PLANTING A GARDEN OF PRIDE

First, plant five rows of peas...
Preparation, Patience, Presence, Promptness, and Perseverance

Then, plant three rows of squash...
Squash gossip, Squash interference, Squash indifference, Squash unjust criticism.

Add five rows of lettuces...
Let us be faithful to duty, Let us be unselfish and loyal, Let us be true to our obligations, Let us obey rules and regulations, and let us be kind to one another.

And since no garden is complete without them, finally plant turnips...
Turn up with a winning attitude, Turn up with a smile, Turn up with new ideas, Turn up with determination to make everything count for something.
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This handbook is intended to serve you as a complete and concise information source about Florida Gulf Coast University’s Clinical Laboratory Science Program. Please take time to read it. If there are any concerns or questions, do not hesitate to contact the FGCU faculty. Our goal is to provide you with the best possible education. We will work toward that goal during your educational experience with us. You have been identified and selected to participate in our program because we believe you have the aptitude, commitment, and the desire to become a professional. Congratulations! And best wishes for continued success.

FACULTY AND STAFF DIRECTORY

<table>
<thead>
<tr>
<th>Name</th>
<th>Room</th>
<th>Telephone</th>
<th>E-Mail Address</th>
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</thead>
<tbody>
<tr>
<td>Julie Zemplinski, M.S.H., M.S.</td>
<td>Marieb – 404</td>
<td>590-7453</td>
<td><a href="mailto:jzemplinski@fgcu.edu">jzemplinski@fgcu.edu</a></td>
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<td>CLS Program Director</td>
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<tr>
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<td></td>
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<tr>
<td>Pamela St. Laurent, Ed.D.</td>
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<tr>
<td>Clinical Lab Science Instructor/Clinical Coordinator</td>
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</table>
**CLS PROGRAM MISSION STATEMENT**

The mission of the Program of Clinical Laboratory Science is to improve the health of society by educating and preparing competent, resourceful, and adaptable individuals with the knowledge, skills and attitudes that are required to fulfill current and future professional roles and leadership positions as members of the health care team.

**CLS PROGRAM GOALS**

The CLS Program will achieve the following goals to meet current and future needs:

1. Graduate well-educated, technically competent practitioners who are able to interpret, assess validity, and correlate clinical laboratory data.
2. Prepare graduates to pass national certification examinations in order to enter professional practice.
3. Instill the highest standards of performance and professional ethics in all graduates.
4. Provide graduates with the tools that promote independent judgment and successful problem solving skills.
5. Graduate professionals who effectively communicate with all members of the healthcare team.
6. Maintain accreditation for the CLS Program by the National Accrediting Agency for Clinical Laboratory Science.
7. Maintain approval for the CLS Program by the State of Florida Department of Health, Board of Clinical Laboratory Personnel program.
8. Recruit an academically strong and diverse pool of students.
9. Continue development of distance learning course components to augment the curriculum and the program.
10. Participate in community outreach activities with faculty and students.
11. Continue assessment of the program to meet the changing needs of the Southwest Florida laboratory community.
FACULTY COMMITMENT

In accordance with the mission of the Clinical Laboratory Science Program, the faculty has a responsibility to:

- Demonstrate exemplary qualities of professionalism, leadership, integrity and compassion through which each student can understand the service, dedication, and continual learning in a chosen field.
- Provide a curriculum with clinical/field experience by professional and qualified educators under which the abilities of critical thinking can develop and mature.
- Involve students in community-partnered affiliates for professional and progressive experience.
- Ensure that all students are selected and educated in an atmosphere of fairness and equality.
- Encourage student and faculty involvement in professional organizations.
- Foster continuing education as a source of lifelong learning.
- Promote active participation of faculty and students in community-based service.
- Foster active participation of faculty and students in collaborative, interdisciplinary, scholarly and research activities.
- Provide an educational experience for the student who, upon graduation, will be professionally competent and academically competitive in professional and graduate school opportunities.

STUDENT RESPONSIBILITIES

As a student in the Clinical Laboratory Science Program you are responsible for complying with the policies and procedures of the University, Marieb College of Health & Human Services, Department of Health Sciences, and Clinical Laboratory Science Program. The information provided to you in this guidebook is designed to supplement the FGCU Student Guidebook and other University policies and procedures.
GRADUATE GOALS AND OBJECTIVES

As a reflection of the Clinical Laboratory Science faculty and clinical educators’ leadership and exemplary curriculum, program graduates will be able to demonstrate the following expected core learning outcomes.

**Content/Discipline Knowledge and Skills**

Graduates will be able to:
1. Collect, process, and analyze biological specimens from patients, such as body fluids, cells, and other substances, according to established clinical laboratory protocol.
2. Practice safety procedures in the clinical laboratory environment.
3. Practice high standards of ethical behavior in interactions with patients, clients, and other health care professionals.
4. Using the principles of research and inquiry, investigate clinical laboratory science problems, offer plausible solutions, and discuss findings.
5. Demonstrate effective and appropriate communication skills in the clinical laboratory science field.

**Communication Skills**

Graduates will be able to:
1. Employ the conventions of standard written English.
2. Select a topic, and develop it for a specific audience and purpose, with respect for diverse perspectives.
3. Select, organize, and relate ideas and information with coherence, clarity, and unity.
4. Demonstrate effective and appropriate communication skills in a health science field.

**Critical Thinking Skills**

Graduates will be able to:
1. Select and organize information.
2. Identify assumptions and underlying relationships.
3. Synthesize information, and draw reasoned inferences.
4. Formulate an appropriate problem solving strategy.
5. Evaluate the feasibility of the strategy.
6. Assess needs, develop priorities, and implement solutions to problems using discipline specific and interdisciplinary approaches in health sciences.
STUDENT LEARNING OUTCOMES
FOR THE CLS PROGRAM

SLO 1 Collect, process and analyze biological specimens from patients such as body fluids, cells, and other substances, according to established laboratory protocol and understand theoretical content.

ALC 1 Content/Discipline Knowledge Skills

Measures: 1. competency checklists for each clinical practicum course
2. discipline specific MLS mock board exams
3. national board exam pass rates
4. graduate surveys
5. post-graduate surveys
6. employer surveys

Expected Performance Outcome:

1. 80% of students will achieve 70% or higher on each checklist
2. 80% of the students will achieve 65% or higher on exams
3. 80% of the students will pass the board exam
4. Average scale score of 2 or higher
5. Average scale score of 2 or higher
6. Average scale score of 2 or higher

SLO 2 Practice safety procedures in the clinical laboratory environment.

ALC 1 Content/Discipline Knowledge

Measures: 1. Online safety quiz in course MLS 3038 Essentials in Clin Lab Science
2. Clinical practicum evaluations

Expected Performance Outcome:

1. 80% of students achieve an 80% or higher on safety quiz
2. 100% of students will achieve 100% on each evaluation in the area of safety
SLO 3 Practice high standards of ethical behavior in interactions within healthcare settings.

ALC 1 Content/Discipline Knowledge Skills


Expected Performance Outcome:

1. 80% of students will score a 75% or higher on each evaluation

SLO 4 Using the principles of research and inquiry, investigate health science problems, offer solutions and discuss findings.

