Biology for Science Majors I
BIOL-1406

Meeting Times

This is an ECHS/DC course that is taught at STEM ECHS.

Class meets three times each week, either on MW or TR in addition to every Friday in Room 236 at STEM ECHS.

Bio 1406 Syllabus, Fall 2019
Syllabus

Contact Information

<table>
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<tr>
<th>Department:</th>
<th>Biology</th>
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<tr>
<td>Instructor:</td>
<td>Ann Brown</td>
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<td>210-989-3500</td>
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<tr>
<th>Office Location:</th>
<th>Building</th>
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<td>STEM ECHS</td>
<td>236</td>
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| Tutoring: | TBD |

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<td>Course #:</td>
<td>BIOL 1406</td>
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<td>Credit Hours</td>
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Materials

OpenStax Biology 2e Be sure to bookmark the online textbook!!!

- [https://openstax.org/subjects](https://openstax.org/subjects)
- Price: Free
Biology Laboratory Manual

- Author: Sylvia S. Mader
- Publisher: McGraw Hill
- Edition: 12th
- ISBN: 9781259298516

Description

This course is suitable for science majors and those students intending to pursue careers in health and allied fields. Topics include the nature, history and philosophy of science, basic chemistry, cell structure and function, genetics, evolution and classification of living organisms. This course fulfills the Life and Physical Sciences foundational component area of the core and addresses the following required objectives: Critical Thinking, Communication, Empirical Quantitative Skills, and Teamwork.

Prerequisite(s)

INRW 0420
MATH 0410

Objectives

1. Describe the chemistry of life.
2. Describe cellular processes.
3. Describe the evolutionary history of biological diversity.
4. Demonstrate the ability to employ empirical and quantitative skills, communication skills, critical thinking and teamwork.

Outcomes

1. Describe the characteristics of life.
2. Explain the reasoning used by scientists.
3. Identify the basic properties of substances needed for life.
4. Compare and contrast the structures, reproduction, and characteristics of viruses, prokaryotic cells, and eukaryotic cells.
5. Describe the structure of cell membranes and the movement of molecules across a membrane.
6. Identify the substrates, products, and important chemical pathways in metabolism.
7. Identify the principles of inheritance and solve classical genetic problems.
8. Identify the chemical structures, synthesis, and regulation of nucleic acids and proteins.
9. Describe the unity and diversity of life and the evidence for evolution through natural selection.
10. Be able to apply scientific reasoning to investigate questions, and utilize scientific tools such as microscopes and laboratory...
equipment to collect and analyze data.

11 Use critical thinking and scientific problem-solving to make informed decisions in the laboratory.

12 Communicate effectively the results of investigation.

**Schedule**

- **Fall 2019 Lab outline**
- **Fall 2019 Lecture outline**
- **Fall 2019 Quizzes**

**Institutional Policies**

**STUDENT RESPONSIBILITIES:**

**A. Attendance:**

**SmartStart.** Student absences will be recorded from the first day the class meets, and students who do not attend the first scheduled class meeting or contact the instructor will be dropped. Students should verify the drop is completed.

For fully online courses, an attendance verification activity is assigned and must be completed by the 3rd class day.

Regular and punctual attendance in all classes and laboratories, day and evening, is required. Students who are absent for any reason should always consult with their instructors. Course syllabi must provide specific information regarding attendance, including, for courses involving the internet, online activity that constitutes “attendance.” Also, both tardiness and early departure from class may be considered forms of absenteeism. In all cases, students will be held responsible for completion of course requirements covered in their absence.

Additionally, it is the student's responsibility to drop a course for nonattendance. Course instructors may drop a student for excessive absences or for online classes non-participation as defined by assigned work not being turned in during the course of a week. Absences are considered excessive when more than 12.5 percent of the total contact hours of instruction in a semester, including lecture and lab, are missed. For example, in a three-credit-hour lecture class, students may be dropped after more than six contact hours of absences. In a four-credit-hour lecture/lab class, students may be dropped after more than eight contact hours of absences. Absences are counted regardless of whether they occur consecutively.

In special programs with additional accreditation or certification standards, additional attendance requirements may be enforced but faculty must clearly explain these policies in their syllabi. Students who stop attending class for any reason should contact the instructor as soon as possible. To officially withdraw from the class, a withdrawal request must be submitted in ACES via the “student course withdrawal” link. Contact your instructor, advisor, or the Admissions and Records office if guidance is needed.

