Instructor Information

Instructor: Yong I. Park, Ph.D.
Office: By Appointment
Mailbox: SCIB 115
Hours: By Appointment
Phone: 870-575-7245
Email: ypark@uaptc.edu

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

Dean: Thomas Russell (501)812-2705 trussell@uaptc.edu
Marico Bryant Howe (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

This course meets lab every Monday from 6:00 – 7:50 PM in SCIB 105. The lecture portion is every Wednesday from 6:00 – 8:40 PM in SCIB 108.

Catalog Description

3 hours of lecture and 3 hours of lab

PREREQUISITES: Students enrolled in BIOL 1400 must meet 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.

- 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

NOTE: Connect Access includes the eBook.
If you would like a printed textbook, you can order it from the Connect website for $25.
You MUST have your own copy of the Lab Manual by Lab 3, or it will count as an absence. If you are absent for 4 or more labs, you receive an F for the course.

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

Department / Program Learning Outcomes

The Biology department, 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 promoting:

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

Student Learning / Course Outcomes

ACTS Course Objectives

1. Scientific method
2. Classification
3. Cell and membrane structure and functions
4. Biochemistry
5. Enzymes
6. Respiration and photosynthesis
7. Mitosis and meiosis
8. Metabolism
9. Genetics
10. DNA
11. Evolution
12. Use of microscope and other lab equipment

**UA-PTC Biology 1401 Course Outcomes:**

By the end of the course, the students will be able to:

1. Define the levels of the organization and related functions of bacteria, plants, and animals
2. Describe the characteristics and basic needs of living organisms
3. Analyze the processes of growth and inheritance in individuals and populations
4. Test a hypothesis that is formulated from observations
5. Use of microscope and other lab equipment

**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](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.

**Departmental Attendance Policy**

Attendance is important to learning science. Any student who misses 25% or more of class meetings will receive an F for the course, no matter how many points they may have earned.
Any student who misses 4 or more labs in a lab course will receive an F, even if they attend lecture or pass their assignments.

**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](https://www.uaptc.edu/catalog)

Professional behavior is required. Punctual attendance and intelligent participation are expected. Appropriate communication, including notes, email messages, or telephone conversations always begins with your name, course and section number so I will know who you are. Do not use internet abbreviations even when you write to me.

Biology Lab Policies:

A. No food, gum, or drinks are allowed in the lab.
B. Students are not to work on any assignments or other material other than the day’s lab topic.
C. There will be no lab make-up as considerable preparation time is required by the instructor and cannot be redone.
D. During each lab period you will be required to make notes of what is covered, record results, describe materials used, and note any conclusions or principles demonstrated.
E. No children of visitors are allowed in the lab at any time for any reason!

**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

Distribution of Points

<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 exams (100 points each)</td>
<td>500</td>
<td>60%</td>
</tr>
<tr>
<td>1 final exam (100 points)</td>
<td>100</td>
<td>Replace with the lowest exam score</td>
</tr>
<tr>
<td>Lab Microscope Assessment (Quiz and Practical)</td>
<td>100</td>
<td>5%</td>
</tr>
</tbody>
</table>
12 Prelabs (100 points each) | 1200 | 40%
12 lab assignments (100 points each)** | 1200 | 40%
** Total points ** | 2160 | 105%

* Feedback and grades for all assignments will be posted within one week unless otherwise noted by a departmental policy that has been approved by the Dean of the School.

** If you turn in your work late, your score will be reduced by 10 points per week. Your lab report due will be the following week Monday by 6:00 PM.

Exams are taken, using a Scantron so bring a #2 pencil. Exam questions will include multiple choice, true/false and matching. I do not use a Word Bank, so you must learn the vocabulary.

If you miss a lab, you can answer the questions for half credit, up to 2 weeks afterwards. **Labs will not be accepted for grading after 2 weeks.** Note that lab preparation is extensive, so we cannot set up a new lab just for you if you miss it.

If you miss one exam, the exam score will be automatically the lowest exam score and instructor will substitute zero from final exam score. If you miss a second exam, you will receive a zero.

** 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.

Plagiarism is offering the work of another person as one’s own without proper acknowledgment. This includes cutting and pasting from the Internet, as well as downloading or buying papers from the Internet.

Do not use direct quotes in your Information Literacy Report. Use your own words to show me that you understand the material. If you don’t understand your source, look up words you don’t know until it makes sense. Use of multiple sources including your textbook will help you understand your topic.

** If your paper uses quotes, instead of being in your own words, you will receive a zero.**

** 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

Sexual Misconduct

No person at Pulaski Technical College 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.

