<table>
<thead>
<tr>
<th>Section</th>
<th>25104</th>
<th>27167</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Campus</strong></td>
<td>Eastview</td>
<td>Round Rock</td>
</tr>
<tr>
<td><strong>Instructor</strong></td>
<td>Keri Brophy-Martinez</td>
<td>Keri Brophy-Martinez</td>
</tr>
<tr>
<td><strong>Office</strong></td>
<td>9336</td>
<td>3117.05</td>
</tr>
<tr>
<td><strong>Phone</strong></td>
<td>223-5877</td>
<td>223-5877</td>
</tr>
<tr>
<td></td>
<td>Cell : 536-0032 (no calls after 8 PM)</td>
<td>Cell : 536-0032 (no calls after 8 PM)</td>
</tr>
<tr>
<td><strong>Email</strong></td>
<td><a href="mailto:kbrophym@austincc.edu">kbrophym@austincc.edu</a></td>
<td><a href="mailto:kbrophym@austincc.edu">kbrophym@austincc.edu</a></td>
</tr>
<tr>
<td><strong>Office Hours</strong></td>
<td>Mondays by appointment only</td>
<td>Mondays : 3:00-4:00 PM</td>
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<tr>
<td></td>
<td>Wednesdays at EVC : 8:30-10:00 AM 3:00-5:30 PM</td>
<td>Wednesdays at EVC : 8:30-10:00 AM 3:00-5:30 PM</td>
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<tr>
<td></td>
<td>Others by appointment</td>
<td>Others by appointment</td>
</tr>
<tr>
<td><strong>Lecture</strong></td>
<td>8:30-9:30 AM</td>
<td>4:00-5:00 PM</td>
</tr>
<tr>
<td><strong>Lecture Room</strong></td>
<td>9231</td>
<td>3121.01</td>
</tr>
<tr>
<td><strong>Laboratory</strong></td>
<td>9:45 AM- 1:45 PM</td>
<td>5:15- 9:15 PM</td>
</tr>
<tr>
<td><strong>Laboratory Room</strong></td>
<td>9101</td>
<td>3121.00</td>
</tr>
</tbody>
</table>

**Length of Course:** 16 weeks

**Number of Hours (approximate):**
Classroom hours = 48
Laboratory = 64
Course Web Site - [http://www.austincc.edu/mlt/chem/chem](http://www.austincc.edu/mlt/chem/chem)

Students will access and print out course materials from the course web site. Assessment activities are provided as a means of assisting students in determining their level of competence in given areas as well as to assist in reviewing for examinations. Assignments will be posted to enhance the student's learning experience.

Blackboard On-Line System:

A considerable portion of this course will be conducted via the computer on-line Blackboard learning system. All students will be required to have an email address and to access course materials, learning activities, and exams on-line. 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.

How to Log Into Blackboard

1. To access Blackboard, go to [http://acconline.austincc.edu/](http://acconline.austincc.edu/)
2. Enter your ACCeID and ACCeID Password in the provided boxes, and then click on the “Login” button.
3. Access your course(s) by clicking the course title located in the My Courses module.
4. ACC Blackboard support website is [http://irt.austincc.edu/blackboard/](http://irt.austincc.edu/blackboard/).

Technology Expectations

You must have access to a computer with a live Internet connection, either at home, library, or ACC campus. A 56K modem connection is recommended. A Mozilla Firefox 3.5 browser is recommended, although Internet Explorer 7 and 8, and Safari 4.3.2 can be used. AOL is NOT supported by Blackboard. Cookies, JavaScript, Active Scripting, and Pop-up Windows must be enabled in the browser you use.

Java 1.5 and Adobe Flash Player are required and may be downloaded from [http://irt.austincc.edu/blackboard/sysreq.html](http://irt.austincc.edu/blackboard/sysreq.html). Other software that may be needed can be downloaded at [http://irt.austincc.edu/blackboard/software.html](http://irt.austincc.edu/blackboard/software.html).
MLAB 2401 – Clinical Chemistry

Course Description
This course will provide an introduction to the principles and procedures of various tests performed in Clinical Chemistry at the sophomore MLT level. The course will present the physiological basis, principle and procedures and the clinical significance of test results, including quality control and reference values. Emphasis is placed on basic chemical laboratory technique, safety, electrolytes, acid-base balance, proteins, carbohydrates, lipids, enzymes, endocrine function, TDM, and toxicology. In addition, brief sections on measurements of DNA analysis and tumor markers are also included.

