Further your expertise and improve your employment options with a program that grows in-demand skills for the diagnostics and wellness industries. Between 2019 and 2021, this program has achieved a 96% graduation rate, a 95% job placement rate and a 81% pass rate on national certification examinations.

**Program Description**

The BAS program in applied science with a concentration in medical laboratory sciences provides the academic knowledge and professional skills that enable students to advance their employment opportunities within the fields of medical technology, cytology, clinical laboratory science and related areas.

Medical laboratory scientists, also known as clinical laboratory scientists, are highly skilled professionals who perform analytical tests on blood, tissue and body fluids to provide laboratory information for the detection, diagnosis and treatment of human diseases. These professionals work independently using skills and knowledge that are greater in depth and breadth compared to those of medical laboratory technicians, who typically are graduates of a two-year or community college program. In addition, there is a growing trend for medical laboratory scientists to perform wellness laboratory testing aimed at preventing disease.

The program is accredited by the National Accrediting Agency for Clinical Laboratory Science, 5600 N. River Rd, Suite 720, Rosemont, IL 60018, [https://www.naacls.org/](https://www.naacls.org/).

Additional information including the program handbook and course guide can be found on the program website at [https://chs.asu.edu/programs/applied-science-medical-laboratory-science](https://chs.asu.edu/programs/applied-science-medical-laboratory-science).

**At a Glance**
• College/School: College of Health Solutions
• Location: Downtown Phoenix

• Additional Program Fee: Yes
• Second Language Requirement: No
• First Required Math Course: MAT 142 - College Mathematics
• Math Intensity: General

Required Courses (Major Map)

2022 - 2023 Major Map
Major Map (Archives)

Concurrent Program Options

Students pursuing concurrent degrees (also known as a "double major") earn two distinct degrees and receive two diplomas. Working with their academic advisors, students can create their own concurrent degree combination. Some combinations are not possible due to high levels of overlap in curriculum.

Admission Requirements

General University Admission Requirements:
All students are required to meet general university admission requirements.
First-year | Transfer | International | Readmission

Additional Requirements:

Only students who have been admitted through Phoenix College and who have completed the prerequisite coursework, verified by the program director or program advisor, are eligible to apply to this program. The following requirements are a part of the application process and are included in the separate program application, released to those who are considered eligible during a specified application cycle:

1. Gain admission to Phoenix College.
2. Complete the program application, which should include:
   1. student information
   2. coursework
   3. immunizations
   4. proof of basic life support or CPR certification
   5. fingerprint clearance card
   6. health declaration
   7. experience in medical laboratory sciences
   8. employment observation verification
   9. references
3. Review and sign the checklist.
4. Submit the materials to:

CHS Student Services
Mail Code 9020 ATTN: MDL Program
Arizona State University
500 N 3rd St
Phoenix AZ 85004

6. Apply to Arizona State University.

**Change of Major Requirements**

Only students who have completed an Associate of Applied Science degree are eligible to declare a Bachelor of Applied Science major at ASU.

Students should refer to [https://changemajor.apps.asu.edu](https://changemajor.apps.asu.edu) for information about how to change a major to this program.

**Transfer Options**

ASU is committed to helping students thrive by offering tools that allow personalization of the transfer path to ASU. Students may use MyPath2ASU™ to outline a list of recommended courses to take prior to transfer.

ASU has transfer partnerships in Arizona and across the country to create a simplified transfer experience for students. These pathway programs include exclusive benefits, tools and resources, and they help students save time and money in their college journey. Students may learn more about these programs by visiting the admission site: [https://admission.asu.edu/transfer/MyPath2ASU](https://admission.asu.edu/transfer/MyPath2ASU).

**Global Opportunities**

**Global Experience**

With over 250 programs in more than 65 countries (programs vary in length, from one week to one year), study abroad is possible for all ASU students who wish to acquire global skills and knowledge in preparation for a 21st century career. Students earn ASU credit for completed courses, while staying on track for graduation, and they may apply financial aid and scholarships toward program costs. Students can find more information on the Global Education website at [https://goglobal.asu.edu/](https://goglobal.asu.edu/).

**Career Opportunities**
The Bureau of Labor Statistics reports that overall employment of medical laboratory scientists is projected to grow 11% between 2018 and 2028. This is much faster than the average for most occupations. As the overall population ages, there will be more demand for trained laboratory personnel to aid in the diagnosis of disease and to help manage medical conditions.

The majority of medical laboratory scientists and technologists work in hospital laboratories and major reference laboratories.

Career examples include but are not limited to those shown in the following list. Advanced degrees or certifications may be required for academic or clinical positions.

<table>
<thead>
<tr>
<th>Career</th>
<th>*Growth</th>
<th>*Median Salary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laboratory Technologist</td>
<td></td>
<td>not available</td>
</tr>
<tr>
<td>Medical Scientist</td>
<td>6.1%</td>
<td>$91,510</td>
</tr>
<tr>
<td>Microbiologist</td>
<td>3.1%</td>
<td>$84,400</td>
</tr>
</tbody>
</table>

* Data obtained from the Occupational Information Network (O*NET) under sponsorship of the U.S. Department of Labor/Employment and Training Administration (USDOL/ETA).

🌞 Bright Outlook  🌿 Green Occupation

**Professional Licensure**

ASU programs that may lead to professional licensure or certification are intended to prepare students for potential licensure or certification in Arizona. Completion of an ASU program may not meet educational requirements for licensure or certification in another state. For more information, students should visit the ASU professional licensure webpage. [https://admission.asu.edu/academics/licensure](https://admission.asu.edu/academics/licensure)

**Contact Information**

[College of Health Solutions](mailto:chs@asu.edu) | HLTHN 401AA  
[chs@asu.edu](mailto:chs@asu.edu) | 602-496-3300