**Tentative Course Schedule**

<table>
<thead>
<tr>
<th>Week (Beginning)</th>
<th>CHAPTERS COVERED</th>
<th>LABS and Assignments (Graded)</th>
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</thead>
<tbody>
<tr>
<td>Wed, Jan. 9</td>
<td>Chapter 1: Scientific study of life</td>
<td>Introductions Lab Discussion</td>
</tr>
<tr>
<td>Wed, Jan. 16</td>
<td>Chapter 1: Scientific study of life</td>
<td>Pre-lab 1 <em>(due Aug. 21 online)</em> Lab Exercise #1</td>
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<tr>
<td>(Week 1)</td>
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<tr>
<td>Wed, Jan. 23</td>
<td>Chapter 2 Chemistry of life</td>
<td>Pre-lab 2 Lab Exercise #2 (Jan 21 MLK)</td>
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<tr>
<td>(Week 2)</td>
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<tr>
<td>Wed, Jan. 30</td>
<td>Chapter 3 Cells</td>
<td>Pre-lab 3 Lab Exercise #3</td>
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<tr>
<td>(Week 3)</td>
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<tr>
<td>Wed, Feb. 6</td>
<td>Chapter 4 The energy of life</td>
<td>Pre-lab 4 Lab Exercise #4 Exam 1 <em>(Chapter 1-3)</em></td>
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<tr>
<td>(Week 4)</td>
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<tr>
<td>Wed, Feb. 13</td>
<td>Chapter 5 Photosynthesis</td>
<td>Pre-lab 5 Lab Exercise #5</td>
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<tr>
<td>(Week 5)</td>
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<tr>
<td>Wed, Feb. 20</td>
<td>Chapter 6 How cells release energy</td>
<td>Pre-lab 6 Lab Exercise #6</td>
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<tr>
<td>(Week 6)</td>
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<tr>
<td>Wed, Feb. 27</td>
<td>Chapter 7 DNA structure and gene function</td>
<td>Microscopy Assessment Exam 2 <em>(Chapter 4-6)</em></td>
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<tr>
<td>(Week 7)</td>
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<tr>
<td>Wed, Mar. 6</td>
<td>Chapter 8 DNA replication, binary fission, and mitosis</td>
<td>Pre-lab 7 Lab Exercise #7</td>
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<tr>
<td>(Week 8)</td>
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<tr>
<td>Wed, Mar. 13</td>
<td>Chapter 9 Sexual reproduction and meiosis</td>
<td>Pre-lab 8 Lab Exercise #8</td>
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<tr>
<td>(Week 9)</td>
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<td>(Week 10)</td>
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<tr>
<td>Wed, Mar. 27</td>
<td>Chapter 10 Patterns of Inheritance</td>
<td>Pre-lab 9 Lab Exercise #9 Exam 3 <em>(Chapter 7-9)</em></td>
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<tr>
<td>(Week 11)</td>
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<tr>
<td>Wed, Apr. 3</td>
<td>Chapter 11 DNA technology</td>
<td>Pre-lab 10 Lab Exercise #10</td>
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<tr>
<td>Week 12</td>
<td></td>
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<tr>
<td>Wed, Apr. 10</td>
<td>Chapter 12 Force of evolutionary change</td>
<td>Pre-lab 11 Lab Exercise #11</td>
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<tr>
<td>(Week 13)</td>
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<tr>
<td>Wed, Apr. 17</td>
<td>Chapter 13 Evidence of Evolution</td>
<td>Pre-lab 12 Lab Exercise #12 Exam 4 <em>(Chapter 10-12)</em></td>
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<tr>
<td>(Week 14)</td>
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<tr>
<td>Wed, Apr. 23</td>
<td>Chapter 14 Speciation and Extinction</td>
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<tr>
<td>(Week 15)</td>
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<tr>
<td>Date</td>
<td>Activity</td>
<td>Exam</td>
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<tr>
<td>Wed. Apr. 30</td>
<td>Chapter 1-14 Review</td>
<td>Exam 5 (Chapter 13-14)</td>
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<tr>
<td>(Week 16)</td>
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<tr>
<td>Finals Week</td>
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<td>Cumulative Final Exam</td>
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</tbody>
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**Final Exam Schedule:**

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. Park’s Biology 1401 course 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

________________________________________________________________________
Date

________________________________________________________________________
Print name

________________________________________________________________________
Signature

________________________________________________________________________
UA-UA-PTC Email address

________________________________________________________________________
Telephone