Applied Science (Medical Laboratory Science), BAS

NUMLSBAS

From 2018 to 2020, this program has achieved a 98% graduation rate, a 93% job placement rate and a 78% 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](https://chs.asu.edu/programs/applied-science-medical-laboratory-science)
- **Location:** Downtown Phoenix campus
- **Additional Program Fee:** Yes
- **Second Language Requirement:** No
- **First Required Math Course:** MAT 142 - College Mathematics
- **Math Intensity:** General

**Required Courses (Major Map)**

2021 - 2022 Major Map
Major Map (Archives)

**Admission Requirements**

**General University Admission Requirements:**
All students are required to meet general university admission requirements.

[Freshman] | [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™](https://asu-my.pathway2asu.com) 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 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/pathway-programs](https://admission.asu.edu/transfer/pathway-programs).

**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 wishing to gain 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.

[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% from 2018 to 2028. This is much faster than the average of 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.
### Career Growth and Median Salary

<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

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### Contact Information

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