ALC 1 Content/Discipline Knowledge Skills
ALC 2 Communication Skills
ALC 3 Critical Thinking Skills

Measures: 1. Case study grades in MLS didactic courses (one each semester)
   2. Final grade in Senior Seminar IHS 4938
   3. Grades on 5 written assignments (3 case studies, healthcare role profile paper, and middle management interview) in Leadership IHS 3203

Expected Performance Outcome:

1. 80% of the students score 70% or higher
2. 80% of the students score 80% or higher
3. 80% of the students score 70% or higher
CURRENT CLINICAL AFFILIATES

LEE MEMORIAL HEALTH SYSTEM (Fort Myers)
Lee Memorial Hospital  2776 Cleveland Ave Ft. M 33901
HealthPark Medical Center  9981 S. HealthPark Dr. Ft. M 33908
Cape Coral Hospital  636 Del Prado Blvd. Cape Coral 33990
Gulf Coast Medical Center  13681 Doctor’s Way Ft.M 33912

NAPLES COMMUNITY HEALTHCARE SYSTEM (Naples)
Naples Hospital - Downtown  350 7th Street North Naples 34102
North Naples Hospital  11190 Healthpark Blvd. 34110

CHS (Naples, Punta Gorda, Port Charlotte)
Physician’s Regional Med Center  8300 Collier Blvd. Naples 34114
Bayfront Port Charlotte  2500 Harbor Blvd. Port Char 33952
Bayfront Punta Gorda  809 E. Marion Ave. Punta Gorda 33950

MEMORIAL HEALTH SYSTEM (Hollywood)
Memorial Regional Hospital  3501 Johnson St. Hollywood 33021
Memorial Hospital West  703 N. Flamingo Rd. Hollywood 33028
Memorial Hospital Miramar  1901 S.W. 172nd Ave. Miramar 33029
Memorial Hospital Pembroke  7800 Sheridan St. Pembroke Pines 33024
Memorial Regional Hospital South  3600 Washington St. Hollywood 33021

BETHESDA HEALTH (Boynton Beach)
Bethesda Hospital East  2815 S. Seacrest Blvd. Boynton Beach 33435

BAY PINES VA HEALTH CARE SYSTEM (Bay Pines)
C.W. Bill Young VAMC  10,000 Bay Pines Blvd. Bay Pines 33744

Advent Health (Sebring, Tampa)
Heartland Medical Center  4200 Sun’n Lake Blvd. Sebring 33872
Advent Health Tampa  3100 E. Fletcher Ave. Tampa 33613
Advent Health Wesley Chapel  2600 Bruce B. Downs Blvd. Wesley Chapel 33544

SARASOTA MEMORIAL HEALTH CARE SYSTEM Sarasota)
Sarasota Memorial Hospital  1700 S. Tamiami Trail Sarasota, FL 34239

INTEGRATED REGIONAL LABORATORIES (Ft. Lauderdale)
Integrated Regional Laboratories  5361 NW 33rd Ave. Ft. Lauderdale 33309

Wellington Regional Medical Center (Wellington, FL)
Wellington Regional  10101 Forest Hill Blvd. Wellington 33414
## COMMUNITY ADVISORY COUNCIL

<table>
<thead>
<tr>
<th>NAME</th>
<th>ADDRESS</th>
<th>POSITION</th>
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<tbody>
<tr>
<td>Pat Ristuccia</td>
<td>Bayfront Port Charlotte 2500 Harbour Blvd. Port Charlotte, FL 33952</td>
<td>Laboratory Coordinator</td>
</tr>
<tr>
<td>Marian Cavagnaro</td>
<td>Memorial Hospital West 703 N. Flamingo Road Pembroke Pines, FL 33028</td>
<td>Laboratory Director</td>
</tr>
<tr>
<td>Harold Vore</td>
<td>Sarasota Memorial 1700 Tamiami Trail Sarasota, FL 34239</td>
<td>Laboratory Director</td>
</tr>
<tr>
<td>Dana Rickard</td>
<td></td>
<td>Laboratory Manager</td>
</tr>
<tr>
<td>Jeffrey Plassins</td>
<td>Fawcett Memorial Hospital 21298 Olean Blvd. Port Charlotte, FL 33949</td>
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</tr>
<tr>
<td>Marta Domenech</td>
<td>Memorial Hospital Miramar 1901 S.W. 172nd Ave. Miramar, FL 33029</td>
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</tr>
<tr>
<td>Julie Angel</td>
<td>Physician’s Regional Medical Center 8300Colier Blvd. Naples, FL 34114</td>
<td>Laboratory Director</td>
</tr>
<tr>
<td>Angel Roman</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lynn Gott</td>
<td>Lee Health System Cape Coral Hospital 636 Del Prado Blvd. Cape Coral, FL 33990</td>
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</tr>
<tr>
<td>Joanna Harrington</td>
<td>Lehigh Regional Medical Center 1500 Lee Blvd. Lehigh Acres, FL 33936</td>
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</tr>
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<td>Rozmary Cuestas</td>
<td>Bethesda Memorial 2815 S. Seacrest Blvd. Boynton Beach, FL 33435</td>
<td>Point of Care Manager</td>
</tr>
<tr>
<td>NAME</td>
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<td>POSITION</td>
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</tr>
<tr>
<td>Essie Pierre</td>
<td>Naples Hospital Downtown 350 7th Street North Naples, FL 34102</td>
<td>Lab Educator</td>
</tr>
<tr>
<td>Susan Lawless</td>
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<td>Systems Laboratory Director</td>
</tr>
<tr>
<td>Dr. P. Gregg</td>
<td>Lehigh Regional Medical Center 1500 Lee Blvd. Lehigh Acres, FL 33936</td>
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</tr>
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<td>Brenda Hillard</td>
<td>Lee Health System 2776 Cleveland Ave. Fort Myers, FL 33901</td>
<td>Laboratory Educator</td>
</tr>
<tr>
<td>Suellen Maxwell</td>
<td>Retired</td>
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</tr>
<tr>
<td>Julie Poveda</td>
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</tr>
<tr>
<td>Ron Azarraga</td>
<td>Memorial Regional Hospital 3501 Johnson St. Hollywood, FL 33021</td>
<td>Laboratory Director</td>
</tr>
<tr>
<td>Brenda Van Der Heyden</td>
<td>Retired</td>
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</tr>
<tr>
<td>Joan Glacken, Ed.D</td>
<td>FGCU CHP Associate Dean</td>
<td>Associate Dean</td>
</tr>
<tr>
<td>Julie Zemplinski, MS</td>
<td>FGCU CLS Program Director</td>
<td>Instructor III</td>
</tr>
<tr>
<td>Pam St. Laurent, EdD</td>
<td>FGCU CLS Clinical Coordinator</td>
<td>Instructor I</td>
</tr>
<tr>
<td>David Brown, PhD</td>
<td>FGCU CAS Faculty</td>
<td>Associate Professor</td>
</tr>
</tbody>
</table>
## COMMUNITY ADVISORY COUNCIL CONTINUED

