

AUSTIN COMMUNITY COLLEGE  
 MEDICAL LABORATORY TECHNOLOGY  
 MLAB 1331 Parasitology/Mycology  
 Course Syllabus  
 Spring 2012

Course Web Site: [www.austincc.edu/mlt/para/para](http://www.austincc.edu/mlt/para/para)

Course Outline and Schedule: [http://www.austincc.edu/mlt/para/para\\_schedule.html](http://www.austincc.edu/mlt/para/para_schedule.html)

Course Number and Name	Campus	Section	Synonym
MLAB 1331 Parasitology/Mycology	DIL	001	48936

FACULTY INFORMATION		
<b>Campus</b>	Distance Learning	Distance Learning
<b>Instructor</b>	Cecile Sanders, M.Ed., MLS (ASCP)	Dale Dingley, MPH, M (ASCP)
<b>Office Hours</b>	There are no scheduled office hours. A face-to-face appointment may be made with the instructors. Contact Ms. Sanders and/or Mr. Dingley via email, text or phone. They will respond to you within 8 hours, if between the hours of 8 AM and 9 PM. Also, students may ask an instructor for a live video chat via Skype. (Student would need to download free Skype software at <a href="http://www.skype.com/intl/en-us/get-skype/on-your-computer/windows/">http://www.skype.com/intl/en-us/get-skype/on-your-computer/windows/</a> AND have access to a computer camera.) Students with an Apple iPhone or iPad may also use Face Time.	
<b>Text/Cell Phone</b>	393-1307 Home Phone - 512-396-1501	512-659-0620
<b>Email</b>	<a href="mailto:csanders@austincc.edu">csanders@austincc.edu</a>	<a href="mailto:ddingley@austincc.edu">ddingley@austincc.edu</a>

COURSE INFORMATION	
<b>Campus</b>	Distance Learning
<b>Length of Course</b>	16 Weeks
<b>Dates</b>	January 17 through May 13, 2012

**Schedule:** There are NO on campus classes; all instruction will be on-line using Blackboard, streaming video, a required textbook, and internet websites. The schedule for completing instructional units and taking exams is listed under “Schedule” in Blackboard.

**Blackboard On-Line System:** This course will be conducted via the computer on-line Blackboard learning system and steaming videos. All students will be **required** to use the email address **issued by ACC** and to access course materials, learning activities, and exams on-line. (Students may forward their ACC email to their personal email accounts, if desired. Directions on forwarding gmail accounts can be found at <http://mail.google.com/support/bin/answer.py?hl=en&answer=10957>.) Students may use their home computers OR may access all materials and take exams at any public computer, including those in Learning Labs and libraries at all ACC campuses. The schedule (including open lab hours) for ACC Computer labs can be found at <http://irt.austincc.edu/CollegeComputers/>.

**ACC Student ID Card:** All students must obtain an ACC Student ID card. This card is needed for use of the ACC libraries, ACC Testing Centers and other ACC support services. ID cards may be obtained, after

registration, at an ACC Admissions and Records Office at ANY ACC campus. Bring a photo ID, such as driver's license, Sam's card, etc.

### **LAB 1331 – Parasitology/Mycology**

#### **Introduction**

A study of the taxonomy, morphology, and pathogenesis of human parasites and fungi, including the practical application of laboratory procedures, quality control, quality assurance, and safety.

#### **Prerequisites**

None

#### **End-of-Course Outcomes:**

By the end of this course the student should be able to:

- Apply principles of safety, quality assurance, and quality control
- Evaluate specimen acceptability
- Describe basic morphology and physiology of parasites and fungi
- Classify parasites and fungi
- Perform appropriate laboratory techniques used in the processing of specimens and identification of parasites and fungi
- Evaluate and correlate test results with patient condition(s)