Prerequisites
Students must be accepted into the MLT Program. Students must have taken CHEM 1305 and CHEM 1105. Special status students must have basic knowledge of chemistry.

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

- Exhibit a knowledge of body chemistry levels under healthy or abnormal conditions.
- Properly evaluate the suitability of clinical chemistry specimens.
- Properly prepare chemistry specimens for analysis.
- Accurately record and report results, indicating normal and abnormal values.
- Evaluate quality control results and note trends, shifts and invalid results.
- Discuss recent trends in clinical chemistry.
- Demonstrate speed and accuracy in the analysis of chemistry specimens for the following types of procedures utilizing only necessary supplies and within a predetermined/reasonable amount of time.
  1. Weights and measures
2. Reagent preparation and use
3. Color spectrophotometric
4. Coulometric titration
5. Enzymatic
6. Electrophoretic
7. Other test procedures as available

- Explain the principles of the above procedures and describe the clinical importance of abnormalities.

COURSE OBJECTIVES
When you go to the course website each unit will have a set of objectives. Print these out and use them to study the course materials. Exam questions are created from the course objectives. Each laboratory exercise will have objectives. One helpful way to study is write the objective on an index card and write the information pertaining that objective on the back.

The following affective objectives pertain to the classroom and clinical components:
1. Demonstrate professionalism by
   a. complying with the attendance policy
   b. complying with the dress code
   c. submitting assignments by the stated deadline
2. Demonstrate enthusiasm and interest in the profession of coagulation by asking questions, participating in class discussions and meeting with professors during office hours as needed.
3. Demonstrate initiative by reviewing objectives and completion of reading assignments prior to class.
4. Demonstrate progression in laboratory skills by effective organization, coordination of multiple tasks and insightful evaluation of results obtained.
5. Utilize constructive criticism to correct deficiencies and improve performance.
6. Work cooperatively with professors and fellow students to achieve the goals of each activity assigned.
7. Participate in activities designed to advance the profession of CLS and build professional pride.
8. Participate in activities to encourage an ongoing involvement in
professional development.

**Instructional Methodology**

- Lecture and Power Point Presentations
- Blackboard On-line Course System (http://acconline.austincc.edu/)
- Laboratory Practice
- Audio-Visual Materials
- Internet Resources
- Case study/shared learning events
- Supplemental Training Software
  
     
     You are already entered as a user for this software. If you have forgotten your log-in and/or password information, contact the instructor.
The U.S. Department of Labor has established the Secretary’s Commission on Achieving Necessary Skills (SCANS) to ensure that students are gaining competencies that are required in the workplace. The following competencies will be acquired upon completion of this course.

<table>
<thead>
<tr>
<th>SCANS COMPETENCY</th>
<th>Clinical Chemistry Competencies</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resources</td>
<td>Identify reagents and supplies needed for each lab, organize work so that the reagents, supplies, and equipment are utilized appropriately and work is completed within a reasonable time frame.</td>
</tr>
<tr>
<td>Interpersonal</td>
<td>Recognize limitations of expertise during the performance of procedures and communicate with instructor when problems arise. Maintain confidentiality of patient samples utilized. Demonstrate respect for fellow students during class and lab time. Utilize the Internet to interact with laboratory science students through the Blackboard communication system and regular email programs.</td>
</tr>
<tr>
<td>Information</td>
<td>Apply knowledge gained from lecture, laboratory and the textbook to troubleshoot and problem solve laboratory results obtained during student laboratory. Utilize the Internet and other library resources to acquire information about specific topics as they relate to the field of Clinical Laboratory Science.</td>
</tr>
<tr>
<td>Systems</td>
<td>Apply critical thinking skills to clinical laboratory problems encountered, specifically, utilizing clinical laboratory principles and theories and applying these to results obtained.</td>
</tr>
<tr>
<td>Technology</td>
<td>Achieve competency in routine clinical laboratory procedures utilizing a variety of reagents, supplies and techniques. Utilize provided procedures to obtain appropriate information for performing and troubleshooting clinical laboratory procedures, and determining clinical significance and normal values. Use computers, the Internet, and the Blackboard system to access course materials and other relevant course information.</td>
</tr>
</tbody>
</table>
COURSE MATERIALS