<table>
<thead>
<tr>
<th>NAME</th>
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<th>POSITION</th>
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<tbody>
<tr>
<td>Matt Treganza</td>
<td>North Naples Hospital 11190 Healthpark Blvd. Naples, FL 34110</td>
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</tr>
<tr>
<td>Cindy Robertson</td>
<td>Bayfront Punta Gorda &amp; Prt Charlotte 809 E. Marion Ave. Punts Gorda, FL 33950</td>
<td>Lab Director</td>
</tr>
<tr>
<td>Robin Williams</td>
<td>Naples Hospital Downtown 350 7th Street North Naples, FL 34102</td>
<td>Microbiology Supervisor</td>
</tr>
<tr>
<td>Evelyn Oyler</td>
<td>Suncoast Communities Blood Bank Sarasota, FL</td>
<td>Blood Bank Director</td>
</tr>
<tr>
<td>Linda Telatovich</td>
<td>IRL Labs 5361 NW 33rd Ave. Ft. Lauderdale, FL 33309</td>
<td>Lab Director</td>
</tr>
<tr>
<td>Mike Fraser</td>
<td>HealthPark Medical Center 9981 S. HealthPark Dr. Fort Myers, FL 33908</td>
<td>Lab Director</td>
</tr>
<tr>
<td>Susan Battig</td>
<td>Gulf Coast Medical Center 13681 Doctor’s Way Fort Myers, FL 33912</td>
<td>Lab Director</td>
</tr>
<tr>
<td>Marcene Miller</td>
<td>Advent Health Heartland 4200 Sun n’ Lake Blvd Sebring, FL 33872</td>
<td>Lab Director</td>
</tr>
<tr>
<td>Jose Tirado</td>
<td>Advent Health Tampa 3100 East Fletcher Ave. Tampa, FL 33613</td>
<td>Lab Director</td>
</tr>
<tr>
<td>Renee Slaughter</td>
<td>VA Bay Pines</td>
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<td>Kimberly Zobrist</td>
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</tr>
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<td>JaNice Brady</td>
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<tr>
<td>Lara Araniego</td>
<td>Advent Health Wesley Chapel</td>
<td>Lab Director</td>
</tr>
<tr>
<td>Maria Scher</td>
<td>Wellington Regional Medical</td>
<td>Lab Director</td>
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STANDARDS OF PERFORMANCE

Student Immunization Record

As a matter of personal safety, all admitted students must initiate or demonstrate completion of the following immunizations and provide documentation prior to enrollment in the first laboratory course:

- Up-to-date State University System immunization requirements
- Varicella titer test or immunization
- Tetanus (TDAP) booster
- TB (tuberculosis) test within one year of application and yearly thereafter. (A positive test result must be followed with a chest x-ray or blood test and verification of inactive status.)
- Evidence of Hepatitis B vaccine series completed or initiated, positive titer, or a student signed waiver.
- Influenza vaccine

Most immunizations are available at cost from the Florida Gulf Coast University Student Health Services.

Student Criminal Background Checks  (Note: Follow different procedure for Memorial Health System and VA)

Criminal background checks are required before acceptance into a training facility. If the student does not pass the check, he/she may be unable to finish his/her course of study and will be dismissed from the program. We use a company called CastleBranch. Go to: https://portal.castlebranch.com/FL03. Click on “Place Order”. You will then be directed to set up your CB account.

- **Drug Test**
  - Within 24-48 hours after you place your order, the electronic chain of custody form (echain) will be placed directly into your CB account. This echain will explain where you need to go to complete your drug test.
- **Fingerprints**
  - The online order process will guide you through the steps to complete a statewide Live Scan Fingerprint with FDLE.
- **Payment Information**
  - At the end of the online order process, you will be prompted to enter your Visa or Mastercard information. Money orders are also accepted but will result in a $10 fee and an additional turnaround-time.

You will be notified if there is any missing information needed in order to process your order. Although 95% of background check results are completed within 3-5 business days, some results may take longer. Your order will show as **“In Process”** until it has been completed in its entirety. Your school's administrator can also securely view your results online with their unique username and password. Fingerprint results are sent directly to the school by the FDLE and are not viewable online.

**If you have any additional questions, please contact Student Support at (888) 723-4263 X7196 or go to** https://www.castlebranch.com/contact-us/stufacstaff_contactsviewdesk to enter an email.

Student Illness and Absences

An expectation of professional education is that students attend all classroom and off-campus experiences. Responsibility and accountability for meeting course obligations is a fundamental component of professional learning experience. Students are responsible for adhering to the policies set forth by the course instructors regarding illnesses and absences. With regard to **off-campus experiences**, these policies include:
In cases of illness, accident, or personal emergencies students must contact, as soon as possible, the primary instructors at the off-campus facility and the Program Director at FGCU.

Students remain responsible for the completion of all off-campus objectives. Any absence (above the 5 allowed personal/sick days for the year), requires the makeup of lost time. This time will be scheduled at the convenience of the facility, and may most likely be added to the end of a student’s full rotation schedule, which may also postpone the student’s final graduation date.

If a student has any unexcused absences, the student will be removed from that course which will result in a failure and possible dismissal from the program.

**Student Leave**

Exceptional circumstances, such as an extended illness or a death in the family, would be a reason for a student to request a leave of absence. Such requests will be considered and evaluated by the Program Director on a case by case basis. An “I” [incomplete] grade may be assigned for affected courses.

**Academic Standards**

The Marieb College of Health & Human Services uses academic milestones to monitor academic progress throughout the major. Monitoring ensures that students are on track for graduation in a timely manner. In addition, transfer students must meet mapping guidelines and milestones at the time of entry into a non-limited access program or to be accepted into their limited access program. In order to promote timely graduation, MCHHS majors and pre-majors must identify a backup major with their advisor in case they are unable to meet milestones for their desired major.

Missing any of the milestones listed below will result in registration holds. Students are allowed no more than two milestone non-compliance issues in any MCHHS program. The first missed milestone in the major or pre-major results in a hold being placed on the student’s account, requiring the student to meet with their advisor for additional assistance prior to future registration. At this time, remaining milestone deadlines may be adjusted per the student’s plan to graduation. If a student is in non-compliance with the milestones for a second time, a hold is placed on the student’s account and the student will be required to meet with an advisor for major reselection. For most milestones, a grade of “C” or better constitutes satisfactory progression. A grade of “C-” (C minus) does not constitute satisfactory course completion. Some milestones require a grade of “B-“ (B minus) or better for certain programs.