#### **Program Learning Outcomes**

1. To provide students both academic instruction and professional training in the field of laboratory medicine to meet employment needs of Austin and surrounding communities.
2. Provide a climate conducive to stimulating interest in MLT education and participating in professional organizations, and encouraging awareness in changing trends in medical laboratory technology.
3. Produce graduates who meet entry level competency in the profession.
4. To produce skilled clinical laboratory workers who:
  - a. through general and technical education, are qualified to perform with minimal supervision, the tests routinely performed in clinical laboratories.
  - b. are able to collect, label, identify, and log in specimens accurately,
  - c. have a working knowledge of the principles of the tests they are performing,
  - d. keep accurate and legible records and are able to communicate reports clearly to fellow medical personnel,
  - e. are able to correlate test results in order to confirm them.
  - f. will strive for accuracy in the performance of tests and will make every effort to eliminate error through their ability to recognize irregularities in test results and procedures and make corrections according to preset strategies and criteria and refer them to more qualified personnel when appropriate,
  - g. are skillful in the operation of laboratory instruments,
  - h. are able to demonstrate and explain routine procedures to others in the laboratory,
  - i. will take responsibility for their own work and are able to organize their work to make the most efficient use of time,
  - j. will adapt well to various work situations,
  - k. maintain the confidentiality of patient results,
  - l. are constantly aware of patient welfare,
  - m. will co-operate with their co-workers and all members of the health care team,
  - n. are able to perform efficiently under stress,

- o. will strive to keep their competence and knowledge current in relation to the changing work environment,
  - p. will have the qualities of honesty and intellectual integrity beyond reproach,
  - q. are skillful in the operation of laboratory instruments and are able to recognize instrument failures and take appropriate actions, and
  - r. will actively participate in professional organizations in their specialty.
5. To carry out the education of each student in a manner this encourages further education, participation in community service, and maintenance of special interests in the field.
  6. To maintain accreditation of the program through the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS).
  7. To produce graduates eligible to take and pass a nationally recognized certification examination upon completion of the program.
  8. To maintain high academic and professional standards both in the program and in its students.
  9. To serve as a resource for the clinical laboratories in the Austin area.

**Methods of Presentation**

- Blackboard On-line Course System (<http://acconline.austincc.edu/>)
- Streaming videos (links are posted in Blackboard)
- Internet Resources
- Required Textbook

**SCANS**

The U.S. Department of Labor has established the Secretary's Commission on Achieving Necessary Skills (SCANS) to ensure that student's are gaining competencies that are required in the work place. The following competencies will be acquired upon completion of this course.

<b>SCANS COMPETENCY</b>	<b>Parasitology/Mycology Competencies</b>
Resources	Performs technical procedures such as reagent preparation, specimen collection, and processing of clinical specimens using a variety of standardized staining and concentration of techniques; performs macroscopic and microscopic examinations of processed specimens; detects and identifies stages of parasites present; organizes work and allocates materials and supplies in an efficient manner.
Interpersonal	Demonstrates an understanding of the profession of Medical Laboratory Technology while exhibiting professional and ethical behavior in dealing with patients and other medical professionals; maintains a professional demeanor and appearance.
Information	Evaluates quality control results ascertaining that results are within established parameters; reports out-of-range results to instructor; performs preventive maintenance on laboratory equipment; understands and practices approved safety techniques including Universal Precautions in all laboratory procedures; reports any accident or harmful situation to instructor.
Systems	Understands and implements corrective action when quality control results fall outside expected parameters; uses problem solving skills to troubleshoot unexpected circumstances.
Technology	Operates basic laboratory equipment; understands the intended use, care, and mechanical function of various types of microscopes and centrifuges; is competent in the use of computers and common

software.
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### Required Materials

Medical Parasitology: A Self-Instructional Text, Leventhal, Ruth, and Cheadle, Russell F., F.A. Davis.

**ISBN-13:** 978-0-8036-0788-0

**ISBN-10:** 0-8036-0788-1 Available in the ACC bookstore.

Students must also be able to access on-line material via a computer with Internet access, either from home or some other place, such as a library or learning resource center. High-speed Internet connection such as DSL or RoadRunner is preferable to more quickly download web sites and videos. Visit this Blackboard website <http://irt.austincc.edu/blackboard2/sysreq.html> to see the computer system requirements and for software downloads. The schedule (including open lab hours) for ACC Computer labs can be found at <http://irt.austincc.edu/CollegeComputers/>.