Required
- Gloves, latex or nitrile NOT vinyl
- Scrubs-appropriately fitting and professional in appearance
- Pocket calculator
- Sharpie permanent marking pen
- Digital timer capable of counting seconds
- Notebook
  - All laboratory exercises and study questions must be organized, preferably in a binder or notebook, for validation by the instructor.
- Sunheimer student website: myhealthprofessionskit.com
- MLAB 2401 Course Outline/Objectives and Lab Manual (Available in Blackboard or on MLT website)
- MLAB 2401 Power Point Presentations (Available in Blackboard or on MLT website)
- Recommended: Medical Dictionary and General Laboratory Test Interpretation book

Course Requirements, Examinations, and Grading

Time Commitment

According to “Hints on How to Succeed in College Classes” http://tinyurl.com/3dqe8q you should budget your time per week for this four hour credit course as follows:

- Reading assigned text 2 to 3 hours
- Homework assignments 3 to 6 hours
- Time for review and test preparation 3 hours
- Total study time per week 9 to 13 hours PER WEEK
Instructor Recommendations
Due to the hybrid nature of this course, the instructor recommends that the student follow the below process in preparation for each class day:
1. Print out and review the course objectives.
2. Print out the Powerpoint in note form.
3. Listen to the presentation and take notes as appropriate.
4. Write down questions that you have as you review the material.
5. Look the questions up in the required textbook or review the PowerPoint slides again.
6. If you are still confused on a concept or principle, submit the question(s) when you walk into the classroom and these questions will be used as discussion items during the “guided lecture.”
7. As soon as you start to get lost in understanding the material, do not wait to speak with the instructor. Make an appointment or email her as soon as possible.

Admission Ticket
MLAB 2401 Clinical Chemistry is a “hybrid” course. A portion of the lecture component is taught on campus and the remaining portion is self-directed learning. To insure that students are committing the necessary time to prepare for the classroom lecture component an Admission Ticket must be completed prior to coming to class. The questions will address the objectives, reading material and power points. The student will also be able to develop a list of questions to ask during the lecture presentation on topics they are having difficulty with.

The admission ticket must be submitted at the beginning of each class period in order to be allowed entry into the classroom. If the admission ticket is not completed the student will not be allowed into class until it is completed. The student will be required to go to some other location and complete the assignment.

Use of Electronic Devices
Whether in lecture or laboratory, students are to only access course related sites. No social networking, instant messaging, email, etc. are allowed during class or
laboratory time. This includes the use of PCs, laptops, mobile phones, etc. Students may perform these types of activities during designated breaks. Our student laboratory is considered “contaminated” as we work with human blood and body fluids. If a student wishes to use their laptop in the laboratory it must be set up in the designated “clean” area.

Dress Code
The student will be expected to attend class clean and neatly dressed and wear closed-toe shoes. A disposable laboratory coat will be issued to each student and must be worn snapped during all laboratory sessions. Hair that is shoulder length or longer must be worn up or securely tied back. Gloves must be worn when handling biological materials.

Student Evaluation

Measurement, Written
Approximately eight (8) examinations will be given in Blackboard over lecture material covering lecture and the accompanying laboratory exercises, and will comprehensively assess the student’s knowledge of concepts, principles, techniques and procedures as related to the instructional material. These exams will be taken in Blackboard and will be timed. 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 one exam, the grade of the final exam will be averaged in the place of the missed exam grade. If any other exams are missed, grades of “0” will be given.

