

# DEFEND AGAINST BIOLOGICAL THREATS

## Professional Certificate in Biosecurity



**It's up to people like you—with a knack for science, safety, and problem-solving—to defend against biological risks and protect communities, food systems, and the environment.** From pandemics to invasive species, today's challenges demand leaders who can anticipate threats and build resilience.

The Professional Certificate in Biosecurity turns your strengths into career-ready expertise. In just 12 units, you'll learn to assess vulnerabilities, design prevention strategies, apply evolving technologies, and analyze real-world case studies across health, agriculture, and infrastructure.

The growth opportunity has never been bigger: biosecurity-related fields are projected to expand by 14% or more between 2023 and 2033. Offered in partnership with UCR's College of Natural and Agricultural Sciences and Environmental Health & Safety, this program equips you to safeguard people and ecosystems while advancing your career.

### WHAT YOU'LL LEARN

Gain a solid understanding of biosecurity principles and global frameworks

Identify and assess threats to health, food, and agriculture using proven tools

Design and evaluate programs that integrate science, regulation, and technology

Analyze evolving technologies and regulatory gaps to shape adaptive policy

Synthesize lessons from case studies to propose evidence-based solutions

Strengthen and monitor critical biosecurity infrastructure

 **TOTAL UNITS**  
12

 **TUITION**  
\$5,268

 **COMPLETION TIME**  
9-12 months

 **FORMAT**  
Hybrid



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## BENEFITS OF EARNING A CERTIFICATE

There are several reasons why, Bachelor's degree in hand, you might be considering continuing your studies. An upgraded education section on your resume can open the door to a new career, or, if you're already working, lead to a promotion and a higher salary. While you're working, going back to school is an excellent way to stay current in rapidly changing fields, or, if you've been away from the workforce for a while, to quickly get caught up in the latest trends, concepts, and advances.

While there are as many paths to follow, as there are reasons to follow them when approaching continuing education, there is enormous value in terms of time, financial investment, and personal flexibility while gaining practical training from working professionals in your industry that extends beyond the theory of the classroom and into the real world.

### KEY BENEFITS INCLUDE:

- UC quality curriculum
- Professional endorsements
- Schedule flexibility
- Variety of courses and programs
- Instruction from professional leaders in the industry

## PAY AS YOU GO



Pay per individual course as you register.

COURSE TUITION RANGE  
**\$1,317 PER COURSE**

\*Learn more about [tuition assistance](#).

## CAREER INFORMATION



### IN-DEMAND FIELD

Jobs are projected to grow at a rate of 5% over the next 5 years.



### STRONG EARNING POTENTIAL

Median Salary **\$85,000 – \$110,000**



### VARIETY OF JOBS TO CHOOSE FROM

- Biosecurity Specialist/ Technician
- Biosafety Professional
- Agricultural Specialist/ Technician
- Facility Security Officer



### SKILLS FOR SUCCESS

- Critical Thinking
- Science
- Active Listening
- Quality Control Analysis
- Reading Comprehension



### REALITY CHECK. WHAT YOU WILL DO ON THE JOB.

- Assessing biological risks/threats that may be present and developing various biosecurity analysis reports and plans to identify, assess, and mitigate biosecurity risks/threats
- Working with key stakeholders to create and implement solutions to address gaps in biosecurity
- Facilitating awareness and training for laboratorians and other biosecurity or emergency preparedness specialists in all biosecurity methods, protocols, and emergency procedures
- Researching and keeping up to date on any biosecurity risks or threats that may be present in various settings



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## STUDY PLAN

Our certificate programs are designed to be flexible, allowing you the option to take just a few courses or earn the complete certificate. If choosing to complete the certificate, we recommend you get the most out of your experience by following the suggested completion path below.

Required Courses (12 units)		
QUARTER		UNITS
1	Introduction to Biosecurity BIOL X461	3
2	Elements of Biosecurity BIOL X462	3
	Agricultural Biosecurity and Food Defense BIOL X463	3
3	Evolving Technology and the Regulatory Landscape BIOL X464	3

## ARE YOU READY FOR YOUR NEXT STEP?

Schedule an appointment with a [An Advisor](#) to get started. [extension.ucr.edu/advisors](http://extension.ucr.edu/advisors)

