

Biomedical Diagnostics, MS

NHBMDMS

Learn the fundamentals of biomedical diagnostics and gain practical experience through a blended, global classroom setting. Earn your degree online --- and propel your career --- in as little as one year.

Program description

Degree awarded: MS Biomedical Diagnostics

Students studying biomedical diagnostics gain insights into a growing industry that is at the center of health care innovation and personalized medicine. The MS program in biomedical diagnostics can be completed in one year, if enrolled full time.

The biomedical diagnostics program has been designed by expert faculty with significant experience in the business, legal and technical aspects of diagnostics.

Students in this program will progress through the four foundational areas:

- application of diagnostics
- business of diagnostics
- science of diagnostics
- technology of diagnostics

Students complete a culminating experience in which they work with fellow students on a team-based project with diagnostics leaders in the industry on a topic driven by real needs in the field.

At a glance

- **College/School:** [College of Health Solutions](#)
- **Location:** [Online](#)

Degree requirements

31 credit hours including the required applied project course (BMD 593)

Required Core (19 credit hours)

BMD 502 Foundations of Biomedical Informatics Methods I (3)

BMD 510 Current Perspectives in Biomedical Diagnostics (3)

BMD 513 Principles of Diagnostic Technology: Immunoassays (4)

BMD 514 Principles of Diagnostic Technology: Molecular Diagnostics (3)

BMD 667 Regulation of Medical Diagnostics (3)

HCD 511 Health Economics and Policy (3)

Electives (6 credit hours)

Research (3 credit hours)

BMD 592 Research (3)

Culminating Experience (3 credit hours)

BMD 593 Applied Project (3)

Additional Curricular Information

Students should see the academic unit for a list of approved elective courses. BMD 592 and BMD 593 are contiguous courses and cannot be taken in different academic years.

Admission requirements

Applicants must fulfill the requirements of both the Graduate College and the College of Health Solutions.

Applicants are eligible to apply to the program if they have earned a bachelor's or master's degree from a regionally accredited college or university in one of the following fields, or a closely related field: biomedical informatics, biology, life sciences, chemistry, biochemistry, engineering, biomedical engineering, business, computer science, supply chain management, health sciences or medical studies.

Applicants must have a minimum cumulative GPA of 3.00 (scale is 4.00 = "A") in the last 60 hours of their first bachelor's degree program, or applicants must have a minimum cumulative GPA of 3.00 (scale is 4.00 = "A") in an applicable master's degree program.

All applicants must submit:

1. graduate admission application and application fee
2. official transcripts
3. two references (academic or professional)
4. resume or curriculum vitae

5. statement of purpose
6. proof of English proficiency

Additional Application Information

An applicant whose native language is not English must provide proof of English proficiency regardless of their current residency.

The one- to two-page statement of purpose should include the applicant's interest in the program, what they expect to learn from the program, their professional goals, and a short description of their background in the sciences.

Contact information for two references is required. References will be contacted via email to submit a letter of recommendation and respond to a series of questions about the applicant.

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.

Attend online

ASU Online

ASU offers this program in an online format with multiple enrollment sessions throughout the year. Applicants may [view the program's ASU Online page](#) for program descriptions and to request more information.

Application deadlines

Fall

Spring [expand](#)

[expand](#)

Career opportunities

Professional opportunities are quite broad and depend on the student's educational and work backgrounds as well as their personal interests. Graduates can pursue diverse options such as executive leadership, competitive intelligence, research and development, laboratory management or entrance to professional school. The following career examples are just a small portion of the possibilities:

Analysts

- clinical research
- competitive intelligence
- quality assurance

- research lab

Department and organizational leadership

- diagnostics
- laboratory
- regulatory compliance
- research and development

Managers

- accounts
- clinical research
- marketing and sales
- medical and health services
- product
- quality control
- research lab
- program and project management

Laboratorians and technologists

- clinical lab
- research lab

Contact information

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