### Course Requirements, Examinations, and Grading

#### Student Evaluation

Three (3) regular examinations and one (1) final examination will be given in Blackboard covering on-line instructional material and will comprehensively assess the student's knowledge of concepts and principles. **These exams will be taken in Blackboard within the allowed time period. Each student is on the honor system to not use unauthorized materials while taking these exams.** There will be **no routine retests given**. If a student misses an exam deadline, a grade of "0" will be given.

In addition to the exams, assignments for each learning unit are to be completed. Also, a parasitology case study must be submitted by the deadline listed under "Schedule" in Blackboard. Finally, students will be graded according to their online participation, including parasitology case study postings, "Grow Your Own Fungus" project, and other projects, as assigned. **Assignments MUST be submitted by midnight on the deadline listed; 5 points will be deducted for each day the assignment is late, up to 5 days. Assignments submitted 6 or more days late will be graded and returned to the student, but the grade awarded will be "0".**

#### Determination of Final Grade

1. Average of three didactic examinations = 30%
2. Final exam = 20%
3. Assignments = 20%
4. Weekly Case Studies = 15%
5. Parasitology Case Study = 10%
6. "Grow Your Own Fungus" project = 5%

A passing grade (75% or better) is **required** in order to receive a passing grade for this course.

A = 90-100%

B = 80-89%

C = 75-79%

D = 60-74%

F = 59% and below

Incomplete - To receive an "I", a student must have a **passing average** (75% or better) and have completed at least 80% of the course work.

Withdrawal - Before considering withdrawal, please contact the instructor. The college places no limits on the number of courses a student may drop. However, state law limits the number of course withdrawals, with some exemptions and exceptions. See

<http://www.austincc.edu/cataloghtml/policies.php> for further information.

### **Attendance**

Although there are no on-site classes for this course, the student will be expected to post answers to case studies and projects at assigned intervals and to complete all assignments and exams by the deadlines posted in the Course Schedule. Students will be required to post questions on the instructional material under “Weekly Blog” in Blackboard, so that the instructors can post the answers for everyone in the class to see and learn from.

### **Promotion, Failure, and/or Dismissal from the Department**

A minimum grade of “C” (75%) is required in all medical laboratory technology courses. Any student may be dropped from this course and/or the MLT Program due to consistently failing to meet class assignments, for disruptive conduct, or for displaying conduct detrimental to the ethics of medical laboratory technology.

The student may utilize the approved Student Grievance Procedure of Austin Community College in the disposition of a grievance or complaint without fear of recrimination or retaliation as a result of filing a grievance. See <http://www.austincc.edu/current/needtoknow/> for further information.

The MLT faculty and staff understand that learning in group situations can be beneficial. However, each student is expected to demonstrate his/her own competency by doing his/her own work. Any student caught cheating on examinations or other assignments will be subject to disciplinary action, including an academic penalty and possible withdrawal from this course and/or the MLT Program.

Acts prohibited by the college for which discipline may be administered include scholastic dishonesty, including but not limited to cheating on an exam or quiz, plagiarizing, and unauthorized collaboration with another in preparing outside work. Academic work submitted by students shall be the result of their thought, research or self-expression. Academic work is defined as, but not limited to, tests, quizzes, whether taken electronically or on paper, projects, either individual or group; classroom presentations, and homework.

Each student is strongly encouraged to participate in class. In any learning situation that includes discussion and critical thinking, there are bound to be many differing viewpoints. These differences enhance the learning experience and create an atmosphere where students and instructors alike will be encouraged to think and learn. On sensitive and volatile topics, students may sometimes disagree not only with each other but also with the instructor. It is expected that faculty and students will respect the views of others when expressed in learning discussions.

### **Application for Admission to the ACC MLT Program**

Completion of this course does NOT guarantee admission to the MLT Program. Students wishing to apply for MLT Program admission must complete an on-line MLT Information Session (<http://www.austincc.edu/health/mlt/infosession/introMLT.php>), complete an application, successfully complete all prerequisite courses (including Phlebotomy), complete a series of three (3) Hepatitis B immunizations (these MUST be completed prior to Program admission), and undergo a Criminal History Background Check (after admission to the Program). For additional information on the admissions process or Hepatitis B immunization, see (<http://www.austincc.edu/health/>) or call 233-5700.