**Clinical Laboratory Science Milestones**

- Meet with a First Year Advisor (FYA) or MCHHS Academic Advisor and have a Student Educational Planner (SEP) in Degree Works by the end of Semester 1. SEP will be completed with the advisor and available to the student through Degree Works.
- Complete BSC 1010C & MAC 1105 (or higher level math) with a minimum grade of “C” by the end of Semester 1.
- Earn an overall FGCU Institution GPA of 2.0 or greater on coursework by the end of Semester 1.
- Complete CHM 1045 & CHM 1045L, STA 2023 & BSC 1085C with a minimum grade of “C” by the end of Semester 2.
- Earn an overall FGCU Institution GPA of 2.0 or greater on coursework by the end of Semester 2.
- Complete CHM 1046 & CHM 1046L with a minimum grade of “C” by the end of Summer Semester.
- Complete CHM 2210, CHM 2210L & BSC 1086C with a minimum grade of “C” by the end of Semester 3.
- Earn an overall FGCU Institution GPA of 2.0 or greater on coursework by the end of Semester 3.
- Complete CHM 2211, CHM 2211L & MCB 2010C or 3020C with a minimum grade of “C” by the end of Semester 4.
• Earn an overall FGCU Institution GPA of 2.0 or greater on coursework by the end of Semester 4.
• Earn an overall GPA of 3.0 or greater on required state prerequisites by the end of Semester 4.
• Complete all other required general education and state common prerequisite courses with a minimum grade of “C” by the end of the summer semester in the year in which the Clinical Laboratory Science Major application is received.
• Must be accepted into the full major by the end of Semester 5.

Satisfactory academic progression toward the **Bachelor of Science degree** or the **Certificate in Clinical Laboratory Science** requires a student to meet these academic standards:

- A minimum cumulative grade point average of 2.0 [0-4.0 scale].
- A grade of C or better in each course within the program major, including Marieb College of Health & Human Services interdisciplinary core courses, and in prerequisites to program courses, in order to progress and continue the sequence of courses. A grade of less than C in two courses is cause for dismissal from the Clinical Laboratory Science Program.
- Required Clinical Laboratory Science courses may be repeated only once.
- Adherence to Florida Gulf Coast University’s policy on Academic Standards of Behavior as outlined in FGCU’s current catalog.

**Academic Warning:**
Students in the Department of Health Sciences, Clinical Lab Science Program, will be placed on Academic Warning as a result of unsatisfactory academic performance by earning a grade of less than C in any course. Students on Academic Warning must accept whatever additional requirements are stipulated by the Department of Health Sciences. Examples include, but are not limited to, specified credit hour limitations, specific GPAs, and restriction on choice of courses. Academic advising is mandatory prior to registration.

**Academic Dismissal:**
Students will be dismissed from the Clinical Lab Science program because of unsatisfactory academic performance for the following reasons:

- Earns less than a C in 2 courses;
- Earns less than a C twice in the same course; or
- Earns less than a C after utilizing the grade forgiveness option twice.

Students dismissed from the Clinical Lab Science program and/or FGCU will not be allowed take Clinical Lab Science courses as non-degree seeking students. Any course(s) taken elsewhere while dismissed from the Department of Health Sciences will not count towards the degree.
Reinstatement:
READMISION IS NOT GUARANTEED. Students reinstated in the Department of Health Sciences after Academic Dismissal will be placed on Academic Probation for at least 2 semesters. As a condition of reinstatement, students on Academic Probation must accept whatever additional requirements are stipulated by the Department of Health Sciences. Examples include, but are not limited to, full- or part-time status, specified credit hour limitations, specific GPAs, and restriction on choice of courses. Academic advising is mandatory prior to registration for the remainder of the program. Not meeting these conditions may result in the student’s being permanently dismissed from the Department of Health Sciences. Students will be academically dismissed if they fail to earn at least a 2.00 semester GPA each semester or have any grades of less than C in any program courses. A student academically dismissed a second time is permanently dismissed from the Department of Health Sciences.

3/2 Withdrawal Limit Rule & Withdrawal (W & WF)

FGCU students are expected to complete all classes in which they remained enrolled after the drop/add deadline. In order to incentivize successful completion of coursework and to encourage students to stay on track for timely graduation, FGCU has instituted the 3/2 Withdrawal Limit Rule (3/2 Rule). This rule limits the number of courses in which an undergraduate student may earn a grade of W (withdrawal without academic penalty).

Under the 3/2 Rule, a student may withdraw from as many as 3 lower division courses (1000- and 2000-level) and as many as 2 upper division courses (3000- and 4000-level) without academic penalty. Withdrawal from all courses above this limit will count as withdrawals with academic penalty and will be noted on the transcript as a WF (which counts as a grade of F in the student’s GPA).

After students exceed the allowable number of course withdrawals (a maximum of 3 lower level courses and 2 upper level courses), they earn a “withdrawal with academic penalty” (WF). Such withdrawals will appear on the student’s academic record and results in a grade of WF for the relevant course(s). A WF is calculated as a failing grade in a student’s grade point average. An appeal regarding the WF grade assignment is considered a request for a grade change. Student appeals are submitted electronically, with a personal statement and supporting documentation, to the Office of the Registrar at https://cm.maxient.com/reportingform.php?FloridaGulfCoastUniv&layout_id=15.

The deadline for withdrawal from a course is listed in the academic calendar for each term. The Academic Calendar can be found at: https://www2.fgcu.edu/Registrar/academiccalendar.asp. On or before this deadline, a student may withdraw from any course by completing a Course Withdrawal Form or Term Withdrawal Form and taking it or faxing it to the Office of the Registrar. These forms are available on the web https://www2.fgcu.edu/Registrar/forms.html. Students seeking a complete withdraw (withdrawal from all courses for the semester) based on medical reasons should contact the Student Affairs Case Manager: https://www2.fgcu.edu/Catalog/regdetail.asp?FMID=Registration+and+Records&page=25
Once the withdrawal deadline has passed, a student who desires to withdraw from a course must submit an Appeal for Late Withdrawal without Academic Penalty (https://www2.fgcu.edu/UndergraduateStudies/files/Appeal_for_Late_Withdrawal_Form- UGS.pdf). Students who withdraw after the deadline without submitting an Appeal for Late Withdrawal without Academic Penalty will receive a grade of WF. A grade of WF is not eligible for grade forgiveness. If a grade has already been entered for the class in question and the student has actively participated in the class, the student must submit an Appeal for Grade Change as described below in the Student Grade Appeals section.

An Appeal for Late Withdrawal will be considered when it is demonstrated that extenuating circumstances beyond the student’s control occurred that prevented him/her from successful completion of the course and the student was not able to withdraw by the deadline posted on the Academic Calendar. Extenuating circumstances include death in the immediate family (parent, spouse, child, sibling) of the student; illness of the student that is of long duration or severity, as confirmed in writing by a physician; or call to, or enlistment in, active military duty. Approved appeals will result in a ‘WE’ appearing on the transcript in place of the grade. WE grades do not count toward the 3/2 Rule withdrawal limits. A withdrawal for extenuating circumstances initiated by submitting a completed Application for Withdrawal, with a personal statement and supporting documentation, to the Office of the Registrar at https://cm.maxient.com/reportingform.php?FloridaGulfCoastUniv&layout_id=15.

All appeals for late withdrawal must be submitted within one semester after the student has taken the course:

- Appeals for fall courses must be submitted no later than the last class day of the following spring semester.
- Appeals for spring courses must be submitted no later than the last class day of the following fall semester.
- Appeals for summer courses must be submitted no later than the last class day of the following fall semester.

Appeals for late withdrawals are reviewed by the course coordinator and/or the Undergraduate Studies Student Affairs Committee. If approved, the information is forwarded to the Office of the Registrar and the grade is changed to W. If the appeal is denied, the grade entered by the faculty member will stand.