Measurement, Practical
Proficiency in clinical laboratory skills will be measured by performance of required skills within specific tolerance limits of each procedure. Points will be awarded for successful completion of laboratory exercises. A pre-lab assessment may be given at the beginning of each laboratory session. Study questions will reinforce theory and announced written and practical exams will be given. In addition, student performance in the laboratory is evaluated using the following criteria:
- Attendance at the laboratory sessions is very important. It will not be possible to make up a missed laboratory assignment due to specimen, reagent, and/or professor availability. The student will be given a grade of “0” for the missed lab. Competency for missed lab skills will be assessed by performing lab assignments with parallel theory and principle to the missed lab.
- Familiarity with procedure.
- Setting up and performing procedure.
- Appropriate specimens are obtained and utilized.
- Proper handling, labeling and disposal of specimens, tubes, etc.
- Proper use of equipment, glassware and pipettes.
- Organization and performance of individual tasks.
- Completion of tests within a reasonable amount of time.
- Clean up of work area.
- Care and cleaning of microscopes, which are assigned by number to each student.

Determination of Final Grade

**Lecture** - 2/3 of final grade
- Exams in Blackboard= 50%
- Assignments/Quizzes/Course Project=5%
- Admission Tickets= 5%
- Final in class= 40%

**Laboratory** - 1/3 of final grade
- Laboratories = 45%
- Study Questions = 15%
- Practical= 40%

Late Work Policy
Assignments are due by the dates stated on the course schedule.
For each day past the due date that an assignment or lab is due, a 10% penalty will be assessed. Any assignment/lab turned in after one week of the due date will still be corrected; however, a grade a "0" will be given.
At the discretion of the instructor, an "amnesty day" may be given where the students may turn in late work without penalty. Notification of this date will occur by email and announced in class.

**Grading System**
A passing grade (75% or better) is **required** in both the lecture and laboratory components 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. We will assist you in any way possible with problem areas.

**Attendance Policy: Lecture & Lab**

It is the student's decision to take this class. Therefore, once the student makes this decision, he/she has responsibilities to everyone else in the community of learners. Excellent attendance and punctuality are key behaviors which
demonstrate responsibility and commitment to a successful learning experience. It is this commitment to learning that will enable the student to progress satisfactorily towards completion of course goals and objectives. Additionally, we want the student to set a pattern of professional behavior which mirrors the attendance expectations in the true clinical environment.

Regular and punctual attendance is required at all lecture and lab sessions. Class roll will be taken during each class period.

Tardiness to class is strongly discouraged. Important announcements are made at the beginning of class which may not be repeated. Tardiness in excess of 5 minutes will not be tolerated on class days where presentations, practicals or finals are given. If the student is late, he/she may receive a point deduction counted against the assignment or exam.

Notification of your absence, by phone or email must be provided to your instructor in a timely manner, preferably 30 minutes prior to class but within 2 hours of the class start time. Attendance demonstrates professionalism and regular and punctual attendance is the expectation in the professional workplace setting. Due to the nature of our courses, each class serves as a building block of knowledge for the next class session. Each student is responsible for making up all assignments, materials, examinations etc. when absent from class. All missed lab exercises must be completed to verify completion of the course objectives. Make-up exercises or alternative learning experiences will be planned according to the limits set by the instructor. However, the amount of credit awarded for the exercise, will be no greater than 80%. Once a student has incurred 2 absences, for whatever reason, the progressive discipline policy will be initiated:

- **2** absences - verbal conference with instructor that will define what policy is not being met, as well as set up an action plan with a follow up conference date
- **4** absences - conference report with instructor stating what actions will be necessary to avoid probation
- **5** absences - probation
- Withdrawal- terms of probation were not met
Withdrawal is based on absences equal to or greater than 25% of the material. The attendance policy is subject to review and modification by department officials.

WEATHER DELAYS AND CANCELLATIONS
ACC may cancel classes due to inclement weather. If classes are in session, the campus manager or a designee will notify instructors and students of canceled classes. If classes are not in session, ACC will notify the public through local radio and television stations as well as ACC’s Channel 19. Students, instructors, and staff should consult local media regarding resumption of classes. To comply with the Texas Education Code, make-up classes may be scheduled.

Academic Dishonesty

Under no circumstances shall a student submit work that is not their own. Collusion, copying answers for study questions, cheating on exams and/or submitting laboratory results which are not your own are expressly prohibited. Collusion is defined as the unauthorized collaboration with another person in preparing written work for fulfillment of course requirements.

Faculty members who suspect a student of cheating shall follow the “Academic dishonesty process” published in the Austin Community College Student Handbook http://www.austincc.edu/handbook/. Depending upon the severity of the offense either an academic penalty or dismissal from the program will occur.

