

Applied Science (Medical Laboratory Science), BAS

NUMLSBAS

Finish your bachelor's degree, further your expertise and improve your employment options with a program that grows in-demand skills for the diagnostics and wellness industries.

Program description

The BAS degree program with a concentration in medical laboratory sciences enables students to perform analytical tests on blood, tissue and body fluids in order to provide laboratory information for the detection, diagnosis and treatment of human diseases.

Students learn to work independently using skills and knowledge that are greater in depth and breadth compared with those of medical laboratory technicians, who are typically graduates of a two-year or community college program.

This 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>.

Program outcomes

Measures for the past 3 active years are as follows and will be updated accordingly:


Year: 2021, graduation rate: 100%, certification examination pass rate: 86%, job placement rate: 88%

Year: 2022, graduation rate: 94%, certification examination pass rate: 70%, job placement rate: 88%

Year: 2023, graduation rate: 100%, certification examination pass rate: 82%, job placement rate: 94%

At a glance

- College/School: [College of Health Solutions](#)
- Location: [Downtown Phoenix](#)

- **Second language requirement:** No
- **First required math course:** MAT 142 - College Mathematics
- **Math intensity:** General 

Required courses (Major Map)

[2024 - 2025 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, which is 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. background check
 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

5. Apply to Arizona State University.

Tuition information

When it comes to paying for higher education, everyone's situation is different. Students can learn about [ASU tuition and financial aid](#) options to find out which will work best for them.

Change of Major Requirements

Only students who have completed an Associate of Applied Science degree and who have completed the prerequisite coursework, verified by the program director or program advisor, are eligible to change their major to this program. Interested ASU students should contact a program advisor for more information.

Students should visit the [Change of Major form](#) 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.

Global opportunities

Global experience




With more than [300 Global Education program opportunities](#) available to them, applied science students are able to tailor their experience to their unique interests and skill sets. Whether in a foreign country, in the U.S. or online, students build communication skills, learn to adapt and persevere, and are exposed to research and internships across the world, increasing their professional network.

Career opportunities

Graduates are able to advance employment opportunities within the fields of medical technology, cytology, clinical laboratory science and related areas.

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.

Example job titles and salaries listed below are not necessarily entry level, and students should take into consideration how years of experience and geographical location may affect pay scales. Some jobs also may require advanced degrees, certifications or state-specific licensure.

Career	*Growth	*Median salary
<u>Laboratory Technologist</u> 	4.9%	\$57,380
<u>Medical Scientist</u> 	9.8%	\$99,930
<u>Microbiologist</u> 	5.2%	\$81,990

* 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

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.

Contact information

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