Regis University. A copy of the CC&IS Policies & Procedures Syllabus Addendum can be found here: <https://in2.regis.edu/sites/ccis/policies/Repository/CCIS%20Syllabus%20Addendum.docx>.