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Instructor Information

Instructor:  Stephen Mackey M.D.
Office:  BHCLR, room 1143
Mailbox:  BHCLR, room 1143
Hours:  By appointment
Phone:  501-202-6054
Email:  smackey@uaptc.edu

*All emails and telephone calls will receive a response within two business days.

Chair:  Thomas Russell, MS  (501) 812-2705  trussell@uaptc.edu
Dean:  Marico Bryant-Howe, PhD  (501) 812-2342  mbryanthowe@uaptc.edu

*If your emails and telephone calls do not receive a response within two business days, the appropriate chain of command is above.

Course Information

3 Credit Hours (3 hours lecture per week) 4 credit hours (3 hours lecture, 2 hours lab)

Meeting Times: Lecture:  TR 1:00-2:15 p.m.  Laboratory--- T  2:25pm-4:15pm

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Catalog Description

BIOL 1402. Human Anatomy and Physiology I* ACTS # BIOL 2404 This course is the first semester of a two-semester study of the structure and functions of the organ systems of the human body and how they work together to maintain homeostasis. This course is designed for majors in health profession programs. 3 lecture hours, 2 lab hours. See prerequisite details below. (4 credit hours/special course fee)

Prerequisites: (must meet all of the following requirements) • A score of 19 or above on the English section of the ACT, or a score of 83 or above on the Accuplacer Sentence Skills test, or a score of 80 or above on the COMPASS Writing Placement test, or completion of ENGL 0111 (Composition Review) with a grade of “C” or better. 271 • A score of 19 or above on the Reading section of the ACT, or a score of 78 or above on the Accuplacer Reading Comprehension test, or a score of 83 or above on the COMPASS Reading Placement test, or completion of READ 0300 (Foundations of Literacy) with a grade of “C” or better. • A score of 22 or above on the Math section of the ACT, or a score of 97 or above on the Accuplacer Elementary Algebra test or a score of 50 or above on the COMPASS Math Placement test, or completion of all required zero (0) level mathematics coursework.

Course Materials


**Mission Statement**

University of Arkansas – Pulaski Technical College provides access to high-quality education that promotes student learning and enables individuals to develop to their fullest potential.

**Institutional Learning Outcomes and General Education**

UA-PTC supports a college-wide institutional learning assessment program which concerns effective instructional methods and promotes student learning achievement by assessing:

1. Communication
2. Critical Thinking
3. Cultural Awareness
4. Information Literacy
5. Professionalism
6. Quantitative Literacy
7. Technology Literacy

For more information, please consult the following website: [https://uaptc.edu/sla](https://uaptc.edu/sla)

**Discipline Mission Statement**

The mission of Biology discipline at UA-PTC is to provide high-quality education to students through developing the fundamental skills and knowledge to make informed decisions as individuals and members of society. We encourage critical thinking and life-long learning about the unity, diversity and interrelatedness of living things.

**Department / Discipline or Program Learning Outcomes**

1. Critical and investigative thought
2. Academic Integrity
3. Independent thinking and learning
4. Written communication on a collegiate level
5. Exposure to natural science, human health, and nutrition.
6. Recognition of the influence of scientific thought on individuals and society
7. Collaborative investigation
8. Basic mastery of scientific concepts and the demonstration of scientific skills
9. Correct use of biological instrumentation and proper laboratory techniques

The Biology discipline, consistent with the College’s mission and the Division’s objectives, encourages the success of its students in all technical fields and academic disciplines by:

1. Demonstrating critical and independent thinking through biological investigation
2. Demonstrating professionalism in communication and collaboration
3.Analyzing the influence of scientific thought on individuals and society
4. Demonstrating proper use of biological instrumentation and laboratory techniques

Student Learning / Course Outcomes

ACTS 2404
BIOL 1402 (AP 1)
The student will explain, describe, discuss, recognize, and/or apply knowledge understanding of the following:
1. General body organization and function
2. Basic biochemistry
3. Cellular structure and function
4. Metabolism
5. Histology
6. Integumentary system
7. Skeletal system
8. Joints
9. Muscular system
10. Nervous system
11. Special senses
12. Proper use of microscope, other lab equipment, and lab techniques

BIOL2404 Human Anatomy and Physiology I

General Description: A two-semester study of the structure and functions of the organ systems of the human body and how they work together to maintain homeostasis. Designed for majors in health profession
programs. Lab required. For transferability, Human Anatomy and Physiology I and II, or equivalent must be taken at the same institution.

Expected Student Learning Outcomes: The student will explain, describe, discuss, recognize, and/or apply knowledge and understanding of the following: General body organization and function; Basic biochemistry; Cellular structure and function; Metabolism; Histology; Integumentary system; Skeletal system; Joints; Muscular system; Nervous system; Special senses; Proper use of microscope, other lab equipment, and lab techniques. The student will participate in dissections.