Failure to officially withdraw may result in a failing grade for the course. It is the student’s responsibility to withdraw officially from a class by submitting a “student course withdrawal” request in ACES.

**B. Early Alert and Intervention**

Your instructor cares about your success in this course. During the semester, you may receive notice through your ACES email account regarding your progress and ultimate success in this course. Upon receipt of the email, please contact your instructor to discuss specific tasks or actions to improve success in this course. Discussions with your instructors and Certified Advisor allow you to identify and implement actions that will help to successfully complete course requirements at the Alamo Colleges District.

**3-Peat Rule**

Texas legislation has a financial impact on the students who repeat courses excessively. Texas residents attempting the same course for a third time, from Fall 2002 forward, will be charged an additional $125 per credit hour for that course. This provision is described in the Texas Higher Education Coordinating Board Rules (Chapter 13, Subchapter B, §13.25).

**150 Hour Rule**
Texas Education Code §54.014 specifies that undergraduate students may be subject to a higher tuition rate for attempting excessive hours at any public institution of higher education while classified as a resident student for tuition purposes.

Students will be charged at the non-resident rate if, prior to the start of the current semester or session, the student has attempted 30 or more hours over the minimum number of semester credit hours required for completion of the degree program (typically 120 hours) in which the student is enrolled.

C. Student Responsibility for Success (Alamo Colleges District Policy F.6.2 (https://www.alamo.edu/link/845f7dc97d0e4b3c8ed7b453f1f0c729.aspx)):

As members of the Alamo Colleges District learning community, students, faculty, staff and administrators all share the responsibility to create an atmosphere where knowledge, integrity, truth, and academic honesty are valued and expected. A clear acknowledgment of the mutual obligations of all members of the academic community emphasizes this implicit partnership in fostering the conditions necessary for student success.

In this relationship, the Alamo Colleges District provides institutional policies, procedures, and opportunities to facilitate student learning that encourage interaction, involvement and responsible participation. Inherent in the academic climate is the expectation that students will assume responsibility for contributing to their own development and learning. Academic success is directly tied to the effort students put into their studies, the degree to which they interact with faculty and peers, and the extent to which students integrate into the campus life.

1. Engagement
   1. Create connections and build relationships with faculty, staff and students (visit during office hours, join clubs and organizations, participate in student activities, etc.);
   2. Stay informed of policies, procedures, deadlines and events for academic and co-curricular activities;
   3. Complete all requirements for admission, registration, and payment by deadlines;
   4. Apply for financial assistance, if needed, complying with all federal, state and local regulations and procedures;
   5. Meet all federal, state and local health care regulations.

2. Communication
   1. Seek guidance from faculty, advisors or counselors for questions and concerns in regards to degree plans, major selection, academic status, grades, and issues impacting college success;
   2. Develop a peer support system to identify student contacts for questions, group assignments, etc. regarding academic and co-curricular activities;
   3. Communicate with College personnel promptly regarding academic or co-curricular concerns and assistance requests;
   4. Carefully consider the information provided by College personnel and make decisions using that information;
   5. Check the Alamo Colleges District’s Web Services regularly for emails, holds, student records, financial aid status and announcements;
   6. Submit disability documentation if seeking services and request academic accommodations in advance of each semester.

3. Academic Success
   1. Complete courses with passing grades and maintain good academic standing (2.0 GPA) status;
   2. Read and follow all syllabi;
   3. Purchase textbooks and required supplies in a timely manner;
   4. Attend classes regularly and on time, with as few absences, late arrivals, and early exits as possible;
   5. Arrive to class with all needed materials and completed assignments for that class period;
   6. Be attentive in class and actively participate as appropriate;
   7. Devote sufficient time for studying;
   8. Ensure integrity in all aspects of academic and career development;
   9. Accurately represent one’s own work and that of others used in creating academic assignments. Use information ethically and exercise appropriate caution to avoid plagiarism on all assignments;
   10. Notify faculty in advance or as soon as possible about absences and provide documentation as appropriate;
   11. Consult faculty members in advance when unable to complete projects, assignments, or take examinations as scheduled.

4. Self-Responsibility and Responsibility to Others
1. Maintain accurate and complete degree/certificate major selection and contact information including name, address, phone number and emergency contact;
2. Balance personal obligations and educational pursuits. Work with a counselor / advisor to design a realistic schedule that dedicates adequate effort to be successful in college studies;
3. Know and follow the regulations and guidelines outlined in the Student Code of Conduct and Student Handbook;
4. Maintain respectful and appropriate behavior within and outside the classroom;
5. Ask for help when needed. Use all available resources and facilities provided by the College to enhance the learning experience;
6. Attend scheduled advising sessions, tutorials, and other appointments. Cancel or reschedule only with good reasons as early as possible;
7. Arrive prepared for tutorial sessions, bringing all needed materials (books, syllabi, rough drafts, calculators, assignment sheets, etc.).