### **Students with Disabilities**

Each ACC campus offers support services for students with documented disabilities. Students with disabilities should apply for services with the Office for Students with Disabilities (<http://www.austincc.edu/support/osd/>) at the primary campus they expect to attend. Each semester

students need to meet with the OSD coordinator at all campuses they are attending in order to discuss accommodation needs. Sample accommodations include, but are not limited to, interpreters, note takers, registration assistance, and testing with accommodations. Students with disabilities are urged to apply for accommodations well ahead of, but no less than three weeks before, the start of a term for the accommodations to be prepared for the first day of classes. ACC works with the Texas Department of Assistive and Rehabilitative Services and community service organizations to provide support services to students.

### **Student Rights and Responsibilities**

Students at the college have the rights accorded by the U.S. Constitution to freedom of speech, peaceful assembly, petition, and association. These rights carry with them the responsibility to accord the same rights to others in the college community and not to interfere with or disrupt the educational process. Opportunity for students to examine and question pertinent data and assumptions of a given discipline, guided by the evidence of scholarly research, is appropriate in a learning environment. This concept is accompanied by an equally demanding concept of responsibility on the part of the student. As willing partners in learning, students must comply with college rules and procedures.

### **Safety Statement**

Austin Community College is committed to providing a safe and healthy environment for study and work. You are expected to learn and comply with ACC environmental, health and safety procedures and agree to follow ACC safety policies. Additional information on these can be found at <http://www.austincc.edu/ehs>. Because some health and safety circumstances are beyond our control, we ask that you become familiar with the Emergency Procedures poster and Campus Safety Plan map in each classroom. Additional information about emergency procedures and how to sign up for ACC Emergency Alerts to be notified in the event of a serious emergency can be found at <http://www.austincc.edu/emergency/>.

Please note: you are expected to conduct yourself professionally with respect and courtesy to all. Anyone who thoughtlessly or intentionally jeopardizes the health or safety of another individual will be dismissed from the day's activity, may be withdrawn from the class, and/or barred from attending future activities.

You are expected to conduct yourself professionally with respect and courtesy to all. Anyone who thoughtlessly or intentionally jeopardizes the health or safety of another individual will be immediately dismissed from the day's activity, may be withdrawn from the class, and/or barred from attending future activities.

### **Use of ACC Email**

All College e-mail communication to students will be sent solely to the student's ACCmail account, with the expectation that such communications will be read in a timely fashion. ACC will send important information and will notify you of any college related emergencies using this account. Students should only expect to receive email communication from their instructor using this account. Likewise, students should use their ACCmail account when communicating with instructors and staff. Instructions for activating an ACCmail account can be found at <http://www.austincc.edu/accmail/index.php>.

### **ACC Testing Center Policy**

Students using the Academic Testing Center must govern themselves according to the Student Guide for Use of ACC Testing Centers and should read the entire guide before going to take the exam.

To request an exam, one must have:

- **ACC Photo ID**
- Course Abbreviation (e.g., ENGL)

- Course Number (e.g., 1301)
- Course Synonym (e.g., 10123)
- Course Section (e.g., 005)
- Instructor's Name

Do NOT bring cell phones to the Testing Center. Having your cell phone in the testing room, **regardless of whether it is on or off**, will revoke your testing privileges for the remainder of the semester. ACC Testing Center policies can be found at <http://www.austincc.edu/testctr/>

**Statement of Understanding for MLAB 1331  
Parasitology/Mycology**

**After thoroughly reading and familiarizing yourself with course policies and procedures, complete the Statement of Understanding Form at the bottom of the main Syllabus page:**

[http://www.austincc.edu/mlt/para/para\\_syllabus.html](http://www.austincc.edu/mlt/para/para_syllabus.html)

