Our History

1960: Saint Francis Hospital opens
1975: Natalie Warren Bryant Cancer Center is added
1978: Trauma Emergency Center opens
1987: First Warren Clinic opens in Stillwater, OK
1990: Laureate Psychiatric Clinic is established
1995: Children’s Hospital opens (expanded in 2008)
2003: SF Imaging Center opens
2004: SF Heart Hospital opens
2008: Henry Zarrow NICU opens
2014: Trauma Emergency Tower opens

William K. and Natalie Warren, oil pioneers in Tulsa, gave back to their community by building Saint Francis Hospital
Organizational Overview

Saint Francis
Health System

SAINT FRANCIS
HOSPITAL SOUTH
SAINT FRANCIS
HOSPITAL VINITA
SAINT FRANCIS
HOSPITAL
WARREN CLINIC
LAUREATE PSYCHIATRIC
CLINIC AND HOSPITAL
SAINT FRANCIS
HOSPITAL MUSKOGEE

Community Care

All Saints
Home Medical

THE CHILDREN'S HOSPITAL
AT SAINT FRANCIS
TRAUMA EMERGENCY CENTER
PATIENT BED TOWER
SAINT FRANCIS
HEART HOSPITAL
We perform lab testing on blood and other body fluids by applying biology and chemistry principles to aid in the diagnosis of disease.

A diagnostic science that involves the performance of simple to complex testing procedures in a clinical laboratory.

Other names: Medical Technology, Clinical Laboratory Science.
Linking of technology and information to health and medicine

Lab results account for 70% of the objective information used by physicians for the diagnosis, management, and resolution of patient health problems.
What kinds of diseases do laboratory tests detect?

- Cancer
- Heart attacks
- Diabetes
- Bacterial and viral infections
- Drugs of abuse
- Therapeutic drugs
I Am A Medical Laboratory Scientist
What skills are needed?

- Problem solving skills
- Critical thinking skills
- Effective communication
- Multitasking
- Detail-oriented
- Work well both independently and as part of a team
- Commitment to the patient
What are the Educational Requirements?

**College**
- Bachelor of Science degree
- Math, Biological Science, Chemistry, and Other Recommended Courses

**Clinical Internship**
- NAACLS Accredited Medical Laboratory Science Program

**National Certification Examination**
- ASCP
Does Oklahoma have a NAACLS accredited Medical Laboratory Science Program?

1. Saint Francis Hospital, Tulsa
2. Comanche County Memorial Hospital, Lawton
3. Mercy Hospital, Ada
4. Mercy Hospital, Ardmore
Saint Francis Hospital
School of Medical Laboratory Science

Clinical Internship

Located onsite at Saint Francis Hospital in Tulsa, Oklahoma

51 week unpaid internship:  May 21, 2018 – May 10, 2019
40 hours per week of clinical education
60% in clinical laboratory at SFH
40% in classroom at SFH
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Clinical Internship

Phlebotomy

Microbiology

Hematology

Immunology/HLA

Chemistry

Flow Cytometry

Blood Bank

Genetics
Phlebotomy

Proper collection, handling, and processing of blood specimens
Hematology

Evaluation of normal/abnormal cells in blood
  - White blood cells
  - Red blood cells
  - Platelets
Analysis of urine and other body fluids
Assessment of the blood clotting system
  - Monitor patients on blood thinner
  - Factor deficiencies
What is in a drop of blood?
What’s wrong with these RBCs?
What’s wrong with these RBCs?
What’s wrong with these RBCs?
What’s wrong with these WBCs?
Chemistry

Biochemical analysis of blood and other body fluids to assess metabolic disorders and organ function
Immunology

Detects allergies, autoimmune diseases, and infectious diseases
Performs pre-transfusion testing on red blood cells and serum in order to ensure that donated blood products are compatible with the recipient.
Microbiology

Isolates, identifies, and performs antibiotic susceptibility testing on microorganisms
Microbiology

E. Coli

Staphylococcus

Salmonella
Molecular genetics involves amplification of DNA to detect genetic disorders. Cytogenetics consists of chromosome analysis.
Community Outreach

Students have the opportunity to participate in several community outreach events
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School of Medical Laboratory Science

Admission Requirements

Applicants must meet one of the following:

1. Baccalaureate Candidate (3 + 1 Option)
   3 years of college + 1 year MLS internship

2. Post Baccalaureate Candidate (4 + 1 Option)
   Baccalaureate degree + 1 year MLS internship
Academic Requirement

Minimum GPA for admission
2.50 Overall GPA on a 4.00 scale
2.50 GPA in biology/chemistry courses
Grade of “C” or better in biology and chemistry courses

Average Incoming GPA is 3.30
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Academic Prerequisites

Biology (minimum of 16 credit hours)
Microbiology
Immunology
Anatomy and/or Physiology
Biological Science Elective(s)
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Academic Prerequisites

Chemistry (minimum of 16 credit hours)
Inorganic Chemistry (2 courses)
Organic Chemistry
Biochemistry
Chemistry Elective(s)
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Academic Prerequisites

Math
College Algebra or higher
Application Process: Step 1

Submit application and official transcript(s) in the Fall of the year preceding entry into the program

Application and official transcripts are due by October 15th

Late applications will not be accepted!
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Application Process: Step 2

Submit the following additional information by Nov 1st

List of courses in progress and/or planned
Academic references (2)
Employer reference (if applicable)
Criminal background report

Late additional information will not be accepted!
Selection Criteria

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School of Medical Laboratory Science

12 applicants will be selected based on the following:

Interview (oral and written)
Career motivation
Knowledge of profession
Grade point average
Communication skills
Academic references (2)
Employment reference
Background check
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Student Employment/Scholarships

Part-time employment as a laboratory technician may be available to students on a limited basis during the year.

Scholarship opportunities are available from Saint Francis Hospital, American Society for Clinical Pathology, American Proficiency Institute, and American Society for Clinical Laboratory Science.
Completion of the MLS Program

Baccalaureate candidate (3+1) will earn 30 hours of college credit to complete a B.S. degree from the university and receive a certificate of completion and pin from the medical laboratory science program.

Medical laboratory science program graduates are eligible to take the ASCP (BOC) national exam in order to become certified.

Graduation is not contingent upon passing the certification exam.
### Program Outcomes

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<thead>
<tr>
<th></th>
<th>Saint Francis Hospital</th>
<th>NAACLS Benchmarks</th>
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<tbody>
<tr>
<td>Graduation Rate:</td>
<td>100% (28/28)</td>
<td>70%</td>
</tr>
<tr>
<td>Attrition Rate</td>
<td>0% (0/28)</td>
<td>N/A</td>
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<tr>
<td>Certification Rates</td>
<td>96% (27/28)</td>
<td>75%</td>
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<tr>
<td>Placement Rates</td>
<td>96% (27/28)</td>
<td>70%</td>
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<tr>
<td>Retention Rate at SFH</td>
<td>71% (21/28)</td>
<td>N/A</td>
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Is this right for me?

- Have a strong interest in science?
- Want a career in health care with minimal patient contact?
- Like challenge and responsibility?
- Like to solve problems?
- Are you a team player?
- Work well under pressure?
- Are you self-motivated?
- Enjoy working with computers and new technology?
- Are you detail-oriented?
In Conclusion...

Perfect Blend of Science, Medicine, and Technology
Challenging, Interesting, Continuously Changing
Excellent Career Outlook

“I wish I had heard about this sooner!”

I the Laboratory!!
For more information, contact:

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