Description

The Biology of Health and Human Disease is an introductory course which examines a systems approach to the fundamental biological concepts of normal human anatomy and physiology, proper terminology, and the structure and function of all human organ systems in the presence of major common human diseases. This course also evaluates the broader risk factors and socioeconomic factors impacting human health at both the individual and population levels. Students explore these concepts through case studies, interactive simulations, videos, online labs, and discussions.

Prerequisite(s)
None

Outcomes

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

1. Describe the interrelationship of cells, tissues, and organ systems of the human body in maintaining normal function.
2. Contrast normal body system functions with the changes that occur in response to disease.
3. Discuss how the functions of the body’s defense systems prevent the development of disease.
4. Explain how external factors such as environment and lifestyle impact individual health and the health of populations.

Deliverables

Click here to view the 8 week Term Schedules.

Click here to view the 15 week Term Schedules.

Course Schedule

Weeks start on Monday, 12:01 AM ET and end on Sunday, 11:59 PM ET, US.

Unless otherwise noted, all assigned items are due at the end of the module (by 11:59PM, Sunday).

<table>
<thead>
<tr>
<th>Week</th>
<th>Module &amp; Title</th>
<th>Reading</th>
<th>Assignments</th>
<th>Online Discussions</th>
<th>Course Outcomes Related to this Module</th>
</tr>
</thead>
</table>

1 of 8
<table>
<thead>
<tr>
<th>Week 1</th>
<th>Module 1: Cells, Tissues, and Organ Systems</th>
<th>Module Notes: The Building Blocks of the Body</th>
<th>M1D1: Interrelationships of Organ Systems</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Chapter 4: Epithelial Tissues- Section 1</td>
<td>Chapter 4: Connective Tissues- Section 7</td>
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<td>Chapter 4: Membranes- Section 8</td>
<td>Chapter 4: Nervous Tissues- Section 9</td>
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<td></td>
<td>Boundless. (2015). Anatomy and Physiology: Chapter 4: Cancer- Section 6</td>
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Forcia, B. (2014). An eText of Human Anatomy and Physiology  
Reproductive Anatomy (starts on pg. 683-693)  
Reproductive Physiology (starts on pg. 697-706)  
Des Moines University. (n.d.). Female Reproductive System Diseases  
Des Moines University. (n.d.). Male Reproductive System Diseases  
University of Connecticut. (2006). Acid Base Online Tutorial | | | 1, 2, 3 |
<table>
<thead>
<tr>
<th>Week 3</th>
<th>Module 3: Mechanisms of Disease, Integumentary, and Immune Systems</th>
<th>Module Notes: Mechanisms of Disease, Integumentary, and Immune Systems</th>
<th>M3D1: Case Study- Kaposi's Sarcoma and AIDS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>WikiBooks. (2015). Human Physiology&lt;br&gt;The Integumentary System: Sections 1-5&lt;br&gt;The Immune System</td>
<td>Boundless. (2015). Anatomy and Physiology.&lt;br&gt;The Skin: Section 1 o Accessory Structures of the Skin: Section 2&lt;br&gt;Functions of the Integumentary System: Section 3</td>
<td>2, 3, 4</td>
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<td>National Institutes of Health: National Institute of Arthritis and Musculoskeletal and Skin Diseases- Understanding Autoimmune Diseases</td>
<td>National Institutes of Health: National Institute of Arthritis and Musculoskeletal and Skin Diseases- Understanding Autoimmune Diseases</td>
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<tr>
<th>Week 4</th>
<th>Module 4: Skeletal and Muscular Systems</th>
<th>Module Notes: Skeletal and Muscular Systems</th>
<th>M4A1: Midterm Exam</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>M4D1: Musculoskeletal Disorder- A Patient Education Case Study</td>
<td>M4D1: Musculoskeletal Disorder- A Patient Education Case Study</td>
<td>1, 2, 4</td>
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<tr>
<td>Week</td>
<td>Module</td>
<td>Module Notes:</td>
<td>M5A1: Annotated Bibliography</td>
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Module 8: Nutrition and Digestion

Module Notes: Nutrition and the Digestive System
United States Department of Agriculture. (2015). MyPlate For all food groups (fruits, vegetables, grains, proteins, and dairy) read the following: All about the group Nutrients and Health Benefits

M8A1: Final Exam

M8D1: Evaluating Your Diet

2, 4

Evaluation

Grade Ranges
A=90-100%
B=80-89%
C=70-79%
D=60-69%
F=below 60%

Breakdown

Grade Weights:

<table>
<thead>
<tr>
<th>Grade Weight</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Discussion Participation</td>
<td>30%</td>
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<tr>
<td>Exams</td>
<td>40%</td>
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<tr>
<td>Assignments</td>
<td>30%</td>
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</tbody>
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RUBRICS USED IN THIS COURSE:

SHS Undergraduate Discussion Rubric
HSC280 Annotated Bibliography Rubric
HSC280 Patient Education Presentation Rubric

Criteria

COURSE REQUIREMENTS

Course Activities
Discussions - 30%
You will participate in a total of eight (8) discussions throughout the duration of the course, one for each module. The discussions are designed to help you engage with other students in meaningful discourse to help you to achieve the outcomes for each module. Most of the discussions are framed around case studies that focus on important major diseases and the pathophysiology involved in them. These discussions are a place where significant learning takes place and the more you put into the discussions, the more you will get out of them.