**Professional Standards**

Satisfactory progression in the Clinical Laboratory Science program requires a student to meet the following professional standards:

- Appropriate behavior in the classroom and off-campus experiences in accordance with the applicable Professional Code of Ethics
- Appropriate behavior as outlined in the University’s Code of Conduct in the FGCU Student Guidebook
- The Department of Health Sciences maintains a zero tolerance policy for academic dishonesty. Any student found in violation of academic honesty will earn a grade of "F" in the course. Department of Health Science students who receive a grade of "F" for academic dishonesty in any course will be permanently dismissed from the program.

A student behavior that interferes with the educational process or jeopardizes the welfare of classmates, faculty, staff, University guests, or patients is inappropriate. Such behavior or performance may be the basis for dismissal from the FGCU CLS program.
Standards of Behavior In The Classroom
Students are expected to maintain respect for themselves and others, and to maintain civility in all classroom and off-campus educational experiences (such as service learning, internships, and practicums). This includes the physical classroom, virtual classroom, and practice sites in which students gain knowledge, values, and competencies. Students are expected to express themselves in generally accepted and expected patterns of social behavior during both face to face and electronic communication (such as email, voicemail, and online discussion). Such behavior is consistently expressed through social politeness, sensitivity, respect, and courteous treatment of others. These behaviors are a manifestation of the individual’s personal ethics, and are a reflection of his/her sense of personal integrity, acceptance of opposing points of view, respect for self and others, and commitment to the welfare of others.

Instructors have the primary responsibility of managing the physical and online classroom environment. Students who fail to meet reasonable behavior expectations will be counseled by their instructor and/or their advisor regarding the specific instance of inappropriate behavior. All occurrences of inappropriate behavior will be reported to the Chair of the Department of Health Sciences and a copy of the report will be placed in the student’s file. Instructors may remove a student from the physical classroom for disruption on the day that it occurs at their discretion. Instructors may request the removal of inappropriate electronic postings. If a student is removed from the classroom for disruptive behavior, a grade of “F” may be assigned for an assignment, the day, and/or the course at the instructor’s discretion. In addition, instructors may report inappropriate behavior by way of a written incident report to the Dean of Students Office.

Students found responsible for disrupting the classroom, by their conduct, may be permanently dismissed from the program, suspended, or expelled from the university. Students dismissed from the program or suspended or expelled from FGCU for student conduct violations are permanently dismissed from the Department of Health Sciences and are not eligible to reapply.
For more information on student conduct, see the FGCU Student Code of Conduct: https://www2.fgcu.edu/studentservices/StudentConduct/

Student Academic and Non-Academic Concerns
The Clinical Laboratory Science Program encourages the informal resolution of grievances directly between the student and the respondent at the department level as stated in the University Student Grievance Procedure. Steps for informal grievance resolution within the Department of Health Sciences include the following:
- The student and respondent attempt to informally resolve the grievance.
- Within the Department of Health Sciences, the next step is arbitration by the CLS Program Director.
- If this arbitration is unsuccessful, any of the individuals directly involved may submit, in writing, a request for review of the concerns to the Chair of Health Sciences. The Chair convenes the Marieb College of Health & Human Services Appeals Committee and forwards the request to the committee for review and recommendations.
- The student presents documentation relevant to the appeal to the Appeals Committee.
- Following committee review, the committee forwards its recommendations and decisions to the Chair. The Chair reviews the recommendations and sends a letter to the individuals directly involved regarding the rationale of the decision and the actions to be taken.
- If the student is not satisfied with the outcome of the review, the student can appeal to the Office of the Dean of the Marieb College of Health & Human Services.
- If these attempts do not succeed in the resolution of the concern, the student may present the grievance to the Provost and Vice President for Academic Affairs according to University policy.
Essential Requirements

Satisfactory progression in the Clinical Laboratory Science Program requires a student to meet the following essential requirements:

- Move freely and safely about a laboratory.
- Reach laboratory benches and shelves, patients lying in hospital beds or patients seated in specimen collection furniture.
- Travel to numerous clinical laboratory sites for practical experience.
- Perform moderately taxing continuous physical work, often requiring prolonged sitting, over several hours.
- Maneuver phlebotomy and culture acquisition equipment to safely collect valid laboratory specimens from patients.
- Control laboratory equipment (i.e. pipettes, inoculating loops, test tubes) and adjust instruments to perform laboratory procedures.
- Use an electronic keyboard to operate laboratory instruments and to calculate, record, evaluate and transmit laboratory information.
- Read and comprehend technical and professional materials.
- Follow verbal and written instructions in order to correctly and independently perform laboratory test procedures.
- Clearly instruct patients prior to specimen collection.
- Effectively, confidentially, and sensitively converse with patients regarding laboratory tests.
- Communicate with faculty members, fellow students, staff, and other health care professionals verbally and in a recorded format.
- Independently prepare, papers, prepare laboratory reports, and take paper, computer, and laboratory practical examinations.
- Possess these intellectual skills; comprehension, measurement, mathematical calculation, reasoning, integration, analysis, comparison, self-expression, and criticism.
- Be able to manage the use of time and be able to systematize actions in order to complete professional and technical tasks within realistic constraints.
- Possess the emotional health necessary to effectively employ intellect and exercise appropriate judgment.
- Be able to provide professional and technical services while experiencing the stresses of task-related uncertainty, emergent demands, and a distracting environment.
- Be flexible and creative and adapt to professional and technical change.
- Recognize potentially hazardous materials, equipment, and situations and proceed safely in order to minimize risk of injury to patients, self, and nearby individuals.
- Adapt to working with unpleasant biological.
- Support and promote the activities of fellow students and of health care professionals.
- Be honest, compassionate, ethical and responsible.
STUDENT RESOURCES

Academic and Personal Counseling

CLS faculty is available to assist students in understanding and observing program policies and practices, for career advising, and for counseling or referral for personal problems interfering with student progression. The University also provides counseling through Student Services.

Library

The University Library is available to all registered students. Many additional references are available in the Marieb College of Health & Human Services, and the clinical affiliate sites.

Program Evaluation

Program evaluation is an important aspect of overall improvement for the CLS program. Your concerns and ideas are reviewed so that we may continue to meet the needs of future students. The overall plan for program evaluation includes the following components:

- Practica and Off-Campus experience evaluations
- FGCU faculty/course evaluations
- Overall program evaluation
- Post-graduate program evaluation
CLS LABORATORY SAFETY RULES

The Clinical Laboratory Science Program firmly believes in and actively practices these precautions for the prevention of transmission of Human Immunodeficiency Virus, Hepatitis B virus, and other bloodborne pathogens in health care settings as recommended by the U.S. Centers for Disease Control. As a student in the CLS program, you are responsible for following these guidelines and protecting yourself from potential infection during all campus laboratory classes and off-campus facilities.

