

UCF Degree Programs

Medical Laboratory Sciences (B.S.)

College of Medicine

Burnett School of Biomedical Sciences

Health and Public Affairs II, Room: 335

<https://med.ucf.edu/biomed/>

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Admission Requirements

- Acceptance to the university does not necessarily constitute admission to the upper division Medical Laboratory Sciences program.
- Separate application to the limited access program should be made directly to the program in the Spring of the year admission is sought. Applications will be accepted until the class is filled.
- UCF application must also be submitted prior to program application. Acceptance to UCF is necessary before acceptance to the program can occur.
- Student must complete all general education, foreign language admissions, and program prerequisites prior to the start of the program.
- This limited access program is work-intensive and courses include clinical practice in a variety of settings. Due to this, it is strongly recommended that students be at least one-year post high school prior to applying to the program. Students with concerns or questions should contact the program to schedule an appointment with an advisor.
- All applicants must have a minimum overall GPA of 2.5, and complete all program prerequisite courses with at least a grade of "C" (2.0).

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students should complete the General Education Program, Foreign Language Admissions and the Common Program Prerequisite Requirements before transferring within the Florida College System or State University System.
- Students should consult with a departmental advisor.
- The courses designated in sections 1 and 2 below may be taken at a Florida College System institution, and should usually be completed in the first 60 hours.
- A minimum overall GPA of 2.5 and a minimum grade of "C" (2.0) in prerequisite and major courses is required for admission to, continuation in, and graduation from the Medical Laboratory Sciences Program.
- UCF Residency Requirement: 32 hours.
- The courses designated in sections 1 (General Education) and 2 (Common Program Prerequisites) should usually be completed in the first 60 hours.
- An FDLE background check, negative drug screen, and Board of Clinical Lab Personnel trainee license are required.

1. UCF General Education Program (GEP) (36 hrs)

A: Communication Foundations (9 hrs)

B: Cultural & Historical Foundations (9 hrs)

C: Mathematical Foundations (6 hrs)

Prefer MAC 1105C College Algebra 3 hrs
Required STA 2023 Statistical Methods I 3 hrs

D: Social Foundations (6 hrs)

E: Science Foundations (8 hrs)

Required BSC 2010C Biology I 4 hrs
Required CHM 2045C Chemistry Fundamentals I 4 hrs

2. Common Program Prerequisites (CPP) (25 hrs)

- See "Common Prerequisites" in the Transfer and

Transitions Services section for more information.