Academic dishonesty such as, but not limited to, the following may result in IMMEDIATE dismissal from the MLT program and withdrawal from all MLT courses. If the withdrawal date has passed the student will be given a “D” for each course.

1. Submitting homework assignments copied from others. Both the student and the student that the materials were borrowed from will receive a "0" for the assignment and may be subject to the Academic Dishonesty Process and dismissal from the program.
2. Falsifying laboratory results.
3. Printing out examinations.

**Student Assistance Policy**

It is the sincere desire of the program faculty to aid each student in developing his/her professional potential. Academic, clinical, and those personal problems that interfere with the student’s development are of concern to the faculty. The program faculty has adopted the following policy:

**Personal Problems**

The MLT student should feel free to make an appointment to discuss problems of a personal nature with a faculty member of his/her choice. In addition, the Health Science counselors are available for the student for additional counseling, if necessary.

**Academic Problems**

Problems encountered in the MLT lecture and/or laboratory sections should be brought to the attention of the course instructor. The instructor will work with the student to resolve the problem. If the student feels he/she cannot reach an agreement with the instructor, the student with the instructor should present the situation to the Program Director. All discussions with the faculty will remain confidential.

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

A minimum grade of “C” (75%) is required in both the lecture and laboratory components of all medical laboratory technology courses. If the student fails to achieve a 75% in either the lecture or laboratory component of the course, the student will be given a “D” and be withdrawn from the MLT program.

Any student may be dropped from the program due to excessive absences and/or consistently failing to meet class assignments, for disruptive conduct during lecture or lab 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 as detailed in the ACC Student Handbook (http://www.austincc.edu/handbook/index.htm) in the disposition of a grievance or complaint without fear of recrimination or retaliation as a result of filing a grievance.

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, on unknowns, or sharing lab results will be subject to disciplinary action, including an academic penalty and possible withdrawal from the 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 classroom 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 classroom discussions.

Students with Disabilities
Each ACC campus offers support services for students with documented physical or psychological disabilities. Students with disabilities must request reasonable accommodations through the Office for Students with Disabilities on the campus where they expect to take the majority of their classes. Students are encouraged
to do this three weeks before the start of the semester.
(http://www.austincc.edu/support/osd/)

SPECIAL LABORATORY REQUIREMENTS

1. It is the responsibility of the student to come prepared for each laboratory session by reading the procedure prior to the laboratory session.
2. A pre-test may be given at the beginning of each lab exercise to ensure readiness to perform the procedure.
3. Each student is responsible for their own work. If you are having difficulty with a particular procedure do not bother students around you. Any questions you have about the procedure, reagents or supplies should be directed to the instructor.
4. Talking is strongly discouraged during laboratory exercises.
5. Each student is responsible for cleaning up their work area. This will be closely monitored by the instructor.
6. The use of electronic devices during lecture and laboratory is prohibited. This includes the use of cell phones and MP3 players.
LABORATORY SAFETY REGULATIONS

Standard Precautions
Since medical history and examination cannot reliably identify the infectivity of all patients' blood and body fluids, universal precautions should be followed for all patients. The concept of universal precautions was first introduced in 1987 by the Centers for Disease Control (CDC) to decrease the occupational risks of blood-borne diseases such as AIDS and hepatitis B to healthcare workers. The application of universal precautions is continually evolving; all body fluids may soon be handled with the same precautions as blood. This further application is already occurring in some labs, and is known as Body Substance Isolation. Precautions specific for clinical laboratories:

Use barrier protection routinely to prevent skin and mucous membrane contamination with blood or other body fluids.
1. Wear gloves:
   a) When cuts, scratches, or other breaks in skin are present.
   b) When performing phlebotomy.
   c) When collecting capillary blood specimens.
   d) Anytime it appears that contamination of the hands may occur.
   e) Change gloves after each patient contact or when visibly contaminated with blood.

2. Wear a mask, eye glasses or goggles, or face shield during procedures that are likely to generate droplets of blood or other body fluids to prevent exposure of the mucous membranes of the mouth, nose, and eyes.

3. Wear a fluid-resistant gown, apron, or other covering when there is a potential for splashing or spraying of blood or body fluids onto the body.