**Due On or Before  
(By Midnight)  
Assignment or Exam**

**Sunday, January 29**

**Introduction to Parasitology**

1. Read chapters 1 and 7 in text
2. [Review video of Unit 1 Lecture](#)
3. While reviewing video, have the [Lecture Guide](#) open to correlate with Lecture video
4. Complete assignment for Unit 1 (under Assignment tab in Blackboard)
5. Respond to weekly questions or case studies

**Sunday, February 5**

**Nematodes**

1. Read chapter 2 in text
2. [Review video of Unit 2 Lecture](#)
3. While reviewing video, have the [Lecture Guide](#) open to correlate with Lecture video
4. [Review video of Unit 2 Lab](#)
5. Complete assignment for Unit 2 (under Assignment tab in Blackboard)
6. Respond to weekly questions or case studies

**Sunday, February 12**

**Cestodes**

1. Read chapter 3 in text
2. [Review video of Unit 3 Lecture](#)
3. While reviewing video, have the [Lecture Guide](#) open to correlate with Lecture video
4. [Review video of Unit 3 Lab](#)
5. Complete assignment for Unit 3 (under Assignment tab in Blackboard)
6. Respond to weekly questions or case studies

**Sunday, February 19**

**Trematodes**

1. Read chapter 4 in text
2. [Review video of Unit 4 Lecture](#)
3. While reviewing video, have the [Lecture Guide](#) open to correlate with Lecture video
4. [Review video of Unit 4 Lab](#)
5. Complete assignment for Unit 4 (under Assignment tab in Blackboard)
6. Respond to weekly questions or case studies

**Sunday, February 26**

- **Exam #1 - Covers all material for Units 1 through 4**
- Respond to weekly questions or case studies

**Sunday, March 4**

**Intestinal Protozoa**

1. Read chapter 5 in text
2. [Review video of Unit 5 Lecture](#)
3. While reviewing video, have the [Lecture Guide](#) open to correlate with Lecture video
4. [Review video of Unit 5 Lab](#)
5. Complete assignment for Unit 5 (under Assignment tab in Blackboard)
6. Respond to weekly questions or case studies

**Monday, March 19**

**Blood & Tissue Protozoa**

1. Read chapter 5 in text
2. [Review video of Unit 6 Lecture](#)
3. While reviewing video, have the [Lecture Guide](#) open to correlate with Lecture video
4. [Review video of Unit 6 Lab](#)
5. Complete assignment for Unit 6 (under Assignment tab in Blackboard)
6. Respond to weekly questions or case studies

**Sunday, March 25**

**Malaria**

1. Read chapter 5 in text
2. [Review video of Unit 7 Lecture](#)
3. While reviewing video, have the [Lecture Guide](#) open to correlate with Lecture video
4. [Review video of Unit 7 Lab](#)
5. Complete assignment for Unit 7 (under Assignment tab in Blackboard)
6. Respond to weekly questions or case studies
7. [Malaria Speciation Chart](#)

**Sunday, April 1**

- **Exam #2 - Covers all material for Units 5 through 7**
- Respond to weekly questions or case studies

**Sunday, April 8**

- **Parasitology Case Study due; information may be found in Blackboard under Assignments tab**
- Respond to weekly questions or case studies

**Sunday, April 15**

**Mycology Unit 1**

1. Mycology Unit 1 - [www.medtraining.org](http://www.medtraining.org)
2. Complete and submit study questions for Mycology Unit 1 (found in Blackboard under Assignments tab)
3. Respond to weekly questions or case studies

**Sunday, April 22**

**Mycology Unit 2**

1. Mycology Unit 2 - [www.medtraining.org](http://www.medtraining.org)
2. Complete and submit study questions for Mycology Unit 2 (found in Blackboard under Assignments tab)
3. Respond to weekly questions or case studies

**Sunday, April 29**

- **Exam #3 - Covers all material for Mycology**
- Respond to weekly questions or case studies

**Sunday, May 6**

- **Grow Your Own Fungus due - information may be found in Blackboard under the O.L. Participation tab**
- Respond to weekly questions or case studies

**Wednesday, May 9**

- **Comprehensive Final Exam (must be taken in an ACC Testing Center)**