Biomimicry, MS

Use the world of biology to integrate biomimicry principles into your current or planned profession and learn to serve as a leader in a network of researchers and practitioners.

Program Description

Degree Awarded: MS Biomimicry
The MS program in biomimicry is offered in conjunction with The Biomimicry Center, in cooperation with Biomimicry 3.8, the internationally recognized leader in the field.

Biomimicry, the practice of emulating nature's strategies for human designs, empowers change agents passionate about a world mentored by life's genius to work toward innovative and sustainable solutions to pressing global challenges, exploring the way business is conducted, buildings and products are designed, governments operate, health care is provided, goods are manufactured and how future generations will be educated --- all inspired by nature's time-tested sustainable solutions developed over the last 3.8 billion years.

The program's curriculum focuses on this emerging field, with a sustainability emphasis. It is designed to prepare students to facilitate the practice of biomimicry across corporate, government, education and nongovernment organization sectors. In addition to core content and electives, students gain biomimicry experience in biome-based applications, business case studies, biological strategy research and in each participant's self-designed biomimicry project in the student's chosen career field.

At a Glance

- **College/School:** College of Global Futures
- **Location:** Online
Degree Requirements

30 credit hours and a portfolio

Required Core (13 credit hours)
BMY 501 Essentials of Biomimicry (1)
BMY 502 Life's Principles (4)
BMY 503 Biology Taught Functionally (4)
BMY 504 Biomimicry Thinking (4)

Electives or Research (11 credit hours)

Other Requirements (6 credit hours; choose 3)
BMY 530 Virtual Design Lab Practicum (2)
BMY 580 Topic: BioBrainstorm Practicum (2)
BMY 580 Topic: Biomimicry Case Study Practicum (2)
BMY 580 Topic: Biomimicry Genius of Place Practicum (2)

Culminating Experience
portfolio

Additional Curriculum Information
For electives or research, students should contact the academic unit for the approved course list.

Admission Requirements

Applicants must fulfill the requirements of both the Graduate College and the College of Global Futures.

Applicants are eligible to apply to the program if they have earned a bachelor's or master's degree from a regionally accredited institution.

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.

Applicants must submit the following:

1. graduate admission application and application fee
2. official transcripts
3. questionnaire (to be filled out and uploaded)
4. curriculum vitae or resume
5. three letters of recommendation
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.

Tuition Information
When it comes to paying for college, 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
Summer

Global Opportunities

Global Experience
Study abroad is possible for graduate students. There are more than 50 program opportunities, with programs on every continent.

Faculty-directed programs tend to be the best fit for graduate students; taking courses over the summer or during academic breaks with ASU professors offers close mentorship and professional network growth in many fields of study while earning ASU credit. Exchange program participation is also possible with careful planning. More information on available programs can be found on the Global Education Office website.

The biomimicry program offers a unique global network of participants, with more than 30% of the student population being comprised of international students. In addition to multiple collaboration opportunities across the program with a diverse set of peers, one has the ability to custom design one or more of their practicum courses to include study abroad.
Career Opportunities

Training in biomimicry offers a toolkit of transferable skills that enhance work in any trade: commercial, industrial or government. Graduates engage and lead others within their organization by practicing and demonstrating world-class biomimicry. Opportunities include leading research groups focused on biomimicry thinking, developing in-house training and biomimicry tools for companies, becoming a biologist at the design table or directing sustainability efforts.

The knowledge and skills gained can also lead to initiating or transforming a consulting practice into the field of biomimicry. Biomimicry helps set professionals apart, brings about positive change, and complements or creates any career path.

As a transdisciplinary, transformative field, the unprecedented challenges the world faces today demand new thinking, perspectives, tools and solutions. Training in biomimicry uniquely positions one for careers and opportunities that don't yet exist but which the world is demanding.

From the School of Complex Adaptive System's 2021 alumni employment survey, 100% of biomimicry graduates that responded are employed or pursuing continuing education. Of those respondents employed, 64% have jobs directly related to biomimicry.

Contact Information

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