BSC 2010C Biology I GEP

STA 2023 Statistical Methods I GEP

¹ ZOO 3733C Human Anatomy 4 hrs

¹ MCB 3020C General Microbiology 5 hrs

¹ PCB 3703C Human Physiology 4 hrs

Take all of the following: 4 hrs

CHM 2045C Chemistry Fundamentals I and GEP

CHM 2046 Chemistry Fundamentals II and 3 hrs

CHM 2046L Chemistry Fundamentals Laboratory 1 hr

Take all of the following: 8 hrs

CHM 2210 Organic Chemistry I and 3 hrs

CHM 2211 Organic Chemistry II and 3 hrs

CHM 2211L Organic Laboratory Techniques I 2 hrs

¹ See Transfer Notes

3. Core Requirements: Basic Level

- None

4. Core Requirements: Advanced Level (64 hrs)

MLS 3220C Techniques in Clinical Microscopy 3 hrs

MLS 4625 Advanced Clinical Chemistry I 3 hrs

MLS 4630 Advanced Clinical Chemistry II 3 hrs

PCB 3233 Immunology 3 hrs

MLS 4430C Clinical Parasitology 3 hrs

MLS 3305 Hematology 3 hrs

MLS 4505C Immunodiagnostics 3 hrs

MLS 4910 Introduction to Clinical Research 1 hr

MLS 4550 Clinical Immunohematology 4 hrs

MLS 4460L Clinical Pathogenic Microbiology Lab 1 hr

MLS 4334 Hemostasis 3 hrs

MLS 4625L Advanced Clinical Chem I Lab 1 hr

PCB 3233L Immunology Laboratory 1 hr

MLS 3305L Hematology Lab 1 hr

MLS 4933 Medical Technology Seminar 2 hrs

MLS 3705 Concepts in Education/Management 3 hrs

MLS 4830L Interpretive & Practical Clinical Chemistry 4 hrs

MLS 4831L Interpretive & Practical Immunohematology 4 hrs

MLS 4832L Interpretive & Practical Hematology 4 hrs

MLS 4833L Diagnostic Microbiology 4 hrs

CGS 1060C Introduction to Computers 3 hrs

BSC 3403C Quantitative Biological Methods 4 hrs

MCB 3203 Pathogenic Microbiology 3 hrs

5. Restricted Electives

- None

6. Capstone Requirements

- None

7. Foreign Language Requirements

Admissions

- Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation

- None

8. Electives

- None

9. Additional Requirements

- None

10. Required Minors

- None

11. Departmental Exit Requirements

- A minimum 2.5 overall GPA is required for clinical assignment.
- The degree in Medical Laboratory Sciences will be awarded upon satisfactory completion of the University's didactic component and the clinical component in affiliated hospital laboratories.
- Upon receiving the degree in Medical Laboratory Sciences, the graduate will be eligible to take a national certification examination and then qualify for State Licensure.
- Students must earn a grade of "C" (2.0) or higher in required courses with a minimum 2.5 overall GPA for graduation.

UCF Degree Programs

12. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 39 hours of course work must be completed in residency at UCF.
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted.
- Complete the General Education Program, the Gordon Rule, and nine hours of Summer credit.

Total Semester Hours Required

- 126

Honors In Major

- None

Related Programs

- Biomedical Sciences
- Biology
- Chemistry

Certificates

- None

Related Minors

- Biomedical Sciences
- Biology
- Chemistry

Advising Notes

- None

Transfer Notes

- Students that transfer with an AA degree and will be pursuing a BS degree must meet the University foreign language admission requirements for graduation.

Acceptable Substitutes for Transfer Courses

Human Anatomy and Physiology I and II (BSC 2093/BSC 2094) 8 hrs

MCB 3020C General Microbiology 5 hrs

may be substituted with: MCB 2010C

Plan of Study

Freshman Year - Fall 16 hrs

MAC 1105C College Algebra 3 hrs

CHM 2045C Chemistry Fundamentals I 4 hrs

GEP 9 hrs

Freshman Year - Spring 17 hrs

ENC 1102 Composition II 3 hrs

BSC 2010C Biology I 4 hrs

CHM 2046 Chemistry Fundamentals II 3 hrs

CHM 2046L Chemistry Fundamentals Laboratory 1 hr

GEP 6 hrs

Sophomore Year - Fall 16 hrs

CHM 2210 Organic Chemistry I 3 hrs

ZOO 3733C Human Anatomy 4 hrs

GEP 9 hrs

Sophomore Year - Spring 17 hrs

CHM 2211 Organic Chemistry II 3 hrs

CHM 2211L Organic Laboratory Techniques I 2 hrs

MCB 3020C General Microbiology 5 hrs

PCB 3703C Human Physiology 4 hrs

GEP 3 hrs

Junior Year - Fall 14 hrs

MLS 3220C Techniques in Clinical Microscopy 3 hrs

MLS 4625 Advanced Clinical Chemistry I 3 hrs

MLS 4625L Advanced Clinical Chem I Lab 1 hr

PCB 3233 Immunology 3 hrs

PCB 3233L Immunology Laboratory 1 hr

MLS 4430C Clinical Parasitology 3 hrs

Junior Year - Spring 8 hrs

MLS 3305 Hematology 3 hrs

MLS 3305L Hematology Lab 1 hr

MLS 4630 Advanced Clinical Chemistry II 3 hrs

MLS 4460L Clinical Pathogenic Microbiology Lab 1 hr

MCB 3203 Pathogenic Microbiology 3 hrs

Junior Year - Summer 7 hrs

MLS 4334 Hemostasis 3 hrs

MLS 4550 Clinical Immunohematology 4 hrs

Senior Year - Fall

MLS 4830L Interpretive & Practical Clinical Chemistry 4 hrs

MLS 4831L Interpretive & Practical Immunohematology 4 hrs

MLS 4832L Interpretive & Practical Hematology 4 hrs

MLS 4833L Diagnostic Microbiology 4 hrs

Senior Year - Spring

MLS 4910 Introduction to Clinical Research 1 hr

MLS 4505C Immunodiagnostics 3 hrs

MLS 4933 Medical Technology Seminar 2 hrs

MLS 3705 Concepts in Education/Management 3 hrs

BSC 3403C Quantitative Biological Methods 4 hrs

Program Academic Learning Compacts

- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at:

http://www.oegas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fees

- Part-Time Student: \$39 per term

- Full-Time Student: \$78 per term