Exams - 40%
The exams are given twice - as a midterm covering the first half of the course and as a final exam covering the second half. These assessments are designed to promote learning, not punish you for not reading or understanding everything within the textbook. Taking the exams with the help of the e-textbooks is encouraged because if it’s worth knowing, it’s worth looking up. Reading and referencing the e-textbooks and other materials frequently will solidify your knowledge of the content.

Assignments - 30%
The assignments in this course are broken up into smaller pieces of one larger, overarching final project. The sections are:

Research Topic Selection (Not graded but required) - This assignment is where you will do an environmental scan of the Excelsior College Library and locate a disease of an organ system that is of the greatest interest to you. Connecting this research with your personal life is a great way to engage with the material and learn significantly more because it will mean something to you. Choosing a disease, disorder, or condition that has personal meaning will improve your experience, but isn’t necessary.

Annotated Bibliography (10% of total Assignment grade) - This assignment will help guide you through the disease-specific literature that is available through the Excelsior College Library. You will locate a minimum of five (5) scholarly, peer-reviewed sources and provide an annotation for each.

Presentation Outline (5% of total Assignment grade) - This assignment is to help you to put your ideas to paper and finalize an outline and presentation format for the final project. Putting your ideas on paper and reading through them is the best way to ensure that they flow logically and to help you decide the best way to present them to your instructor and classmates at the end of the course.

Final Presentation (20% of total Assignment grade) - Now that the pieces of your presentation have been created and the research is done, the final presentation simply involves putting them all together in a cohesive, attractive, and understandable way for a patient or family member who is facing a recent diagnosis of your chosen disease, disorder, or condition.

Formatting and Style for Written Assignments:
All assignments in this course should be created in an MS word or similar word processing software program and submitted in APA 6th edition format, with 1-inch margins, 12pt font, and double-spaced lines.

Course Policies

Late Assignment Policy
Prior authorization from your faculty is required for late submissions. The first late submission may be accepted without penalty, with prior approval. The second submission may be subject to grade deduction of 5 points. Any subsequent assignments submitted late will receive a grade of zero. Extenuating circumstances will be considered.

Late Exam/Quiz Policy
All exams and quizzes must be completed by Sunday at midnight, EST (Eastern Standard Time). No credit will be received if exam/quiz is not completed by this time. Contact your instructor if you are not able to meet this deadline due to extenuating circumstances.

Written Assignments
The most current APA guidelines must be adhered to for formatting in-text citations and the reference list. Specific written assignments may require adherence to additional APA formatting guidelines.
Discussions

Thoughts that you obtain from other sources and share in your discussion posts must include reference information.

Institutional Policies

COURSE PARTICIPATION:

Weekly course participation is required. Please see the Student Participation Policy (https://info.excelsior.edu/student-policies/student-participation-policy-for-online-courses/) for more details.

Instructor Participation

Your instructor will:

- Post a welcome message during the first 24 hours of the course.
- Schedule real time office hours through the chat room and/or by individual appointment.
- Communicate with you through the Blackboard communication tools, including internal course messaging.
- Respond to student communications within two business days.
- Log into the course to review and participate at least three different days a week in 15-week courses, or four different days a week in 8-week courses.
- Provide you with formative feedback midway through the course based on work submitted to that point.
- Grade all formative assignments within 7 business days in 15-week courses and 4 business days in 8-week courses, and will grade final summative work within 5 business days after the end of the term.

POLICIES

You are responsible for being familiar with all the policies that are related to your activity in this course. Complete information on Excelsior College policies can be found in the Course Information area or by visiting www.excelsior.edu/policies.

All student work in this course may be submitted to plagiarism detection software. The reports from this software may be used as evidence in support of disciplinary actions. Please see the policy on Academic Honesty (https://info.excelsior.edu/student-policies/academic-honesty/) for more details.

Additional Items

This course contains the technologies listed below. Click each link to view each technology’s accessibility statement.

- Blackboard Learning Management System (http://info.excelsior.edu/accessibility/blackboard)
- Films on Demand (http://info.excelsior.edu/accessibility/fod)
- Articulate Engage (http://info.excelsior.edu/accessibility/articulate)

View more information about Disability Services (http://www.excelsior.edu/disability-services).