- Wear personal protective clothing and closed footwear in the laboratory. Long hair should be pulled away from the face.
- No food or drink is allowed in the laboratory.
- Wear vinyl or latex gloves when processing or handling specimens. Dispose of, rather than disinfect, gloves after use.
- Avoid contaminating the outside of containers during specimen collection. The lids should be tight. (Enclose specimen in a second container, such as a sealed bag when transferring to a reference laboratory.)
- No mouth pipetting.
- Use precautions when handling needles. No bending, breaking, recapping, or removing needles from disposable syringes. Place in puncture-resistant containers.
- Use facial masks and eye wear if splashing or aerosolization is anticipated. A blood tube in a centrifuge can create this situation.
- Use biological safety cabinets for blending, sonicating, and vigorous mixing.
- Decontaminate work surfaces with a chemical germicide after spills and when work is completed. (A 1:10,000 dilution of household bleach is effective.)
- Dispose of contaminated materials in bags and in accordance with institutional policies for disposal of infective waste.
- Decontaminate equipment before repair or shipping.
- Remove personal protective clothing and wash hands before leaving the laboratory.

References:

2. “Recommendations for Prevention of HIV Transmission in Health-Care Settings.” Available through the National AIDS Information Clearinghouse, P.O. Box 6003, Rockville, MD 20850
CLS OFF-CAMPUS POLICIES

Professional Attire

If you are involved in course-work or activities off-campus, please adhere to professional and appropriate attire for the facility. To promote a professional image and personal safety, a student is expected to follow these guidelines on appropriate professional attire for at each off-campus site.

- Laboratory coat (provided by the lab) that can be closed in the front as a protective garment as needed.
- Depending on the site, scrubs or street clothes such as dresses, skirts and blouses, slacks and shirts. No jeans, sweat suits or shorts should be worn.
- Closed-toe, low-heeled, solid leather or manmade material, non-mesh shoes.
- Hair, beards, sideburns and mustaches are neat, clean and combed. Long hair should be tied back.
- Minimum amount of jewelry, perfume and/or shaving lotion.

The guidelines are designed for student safety and professional development. Any student not in compliance may be asked to leave and return in appropriate attire for that site. Some off-campus sites will have different attire/dress codes. Please follow what is directed by that facility as appropriate. Should there be any questions contact your course faculty.

Transportation and Living Accommodations

Throughout any off-campus experience, it is the student’s responsibility to provide transportation to and from the facility. University transportation is not available for this purpose. Students are also responsible for their own living accommodations and other expenses during the off-campus portion of the program.

Student Employment

- It is strongly recommended that a student not be employed while completing program requirements. This recommendation will optimize successful experiences in your education.

- If the off-campus site at which a rotation is scheduled employs students, the student must complete terms of employment outside of educational hours, and it must be noncomplusory.

- If employment interferes with the scheduled course/off-campus experience this may result in dismissal from the program.

Patient/Client/Facility Confidentiality

Students must maintain the confidentiality of all records in accordance with facility standards and practices during and after practica experiences for all off-campus experiences.
Professional Liability Insurance

Students are required to purchase liability insurance for the clinical practicum courses. Proof of policy is necessary before participation in the practicum. Insurance may be obtained from ASCP or HPSO. For ASCP, visit www.ascp.lockton-ins.com. Costs approximately $18. There is a discount if you are a student member of ASCP. Membership is free. Apply at www.ascp.org. For occupation, check off Medical Technologist. For HPSO, visit http://www.hpso.com or call 1-800-982-9491. Costs approximately $38.

Scheduling and Holidays

Students will train 34 weeks, with 2 weeks of time off in the internship period. One week off for Christmas break, one week off for Spring break. Students will be allowed 5 days that can be used as personal/sick days. **Students are to notify both their clinical site and FGCU of all absences immediately.** Students are expected to be at their clinical site 6-8 hours a day (as determined by instructors), five days a week, following break and lunch period policies just like regular employees. Each practicum affiliate will determine the practicum daily schedule and start times. Students should be aware that rotations will require day and possibly few evening hours. In addition, students may be scheduled during University recesses. Employment schedules must not interfere with your learning experiences.

Trainee Registration

Pursuant to State of Florida law [483.809 (3); ref. 64B3-4.001] any student enrolled in a training program approved under Florida State law 483.811, and participating in the clinical practica, must register and obtain a trainee license. The initial application fee for registration of a trainee is $45.00. The registration is valid for one year from the date of issue and is not renewable except upon special authorization of the Florida State Board of Clinical Laboratory Personnel. The application is available on the web at http://www.doh.state.fl.us/mqa/ClinLab/clp_applications.html or can be obtained by writing:

Department of Health, Board of Clinical Laboratory Personnel, 4052 Bald Cypress Way, Bin #C07
Tallahassee, FL 32399-3257 [Telephone 850-245-4355].

The Florida Department of Health, Division of Medical Quality Assurance wants to alert your educational institution and students of a new law that may impact the ability of some applicants to become licensed in Florida. Please share the following notice with anyone you believe may be impacted…..

**Important Notice for Initial Licensure Applicants:**

Pursuant to Section 456.0635, Florida Statutes, you are being notified that effective July 1, 2009, health care boards or the department shall refuse to renew a license, certificate or registration, issue a license, certificate or registration and shall refuse to admit a candidate for examination if the applicant has been:

1. Convicted or plead guilty or nolo contendre, regardless of adjudication, to a felony violation of: chapters 409, 817, or 893, Florida Statutes; or 21 U.S.C. ss. 801-970 or 42 U.S.C. ss.1395-1396, unless the sentence and any probation or pleas ended more than 15 years prior to the application.

2. Terminated for cause from Florida Medicaid Program (unless the applicant has been in good standing for the most recent 5 years).
3. Terminated for cause by any other State Medicaid Program or the Medicare Program (unless the termination was at least 20 years prior to the date of the application and the applicant has been in good standing with the program for the most recent 5 years).

The Department is in the process of developing business procedures to fully implement the provisions of this law. Please continue to use the applications, as they currently appear online, until rules are adopted that will allow the department to replace these applications with updated versions.

Bill Parizek, Strategic Planning Services (SPS)
Division of Medical Quality Assurance (MQA) Florida Department of Health
ph: 850-245-4702 (SC 205-4702)
fax:850-414-8209
Email: william_parizek@doh.state.fl.us

Student Accident Or Event

In the event of a student accident or event, all clinical affiliate procedures and policies including an incident report must be written. In the case of accident or illness, emergency care and stabilization must be provided to the student during clinical learning experiences. All health care (emergency or otherwise) that a student receives will be at the expense of the individual involved. Please notify the Clinical Laboratory Science Program Director immediately.

Homework

Allowing homework to be done during training hours by the affiliate is at the discretion of the clinical instructor and permission must be given to the student by the instructor to do so.
PROFESSIONAL ORGANIZATIONS

NATIONAL

American Society for Clinical Laboratory Science (ASCLS)
The American Society for Clinical Laboratory Science (ASCLS) is the national professional society dedicated to clinical laboratory science practitioners. It provides dynamic leadership and vigorously promotes all aspects of clinical laboratory science practice, education, and management to ensure excellent, accessible cost-effective laboratory services for the consumers of health care. The organization publishes a professional journal, Clinical Laboratory Science, which is provided to all members. Student membership within the organization is available to all interested students. Visit their web site at http://www.ascls.org for more information about the organization and membership.