Course Learning Outcomes: BIOL 1402 Human Anatomy & Physiology I

The student will explain, describe, discuss, recognize, and/or apply knowledge and understanding of the following:

1. Body organization (includes terms, basic biochemistry, cellular structure & function, metabolism, histology, & integumentary system)
2. Musculoskeletal system (includes muscular system, skeletal system, & joints)
3. Nervous system (includes nervous system & general senses)
4. Proper use of microscope, other lab equipment, and lab techniques

Policies

Report a Complaint or Concern

UA-PTC takes very seriously complaints and concerns regarding the institution. Most complaints or concerns of a specific nature should be initiated and resolved at the campus level through normal college processes whenever possible. UA - Pulaski Technical College receives and resolves complaints using a variety of methods. To report a complaint or concern, please follow the link below.

https://www.uaptc.edu/report-a-concern-complaint

UA-PTC Attendance Policy

Education at UA-PTC requires students’ active involvement in the learning process. Thus, students are expected to attend all classes and actively engage in all learning assignments and/or opportunities provided in their classes. Class attendance should be treated as mandatory by all students as attendance will be taken by all instructors during the first two weeks of class. Additionally, a written policy on student attendance that is tied to course objectives and included in a course syllabus will be provided for each course by instructors.

Natural Science Departmental Attendance Policy

You will be given a failing grade (F) for the course if you miss more than 25% of lab sessions regardless of your grade. You will be given a failing grade (F) for the course if you miss more than 25% of lecture sessions regardless of your grade.

Course Policies
The UA-PTC Catalog rules and regulations will be enforced in this course at all times. Please consult the following website for more information: https://www.uaptc.edu/catalog

Professional behavior is required. Punctual attendance and intelligent participation are expected. Particulars as determined by the instructor are detailed in the paragraph below.

Appropriate behavior is expected for all communications, including any notes, email messages, or telephone conversations. Some guidelines for communication are included in this syllabus to help you.

**Grading Policy**

Letter grades will be based on the following scale:

- 90 to 100%   A
- 80 to 89%    B
- 70 to 79%    C
- 60 to 69%    D
- 0 to 59%     F

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Points</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 Exams, 100 points each</td>
<td>400</td>
<td>40%</td>
</tr>
<tr>
<td>Comprehensive Final Exam</td>
<td>200</td>
<td>20%</td>
</tr>
<tr>
<td>Quizzes</td>
<td>100</td>
<td>10%</td>
</tr>
<tr>
<td>Information Literacy</td>
<td>50</td>
<td>5%</td>
</tr>
<tr>
<td>Microscopy Practical Assessment</td>
<td>50</td>
<td>5%</td>
</tr>
<tr>
<td>Lab Practicals and Quizzes</td>
<td>200</td>
<td>20%</td>
</tr>
<tr>
<td><strong>Total Points Possible</strong></td>
<td>1000</td>
<td>100%</td>
</tr>
</tbody>
</table>

* Instructors have one week to provide feedback and post grades for all assignments unless otherwise noted by a departmental policy that has been approved by the Dean of the School.

In an online class, eligibility for Financial Aid is based on student participation. Logging into the course does not constitute participation. For purposes of roster certification, students must complete a gradable attendance artifact.

**Academic Integrity**

It is expected that all students who attend UA-PTC conduct themselves in a manner appropriate for the college experience. Academic integrity is a vital component of collegiate behavior. The
UA-PTC catalog states, “The gaining of knowledge and the practice of honesty go hand-in-hand.”

The catalog also states, “The responsibility and authority of initiating discipline arising from violations of the rules against dishonesty during the process of the course are vested in the instructor of that course.”

The complete Academic Integrity Policy is in the UA-PTC code of conduct.

**Accommodation Policy**

Services for Students with Disabilities: UA-PTC is committed to fulfilling all federal requirements as stated in the Rehabilitation Act of 1973, the Americans with Disabilities Act of 1990, and the American with Disabilities Amendments Act (ADAAA) of 2008. Accommodations are available to students who have documented disabilities. Students who request accommodations must register with the Disability Services Office (Main Campus: 501-812-2738 or South Campus: 501-812-2862) and must provide current and relevant documentation.

Students requesting accommodations should inform the instructor at the beginning of the course or as soon as accommodations are approved. It is the student's responsibility to provide their Accommodation Letter to the instructor. Accommodations are not retroactive and will only be provided once your instructor receives the Accommodation Letter.

