

*Maxine*



*I'm going to make sure  
your lab tests  
are done right!*

*J. Wagner*

So you think you  
want to be a  
MLT?

Introduction to the OTC  
MLT Program

# Faculty

Program Director:

**Mr. Tony Evans** - received his BA and MA degrees from Drake University and attended Lester E. Cox School of Medical Technology where he received his MLS(ASCP) certification. He has worked in the clinical laboratory as a Generalist and as Department Head of Hematology/Coagulation. Mr. Evans' background also includes working for laboratory equipment and supply manufacturers, in technical support, sales, and management. Mr. Evans has been teaching classes at OTC for five years. His teaching experience includes laboratory technique at Lester E. Cox School of Medical Technology and high school biology.



# Faculty

## Clinical Coordinator:

**Mrs. Danyel Anderson** - graduated from Missouri State University with a Bachelor of Science in Cell and Molecular Biology and Medical Technology and a minor in Chemistry. She completed her clinical internship in medical technology at St. John's Regional Medical Center in Joplin, Missouri, and achieved board certification from the American Society of Clinical Pathology. In 2002 received a Master in Public Health with an emphasis in epidemiology from Missouri State University. Prior to coming on board with OTC, worked as a general Medical Laboratory Scientist at Smith-Glynn- Callaway Laboratory in Springfield, Missouri. Mrs. Anderson also serves on the board for the Missouri Organization for Clinical Laboratory Science (MOCLS).



# Faculty

## Microbiology Instructor:

**Mrs. Sandra Vaughn** - graduated from Benedictine College in Atchison, KS with a B.S. in Pre-Medicine. She went on to SMSU in Springfield, MO to complete a M.S. in Microbiology. She worked at Pfizer Pharmaceutical in Lee Summit, MO in 2000 as a bench microbiologist. She returned to Springfield, MO to complete her MT, ASCP at Cox School of Medical Technology in 2001. She worked at Cox South Hospital as a MT for the next 11 years until she moved to the Federal Medical Center where she is currently working as a MLS. She has also been teaching microbiology at OTC since 2005. She started teaching microbiology with the OTC MLT program in 2011.



# What does an MLT do?

[http://youtu.be/Nk\\_n50wOypw](http://youtu.be/Nk_n50wOypw)

# History Of The Program

## **1st Class 2008-2009**

12 started the program, 11 graduated  
11 students took the BOC and 10 passed  
All 11 graduates are working in the field

## **2nd Class 2009-2010**

11 started the program, 9 graduated  
9 students took the BOC and 8 passed  
All 9 graduates are working in the field

## **3rd Class 2010-2011**

15 started the program, 11 graduated  
10 students took the BOC, 9 passed  
10 graduates are working in the field

## **4th Class 2011-2012**

15 started the program, 9 graduated  
8 students have taken BOC, passed, and are working in the field

## **5th Class 2012-2013**

16 started the program, 12 graduated  
11 students have taken BOC, passed and are working in the field.

## **6th Class 2013 – 2014**

16 started the program, 11 graduated  
All 11 took the BOC, passed, and are working in the field

## **7th Class 2014 – 2015**

14 started the program, 8 graduated  
All 8 took the BOC, passed, and are working the field

## **8th Class 2015 – 2016**

16 students started the program, 10 graduated  
All 10 took the BOC, passed, and are working in the field

## **9th Class 2016 – 2017**

14 students started the program, 10 graduated  
All 10 took the BOC, passed, and are working in the field

## **10th Class 2017 – 2018**

12 students started the program, 11 are currently enrolled

## **11th Class 2018 – 2019: Could Be You**



# The OTC MLT Program

First year (and sometimes second year, especially if you test into MTH 050) devoted to prereqs:

**BCS 165 Human Anatomy \*\*PREFERRED\*\***

**MTH-110 Intermediate Algebra or higher (MTH 128)**

**CHM-101 Introductory Chemistry or General Chemistry (160/161)**

**ENG-101 Composition I**

**BCS 205 Human Physiology \*\*PREFERRED\*\***

**BCS-200 Microbiology \*\*CAN NOT TAKE IN THE SUMMER\*\***

**PLS-101 American Government and Politics or HST 120**

**PSY-110 Introduction to Psychology or HST 130**

**The Spring before you apply you MUST take:**

**MLT-100 Intro to the Medical Lab (Only Offered In Spring – Online 16 week course)**

**PLB-100 Introduction to Phlebotomy (Only Offered In Spring – 2<sup>nd</sup> 8 weeks)**

**PLB-101 Phlebotomy Clinical (Only Offered In The Summer – 100 hours)**

**The Summer before you start you MUST take: MLT 205 Immunology**

## Medical Laboratory Technician

Preadmission Requirements	Preadmission Requirements	Summer	Fall	Spring
**Anatomy & Physiology I (or Anatomy) BCS 165 4	**Anatomy & Physiology II (or Physiology) BCS 205 4	Clinical Immunology MLT 205 2	Hematology MLT 200 4	Immuno-hematology MLT 220 4
English Composition I ENG 101 3	Intermediate Algebra MTH 110 3	Phlebotomy Clinic PLB 101 1	Clinical Chemistry MLT 210 4	Clinical Microbiology MLT 230 4
<sup>4</sup> Human Communications * COM 100 3	<sup>2</sup> Introduction to Psychology PSY 110 3	3 Hours	Urinalysis & Body Fluids MLT 215 2	Clinic Seminar & Review MLT 240 2
Introductory Chemistry CHM 101 4	Intro to the Medical Lab MLT 100 1		Clinical Practicum II MLT 260 (2 <sup>nd</sup> 8 weeks) 8	Clinical Practicum III MLT 270 (2 <sup>nd</sup> 8 weeks) 8
<sup>3</sup> American Gov't & Politics PLS 101 3	Microbiology BCS 200 4		18 Hours	18 Hours
17 Hours	Intro to Phlebotomy PLB 100 2			
	17 Hours			

**AAS Degree**  
**73 Semester Hours**



# Medical Laboratory Technician - **Articulation Pathway**

Preadmission Requirements	Preadmission Requirements	Summer	Fall	Spring
**Anatomy & Physiology I (or Anatomy) BCS 165 4	**Anatomy & Physiology II (or Physiology) BCS 205 4	Clinical Immunology MLT 205 2	Hematology MLT 200 4	Immuno-hematology MLT 220 4
English Composition I ENG 101 3	Human Communications COM 100 3	Phlebotomy Clinic PLB 101 1	Clinical Chemistry MLT 210 4	Clinical Microbiology MLT 230 4
Intermediate Algebra MTH 110 3	<b>U.S. History II</b> <b>HST 130</b> 3	3 Hours	Urinalysis & Body Fluids MLT 215 2	Clinic Seminar & Review MLT 240 2
<b>General Chemistry</b> <b>CHM 160/161</b> 5	Intro to the Medical Lab MLT 100 1		Clinical Practicum II MLT 260 (2 <sup>nd</sup> 8 weeks) 8	Clinical Practicum III MLT 270 (2 <sup>nd</sup> 8 weeks) 8
<b>U.S. History I</b> <b>HST 120</b> 3	Microbiology BCS 200 4		18 Hours	18 Hours
18 Hours	Intro to Phlebotomy PLB 100 2			
	17 Hours			

**AAS Degree**  
**74 Semester Hours**

# Important Things to Note About Prereqs

- Preference is given to **BCS 165/205** (over BCS 145/146)
- You must have completed CHM 101 (or CHM 160) before you can enroll in BCS 205
- **Core science courses can not be taken the summer before you start the program**
- All science and math courses must have been taken in the last **five** years
- You must have a **C** or better in all prereqs
- You must have an overall **GPA of 2.5** or above to apply for the program
- You may not complete ANY prereq while enrolled in the program

# MLT to MLS prep

If you plan on going on to get a four year degree, these are courses that are not required for our program, but may be needed when you transfer.

- Instead of PLS take HST 120
- An additional World or US History (HST 130)
- Two Fine Arts Courses (Introduction to Music, Art, Theater, or Philosophy – Not performance courses)
- Two additional English courses, which must include a Composition Course and a Literature Course.
- Two social science courses from two different departments (sociology, psychology, history, political science, geography)
  - If you use a history course to meet the history requirement, you can not use it here.

# What do I need to be aware of for the Spring Semester?

Spring	
Intro to the Medical Lab MLT 100	1
Intro to Phlebotomy PLB 100	2

- You must take MLT 100, it is online for 16 weeks and only offered in the Spring.
- You must take PLB 100. It is an eight week course that meets Tuesdays and Thursdays from 10-12 at the RVC campus.
  - May also take as a 1<sup>st</sup> eight week block course

# What do I need to be aware of for the Summer Semester?

Summer	
Clinical Immunology MLT 205 2	
Phlebotomy Clinic PLB 101 1	

- You must take PLB 101, a 100 hour clinical course.
  - May also take it in the Spring semester if you do not have course conflicts
  - May need to do two background checks
- You must take MLT 205. It is an eight week summer course that meets Tuesdays and Thursdays from 1-3 at the RVC campus.

# What happens during the program?

Fall	Spring
Hematology MLT 200 4	Immuno-hematology MLT 220 4
Clinical Chemistry MLT 210 4	Clinical Microbiology MLT 230 4
UA & Body Fluids MLT 215 2	Clinic Seminar & Review MLT 240 2
Clinical Practicum II MLT 260 (2 <sup>nd</sup> 8 weeks) 8	Clinical Practicum III MLT 270 (2 <sup>nd</sup> 8 weeks) 8

Each semester is composed of 8 weeks of didactic at the RVC campus followed by an 8 week clinical rotation

- Be prepared to have little to no social time during the didactic portion
- Micro will be an evening class
- Be prepared to travel during your clinical rotation



# Application to the Program

- All completed applications must be received by **February 15<sup>th</sup>**.
- Interviews will take place prior to Spring break
- You will receive a letter of acceptance or denial in the following two weeks

# Acceptance Process

- Points are given based on GPA, references and interview scores.
- Top 20 applicants are accepted

QUESTIONS