American Society for Clinical Pathologists (ASCP)
The American Society for Clinical Pathologists (ASCP) is a not-for-profit medical society organized exclusively for educational and scientific purposes. Its mission is to promote the public health and safety by the appropriate application of pathology and laboratory medicine and to serve as the national resource to enhance the quality of pathology and laboratory medicine, primarily by developing comprehensive educational programs and materials. The ASCP grants national certification for medical technologists. The organization publishes a professional journal, Laboratory Medicine, for its constituency. Student membership is available. Visit their web site at http://www.ascp.org for more information about the organization and membership.

DISCIPLINE-SPECIFIC

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Florida Professional Organizations
Florida Society for Clinical Laboratory Science (FSCLS)
www.fsclsls.org
PROFESSIONAL AGENCIES FOR CERTIFICATION AND LICENSURE

What is Certification?

Certification is a process by which the educational and functional achievements of an individual are recognized. Non-governmental agencies or associations provide mechanisms for individuals to be recognized as having the necessary competence to perform the medical laboratory roles they seek. Certification and registry are voluntary; it is not required by law in order to work in a laboratory. Institutions, when hiring, may require certification as a demonstration of competency. Graduates are eligible to take an examination for certification by the following agencies:

➤ **Board of Certification of the American Society of Clinical Pathologists**

The certification as medical technologist [MLS, (ASCP)] is based on minimum competencies, i.e., the minimum requirements and knowledge necessary for an entry-level position. The examination is a computerized adaptive test administered year-round. Applications for the examination are available online at [www.ascp.org](http://www.ascp.org) and from the FGCU Clinical Laboratory Science Program. An application fee of $240 accompanies the application form with a copy of your college transcripts indicating issuance of a degree.

**American Society of Clinical Pathologists (ASCP)**
Board of Certification
33 West Monroe St., Suite 1600
Chicago, IL
60603 (312)
541-4999
Email: bocascp.org

➤ **Board of Certification of the American Medical Technologists**

**American Medical Technologists (AMT)**
10700 West Higgins Rd. Suite 150
Rosemont, IL
60018 (847)
823-5169
Email: mail@americantech.org

➤ **American Association of Bioanalysts**

**American Association of Bioanalysts (AAB) Board of Registry (ABOR)**
AAB Board of Registry
906 Olive Street, Suite 1200
Saint Louis, MO
63101 (314) 241-1445
What is Licensure?

The State of Florida’s Board of Clinical Laboratory Personnel oversees the licensure of clinical laboratory scientists in this state. In order to practice as a CLS within the state of Florida, an individual must be licensed. There are several categories of clinical laboratory personnel that require licenses. These include director, supervisor, technologist, and technician. As of July 1, 1999, any applicant who possesses a BS degree, has completed an approved training program, and who has passed a national board exam and is certified [e.g., ASCP], may be issued a license by endorsement. Information on how to obtain a license is available by writing to:

Department of Health
Board of Clinical Laboratory Personnel
4052 Bald Cypress Way, Bin #C07
Tallahassee, FL 32399-3257
850-245-4355
AMERICAN SOCIETY FOR CLINICAL LABORATORY SCIENCE
CODE OF ETHICS

PREAMBLE
The Code of Ethics of the American Society for Clinical Laboratory Science sets forth the principles and standards by which Medical Laboratory Professionals and students admitted to professional education programs practice their profession.

I. DUTY TO THE PATIENT
Medical Laboratory Professionals' primary duty is to the patient, placing the welfare of the patient above their own needs and desires and ensuring that each patient receives the highest quality of care according to current standards of practice. High quality laboratory services are safe, effective, efficient, timely, equitable, and patient-centered. Medical Laboratory Professionals work with all patients and all patient samples without regard to disease state, ethnicity, race, religion, or sexual orientation. Medical Laboratory Professionals prevent and avoid conflicts of interest that undermine the best interests of patients.

Medical Laboratory Professionals are accountable for the quality and integrity of the laboratory services they provide. This obligation includes maintaining the highest level of individual competence as patient needs change, yet practicing within the limits of their level of practice. Medical Laboratory Professionals exercise sound judgment in all aspects of laboratory services they provide. Furthermore, Medical Laboratory Professionals safeguard patients from others' incompetent or illegal practice through identification and appropriate reporting of instances where the integrity and high quality of laboratory services have been breached.

Medical Laboratory Professionals maintain strict confidentiality of patient information and test results. They safeguard the dignity and privacy of patients and provide accurate information to patients and other health care professionals. Medical Laboratory Professionals respect patients' rights to make decisions regarding their own medical care.

II. DUTY TO COLLEAGUES AND THE PROFESSION
Medical Laboratory Professionals uphold the dignity and respect of the profession and maintain a reputation of honesty, integrity, competence, and reliability. Medical Laboratory Professionals contribute to the advancement of the profession by improving and disseminating the body of knowledge, adopting scientific advances that benefit the patient, maintaining high standards of practice and education, and seeking fair socioeconomic working conditions for members of the profession.

Medical Laboratory Professionals accept the responsibility to establish the qualifications for entry to the profession, to implement those qualifications through participation in licensing and certification programs, to uphold those qualifications in hiring practices, and to recruit and educate students in accredited programs to achieve those qualifications.

Medical Laboratory Professionals establish cooperative, honest, and respectful working relationships within the clinical laboratory and with all members of the healthcare team with the primary objective of ensuring a high standard of care for the patients they serve.
III. DUTY TO SOCIETY

As practitioners of an autonomous profession, Medical Laboratory Professionals have the responsibility to contribute from their sphere of professional competence to the general well being of society. Medical Laboratory Professionals serve as patient advocates. They apply their expertise to improve patient healthcare outcomes by eliminating barriers to access to laboratory services and promoting equitable distribution of healthcare resources.

Medical Laboratory Professionals comply with relevant laws and regulations pertaining to the practice of Clinical Laboratory Science and actively seek, to change those laws and regulations that do not meet the high standards of care and practice.

PLEDGE TO THE PROFESSION

As a Medical Laboratory Professional, I pledge to uphold my duty to Patients, the Profession and Society by:

- Placing patients’ welfare above my own needs and desires.
- Ensuring that each patient receives care that is safe, effective, efficient, timely, equitable and patient-centered.
- Maintaining the dignity and respect for my profession.
- Promoting the advancement of my profession.
- Ensuring collegial relationships within the clinical laboratory and with other patient care providers.
- Improving access to laboratory services.
- Promoting equitable distribution of healthcare resources.
- Complying with laws and regulations and protecting patients from others' incompetent or illegal practice.
- Changing conditions where necessary to advance the best interests of patients.
Student Information Form

Please complete this form and return it to the Clinical Science Program. Thanks!

Name (print or type): _________________________________

Address: _________________________________

Phone: _________________________________

e-mail: _________________________________

I have read and fully accept responsibility for the information provided to me in the Florida Gulf Coast University, Clinical Laboratory Science, 2019-20 Student Handbook.