D. Textbook Availability

A student of this institution is not under any obligation to purchase a textbook from a university-affiliated bookstore. The same textbook may also be available from an independent retailer, including an online retailer.

E. Licensed Concealed Campus Carry

No open carry of firearms is allowed on all property owned, controlled, or leased by the College District, including vehicles operated by the Alamo Colleges District. Concealed carry of a handgun by persons licensed to carry may not be restricted except in locations signed as prohibited areas.

- Special testing locations requiring a complete surrender of personal effects during testing will be signed as prohibited areas.
- Persons may be required to place their purse, backpack or briefcase away from their person, but within their view during tests at the direction of their instructor or test administrator.
- License holders carrying on campus intending to access prohibited areas must leave their weapons locked in their vehicles. College lockers are not authorized for storage of handguns by license holders.

Disciplinary Sanctions

Open carry, intentional display, unlicensed carry, and carry in spite of signed prohibition are subject to employee and student discipline, as well as possible prosecution. Unintentional display of a weapon by a license holder must be avoided. Police will exercise their enforcement discretion.

If you see a person openly carrying or deliberately displaying a firearm:

- Call the Alamo Colleges District Police 210-485-0911
- Do not confront the person or ask if the person has a permit

F. Title IX policy

Information and policy regarding Title IX, Civil Rights Discrimination, Harassment, and Retaliation can be found in Board Policy H.1.2 (https://www.alamo.edu/link/bddbd6057f27474b8207b6d6bcf9741e3.aspx).

COLLEGE REQUIREMENTS:

While other exams are given at the discretion of the instructor, a final assessment is given at the end of each semester for each course. The Final Exam Schedule changes with each term and differs from normal class meeting dates and times. See the Final Exam Schedule in the Catalog/Schedule of Classes in the left hand navigation bar.

A student who must be absent from a final evaluation should petition that instructor for permission to postpone the evaluation. A student absent without permission from a final evaluation is graded “0” on the exam.

Incomplete Grades. The conditional grade of "I" may be issued to a student having a passing average on all completed coursework but for a justified reason, such as illness or death in the family or by providential hindrance, has been prevented from taking the final examination or completing other required coursework. The “I” becomes an “F” in one hundred twenty (120) calendar days from the end
of the term unless the student completes the balance of the coursework with a performance grade of “D” or higher. Re-enrollment in
the course will not resolve the “I.” The student and faculty must fill out an Incomplete Contract, clearly defining the work remaining to
be finished.

★★ College Priorities

Student Success is our Priority.

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College Policies

COLLEGE POLICIES:

A. All of the colleges of the Alamo Colleges District are tobacco free.

B. Alamo Colleges District DPS Emergency Phone Numbers:
   
   Emergency Phone (210) 485-0911
   
   General Phone (210) 485-0099
   
   Weather Phone (210) 485-0189 (For information on college closures)

C. Students are required to silence all electronic devices (e.g., pagers, cellular phones, etc.) when in classrooms, laboratories and the
   library.

D. Credit Hours and Implications for Student Work: During the term in which a course is offered, students should expect to devote 48
   hours to the course for each credit hour awarded. For example, if the course awards three credit hours (two examples are English
   Composition and Federal Government), each student taking the course should expect to devote approximately 3 x 48, or 144 hours to
   the course, whether offered over a 16-week term, an 8-week term, or a term of any other length. Please plan for this time when
   creating your schedule for the term.

E. Student Responsibility for Success (Alamo Colleges District Policy F.6.2): As members of the PAC learning community, students,
   faculty, staff and administrators all share the responsibility to create an atmosphere where knowledge, integrity, truth, and academic
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Disability Access Statement – In accordance with the Americans with Disabilities Act (ADA) and Section 504 of the Rehabilitation Act, it is the responsibility of the student to self-identify with the campus Disability Services office. Only those students with appropriate documentation will receive a letter of accommodation from the Disability Services office. Instructors are required to follow only those accommodation and/or services outlined in the letter of accommodation. For further information, please contact the Disability Services office at (210) 486-3020 or visit the office located in the Palomino Center, Room 116. If you have specific needs, please discuss them privately with your instructor.