Balance
The Computational Biosciences Professional Science Masters (PSM) Degree at Arizona State University is designed to prepare the next generation of biotechnical professionals. The core courses in computational biology and business provide the technical rigor needed to tackle complex problems, along with the acumen needed to thrive in a corporate environment.

Flexibility
For working professionals looking to advance their career, the degree can be completed on a part-time basis starting in either the Fall or Spring semester. Furthermore, requirements outside of the core can be tailored to individual strengths and interests. These electives are chosen from one of the following four tracks:
- Bioinformatics
- Computational Molecular Biology
- Physiological Modeling
- Quantitative Ecology

Requirements
The Computational Biosciences PSM Degree consists of 18 units of core coursework, 6 units of professional development, 12 units of track-specific electives, and 6 units of internship.

Courses
- Modeling and Computational Biology (4 units)
- Applications and Complex Problem Solving in Computational Biology (4 units)
- Intro to Structural and Molecular Biology (4 units)
- Multivariate Statistical Analysis (3 units)
- Experimental Design (3 units)
- Business Issues and Ethics (6 units)
- Internship (6 units)
- Electives (12 units)

Internships
An applied internship project at the end of the program allows participants to apply their technical skills, gain practical experience, and forge industry connections that can pave the way for future employment. Students are free to explore opportunities in the biotechnical and biomedical industries, both within the Phoenix metropolitan area and around the globe.

Faculty
The program’s affiliated faculty come from a wide array of disciplines including the Life Sciences, Mathematics, Computer Engineering, Biochemistry, and Business.

Prerequisites
Successful applicants will have completed Sophomore-level courses in mathematics, statistics, chemistry, biology, and computer science prior to admission. Applicants should complete the prerequisite courses at ASU or at their undergraduate institution prior to matriculation.

Applications
Applications are submitted through the web at graduate.asu.edu. Materials include:
- Three Letters of Recommendation
- A Statement of Purpose
- Official GRE Scores (considered, but not required)

Applicants must also complete the items listed on the Graduate Admissions Checklist, which can be found on the Graduate College’s web site.

Contact
We invite you to start the journey toward an advanced biotechnical career. The first step is to visit our web site, math.asu.edu/~cbs. If you have any questions, please contact us at cbs@math.asu.edu.

Computational Biosciences PSM
Arizona State University
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Industry
The disciplines of the life sciences are requiring more mathematical and computational analyses than ever before. While some mathematical approaches have been applied to biological questions for many years, advances in computational capability have increased the pace of bioscience research to unprecedented levels of speed, precision, and detail. The Computational Biosciences PSM Degree was created in consultation with local industry in order to meet the increased demand for individuals with advanced training. The program, which is designed to be completed in as little as 18 months, combines the technical elements of a traditional science master’s degree with business skills typically seen in an MBA. The additional coursework of the PSM gives graduates the competitive edge that today’s employers seek.

WHY A PSM?
Bioinformatics • Computational Molecular Biology • Physiological Modeling • Quantitative Ecology • Bioinformatics • Computational Molecular Biology • Physiological Modeling • Quantitative Ecology • Bioinformatics

ASU Arizona State University

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