Name (Signature): _________________________________

Date: _________________________________
Program Offerings

**Description**

The Clinical Laboratory Sciences Program offers a Bachelor of Science degree in Clinical Laboratory Science. In addition, post-baccalaureate certification is available in Clinical Laboratory Science. The Program strives to provide outstanding educational experiences for entry level or advanced positions in the clinical laboratory, research or biotechnology environments. Academic programs combine a foundation in basic sciences with hands-on clinical experiences at the partnered regional laboratories. Graduates of the program join a dynamic and expanding health profession or embark on additional education in graduate school or professional schools for medicine, veterinary medicine, dentistry, or pharmacy. The program is accredited by the National Accrediting Agency for Clinical Laboratory Science (5600 North River Road, Suite 720 Rosemont, IL 60018, 773-714-8880).

- **B.S. Clinical Laboratory Science**

  The Clinical Laboratory Science Concentration is designed for students who seek a baccalaureate degree and national certification as a clinical laboratory scientist MLS (ASCP) and Florida licensure as a clinical laboratory technologist. Graduates are prepared to work in the clinical laboratory areas of chemistry, microbiology, hematology, immunohematology, and immunology. Career opportunities continue to expand and include such diverse areas as biotechnology research, pharmaceutical sales, product development, laboratory information systems, and education. The clinical laboratory science curriculum also serves as a solid preparation for medical, dental, veterinary, and graduate school. The curriculum emphasizes clinical medicine in integrated clinical laboratory science courses that utilize technological innovations. Clinical experience is integrated throughout the curriculum through enhanced clinical experiences. The program culminates in on-site clinical practice developed and delivered in cooperation with the clinical laboratory science community of Southwest Florida. Upon completion of the program, students are eligible to sit for the national certification examination at the technologist level by the American Society for Clinical Pathologists. Issuing of the degree is not contingent upon passing the certification exam.

- **Post-Baccalaureate Certificate in Clinical Laboratory Technology**

  This certificate program is designed for students with baccalaureate degrees in the chemical or biological sciences who seek licensure/certification in Clinical Laboratory Science. Individuals completing the program are prepared to work in the clinical laboratory areas of chemistry, microbiology, immunohematology, hematology, and immunology. The curriculum emphasizes clinical medicine in integrated clinical laboratory science courses that utilize technological innovations. Clinical experience is integrated throughout the curriculum through enhanced clinical experiences. The program culminates in on-site clinical practice developed and delivered in cooperation with the clinical laboratory science community of Southwest Florida. Full-time students can complete the curriculum in four semesters. The program requires a minimum of 39 credit hours. Upon completion of the program, students are eligible to sit for the national certification examination at the technologist level by the American Society for Clinical Pathologists. Issuing of the certificate is not contingent upon passing the certification exam.
### COMMON PREREQUISITES

The common prerequisites for clinical laboratory science consist of 35 credit hours distributed over the courses listed below. Some courses may meet general educational requirements as well as fulfill program prerequisites.

<table>
<thead>
<tr>
<th>STATE-MANDATED COMMON PREREQUISITES</th>
<th>COURSE TITLE</th>
<th>CR HR</th>
<th>RECOMMENDED FGCU COURSES</th>
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<tbody>
<tr>
<td>BSC 1XXX/1XXXL</td>
<td>General Biology w/lab</td>
<td>4</td>
<td>BSC 1010C</td>
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<tr>
<td>BSC 2XXX/2XXXL</td>
<td>Anatomy &amp; Physiology I</td>
<td>4</td>
<td>BSC 1085C</td>
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<tr>
<td>BSC 2XXX/2XXXL</td>
<td>Anatomy &amp; Physiology II</td>
<td>4</td>
<td>BSC 1086C</td>
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<tr>
<td>CHM 1XXX/1XXXL</td>
<td>General Chemistry I</td>
<td>4</td>
<td>CHM 1045C</td>
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<tr>
<td>CHM 1XXX/1XXXL</td>
<td>General Chemistry II</td>
<td>4</td>
<td>CHM 1046C</td>
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<td>CHM 2XXX/2XXXL</td>
<td>Organic Chemistry I</td>
<td>4</td>
<td>CHM 2210C</td>
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<tr>
<td>CHM 2XXX/2XXXL or CHM 2XXX</td>
<td>Organic Chemistry II Quantitative Analysis</td>
<td>4</td>
<td>CHM 2211C</td>
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<tr>
<td>MCB 2XXXC</td>
<td>Microbiology w/lab</td>
<td>4</td>
<td>MCB 3020C or MCB 2010C</td>
</tr>
<tr>
<td>STA X023 or STA X122</td>
<td>Statistics</td>
<td>3</td>
<td>STA 2023 or STA 2037</td>
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**Required courses for the B.S. in Clinical Laboratory Science**

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>COURSE TITLE</th>
<th>COURSE CREDIT</th>
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<tbody>
<tr>
<td>IHS 3101</td>
<td>Shaping Health Care in the 21st Century</td>
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<tr>
<td>IHS 3203</td>
<td>Management and Leadership in Health Care Organizations</td>
<td>3</td>
</tr>
<tr>
<td>IHS 4504</td>
<td>Research Methods in Health Care</td>
<td>3</td>
</tr>
<tr>
<td>IHS 4938</td>
<td>Senior Seminar</td>
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<tr>
<td>IDS 3920</td>
<td>University Colloquium</td>
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<tr>
<td>BCH 3023C</td>
<td>Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>PCB 4233C</td>
<td>Immunology*</td>
<td>3</td>
</tr>
<tr>
<td>HSC 3161</td>
<td>Genetics for Health Sciences*</td>
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* Recommended for post baccalaureate certificate students
Additional required courses in Clinical Laboratory Science (total B. S. program length 123 credit hours) and required courses for the post baccalaureate certificate (total certificate program length 39 credit hours).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MLS 4191</td>
<td>Molecular Diagnostics</td>
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<tr>
<td>MLS 4404</td>
<td>Diagnostic Microbiology</td>
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<tr>
<td>MLS 4462</td>
<td>Diagnostic Virology/Mycology/Parasitology</td>
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<tr>
<td>MLS 3038</td>
<td>Essentials of Clinical Laboratory Science</td>
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<tr>
<td>MLS 3220</td>
<td>Biological Fluid Analysis</td>
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<tr>
<td>MLS 4308</td>
<td>Hematology/Hemostasis</td>
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<td>MLS 4505</td>
<td>Clinical Immunology</td>
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<tr>
<td>MLS 4550</td>
<td>Immunohematology and Transfusion Practice</td>
<td>3</td>
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<tr>
<td>MLS 4627</td>
<td>Clinical Biochemistry</td>
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<tr>
<td>MLS 4820C</td>
<td>Clinical Biochemistry Practicum</td>
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<tr>
<td>MLS 4821C</td>
<td>Clinical Microbiology Practicum</td>
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<tr>
<td>MLS 4822C</td>
<td>Clinical Hematology /Hemostasis Practicum</td>
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<tr>
<td>MLS 4823C</td>
<td>Clinical Immunohematology Practicum</td>
<td>3</td>
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<tr>
<td>MLS 4826C</td>
<td>Clinical Immunology Practicum</td>
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