4. Wash hands or other skin surfaces thoroughly and immediately if contaminated with blood or other body fluids.

5. Wash hands immediately after gloves have been removed even when no external contamination has occurred. Organisms on the hands multiply rapidly in the warm moist environment within the glove.

6. Handle laboratory instruments, especially needles and scalpel blades, with
extreme caution.

7. Place used needles, disposable syringes, skin lancets, scalpel blades, and other sharp items into a puncture-resistant biohazard container for disposal. The container should be located as close as possible to the work area. Phlebotomists should carry puncture-resistant containers with them on their phlebotomy tray.

8. Needles should not be recapped, purposely bent, cut, broken, removed from disposable syringes, or otherwise manipulated by hand. If recapping is unavoidable (blood gas syringes, etc.), do it with one hand and use great caution.

9. Place large-bore reusable needles (bone marrow, biopsy needles, etc.) and other reusable sharp objects into a puncture-resistant container for transport to the reprocessing area.

10. Use mouth pieces, resuscitation bags, or other ventilation devices during emergency resuscitation procedures.

11. Exudative lesions or weeping dermatitis should be covered with an occlusive dressing to prevent contamination.

12. All specimens of blood and body fluids should be put in well-constructed containers with secure lids to prevent leaking during transport. Care should be taken when collecting each specimen to avoid contaminating the outside of the container and the laboratory form accompanying the specimen.

13. Use biological safety hoods (Class 1 or 2) for procedures that have a high potential for generating droplets (e.g., blending, sonicating, and vortexing).

14. Fill evacuation tubes, vials, and bottles by using their internal vacuum only. If a syringe is used, the fluid should be transferred to an evacuation tube by puncturing the diaphragm of the rubber stopper and allowing the correct amount of fluid to flow slowly into the tube along the wall. The tube should not be hand held when puncturing the top. Never force fluid into an evacuation tube by exerting pressure on the syringe plunger.
15. Use mechanical pipettes for manipulating all liquids (including body fluids, chemicals, or reagents) in the laboratory.

16. Decontaminate all laboratory work areas with an appropriate chemical germicide after a spill of blood or other body fluids and when work activities are completed. Laboratory countertops should be disinfected at least once per shift.

17. Rinse off all body fluids from reusable contaminated equipment prior to reprocessing according to your institution policies.

18. Clean and decontaminate scientific equipment that has been contaminated with blood or other body fluids before being repaired in the laboratory or transported to the manufacturer. Always follow manufacturer’s recommendations.

19. Pregnant laboratory workers are not thought to be at greater risk of infection than others in the laboratory. However, if an infection does develop during pregnancy or the mother is a carrier prior to the pregnancy, the infant is at risk of infection by perinatal transmission. Therefore, pregnant laboratory workers should be especially aware of universal precautions.

20. Microscopes will be assigned. They must be cleaned and properly stored or points will be deducted from lab grade.

General Comments
Most exercises will take 2 or 3 laboratory periods to complete (i.e., gathering data from previous inoculation). It will be necessary, therefore, to bring each laboratory exercise to every laboratory period.

Each person will be responsible for his own work (no sharing results) and for cleaning up his own work area.

Open laboratory hours will be posted. This course will endeavor to provide the student with the most comprehensive experiences possible, but will rely mainly on the commonly measured differential characteristics of select bacterial groups.
Clinical Chemistry (MLAB 2401)
Statement of Understanding

Please write your first name and last initials on EACH LINE which confirms that you have read and understand the MLAB 2401 Course Syllabus including:

- ______ Course Goals
- ______ Course Requirements and Regulations
- ______ Enrollment in companion website for textbook
- ______ Time Commitment
- ______ Admission Ticket requirements
- ______ Dress Code
- ______ Evaluation Criteria for Lecture and Lab
- ______ Late work policy
- ______ Attendance Requirements
- ______ Requirements for Promotion, Failure and Dismissal from the Program
- ______ Policies, procedures and requirements for clinical practice, with special emphasis to those referring to safety

I agree to abide by all of the policies, procedures and requirements stated within.

__________________________________________________________________________

Signature                                            Date

__________________________________________________________________________

Printed Name