**Student Code of Conduct**

All students are expected to abide by the UA-PTC Student Code of Conduct. For the full Student Code of Conduct, access the most current version of the UA-PTC Academic Catalog. [http://uaptc.azurewebsites.net/docs/default-source/course-catalog/2017-18-academic-catalog.pdf?sfvrsn=a08a3038_2](http://uaptc.azurewebsites.net/docs/default-source/course-catalog/2017-18-academic-catalog.pdf?sfvrsn=a08a3038_2)

**Sexual Misconduct**

No person at UA-PTC will, on the basis of gender, be excluded from participation in, be denied benefits of, or be subjected to sex discrimination, sexual harassment or sexual misconduct under any education program or activity. All college administrative policies and procedures regarding sex discrimination, sexual harassment, and sexual misconduct are in compliance with Title IX. Students who feel they are victims of sexual misconduct should contact the UA-PTC Title IX Deputy Coordinator for Students:

Michelle Anderson, Director of Student Life and Leadership
Campus Center Building Room 216
501-812-2756
manderson@uaptc.edu

**Course Evaluations**

Students may be asked to evaluate their instructor and course near the end of the semester. These student evaluations are very important to the improvement in the quality of instruction.
and course materials. All results are anonymous and shared with the faculty only after the semester is over and grades have been posted.

**Information Literacy**

UA-PTC is committed to the Information Literacy Competency Standards for Higher Education as established by the Association of College and Research Libraries and endorsed by the National Forum on Information Literacy. Therefore, all courses will incorporate an information literacy component so that, by graduation, all students will be able to recognize the need for information, then locate, evaluate, synthesize, and communicate information in an ethical manner. Information literacy encompasses critical thinking, research, media, technology, health, business, and visual literacy skills to produce lifelong learners who can make informed decisions in the workplace and in their personal lives.

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**Tentative Course Schedule**

<table>
<thead>
<tr>
<th>Week</th>
<th>Textbook Chapter – Topic</th>
<th>Laboratory Manual Exercise Number - Topics</th>
<th>Exams</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Syllabus</td>
<td>Lab Safety</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Chapter 1 – Introduction</td>
<td>2 &amp; 4 Introduction/Microscopy</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Chapter 2 &amp; 3 – Chemistry</td>
<td>5 &amp; 7 Cells</td>
<td></td>
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<tr>
<td>3</td>
<td>Chapter 4 – the Cell</td>
<td>8-10 Tissues</td>
<td>Exam 1 Ch 1-4</td>
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<tr>
<td>4</td>
<td>Chapter 5 – Tissue</td>
<td>8-10 continued</td>
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</tr>
<tr>
<td>5</td>
<td>Chapter 6 – Integumentary System</td>
<td>11 Integumentary Exercises</td>
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<tr>
<td>6</td>
<td>Chapter 7 – Skeletal System, bone</td>
<td>12-19 Skeletal System</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Chapter 8 – Skeletal System, skeleton</td>
<td>12-19 continued</td>
<td>Exam 2 Ch 5-8</td>
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<tr>
<td>8</td>
<td>Chapter 9 – Skeletal System, joints</td>
<td>Open for mid-term or lab exercises</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Chapter 10 – Muscular System</td>
<td>20-26 Muscular System</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Chapter 11 – Muscular System</td>
<td>20-26 continued</td>
<td>Microscopy Practical Due this week</td>
</tr>
<tr>
<td>11</td>
<td>Chapter 12 – Nervous System, nerves</td>
<td>62Cat Dissection (require at least one)</td>
<td>Exam 3 Ch 9-12</td>
</tr>
<tr>
<td>12</td>
<td>Chapter 13 – NS, brain &amp; CN</td>
<td>27-32 Nervous System</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Chapter 14 – NS, spinal cord &amp; nerves</td>
<td>27-32 continued</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td><strong>Fall Break!</strong></td>
<td><strong>Fall Break!</strong></td>
<td><strong>Fall Break!</strong></td>
</tr>
<tr>
<td>15</td>
<td>Chapter 15 – Autonomic NS</td>
<td>33-38 Special Senses</td>
<td></td>
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<tr>
<td>16</td>
<td>Chapter 16 – Special Senses</td>
<td>33-38 Special Senses</td>
<td>Exam 4 Ch 13-16</td>
</tr>
<tr>
<td>17</td>
<td><strong>FINALS</strong></td>
<td><strong>FINALS</strong></td>
<td><strong>FINALS</strong></td>
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</tbody>
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Final Exam Schedule:

May 6th - 7th at usual class times.
Disclaimer: This schedule is a guide for the semester. The instructor reserves the right to amend the schedule as necessary.

Course Agreement Form

Read, complete, and return to instructor:

I have read the course syllabus for Dr. Mackey’s BIOL 1402 class at Pulaski Technical College, and I understand its content. I also understand the rules for the class, and I will follow and abide by these rules, including those relating to attendance, assignments, grading criteria, plagiarism, and behavior.

Semester