BIODEFENSE, PHD

Banner Code: PP-PHD-BIOD

Academic Advising

560 Van Metre Hall Mason Square Campus

336 Aquia Building Fairfax Campus

Website: schar.gmu.edu

This program is designed to prepare students to serve as scholars and professionals in the fields of biodefense and biosecurity. The program integrates knowledge of natural and man-made biological threats with the skills to develop and analyze policies and strategies for enhancing biosecurity. Other areas of biodefense, including nonproliferation, intelligence and threat assessment, and medical and public health preparedness are integral parts of the program.

Admissions & Policies

Admissions

See Graduate Admissions (http://catalog.gmu.edu/admissions/graduate-policies/) for general information on graduate admission to George Mason University. See the Schar School of Policy and Government Admissions website (http://schar.gmu.edu/admissions/doctorate-admissions/) for application requirements and deadlines. Students are considered for admission for the Fall term only.

Policies

For policies governing all graduate degrees, see AP.6.10 Requirements for Doctoral Degrees (http://catalog.gmu.edu/policies/academic/graduate-policies/#ap-6-10).

Transfer of Credit

Previously earned and relevant graduate credits may be eligible for transfer into this program; details can be found in the Credit by Exam or Transfer section (http://catalog.gmu.edu/policies/academic/graduate-policies/#ap-6-5-2) of this catalog.

Requirements

Degree Requirements

Total credits: 72

Students are strongly encouraged to take the core courses as early as possible because they provide the foundation for the rest of the program. The courses which students plan to take should be approved in a program of study designed by the student and their advisor during the student's first semester. Students may take up to 12 credits of courses outside of the Biodefense Program with prior written approval of their advisor. Consult with the graduate program director or coordinator for a list of BIOD electives and approved non-BIOD electives that may be used to fulfill some of the requirements below.

A complete description of the program policies, procedures, and requirements is in the PhD student and faculty handbook (https://schar.gmu.edu/current-students/phd-student-services/phd-handbookforms/), which is published annually.

Core Courses

Code	Title	Credits
BIOD 604	Emerging Infectious Diseases I: Bacteria and Toxins	3
BIOD 605	Emerging Infectious Diseases II: Viral Agents	3
BIOD 609	Biodefense Strategy	3
BIOD 620	Global Health Security Policy	3
BIOD 710	Health Security Preparedness	3
GOVT 500	The Scientific Method and Research Design	3
GOVT 540	International Relations	3
Select one of the	3	
POGO 611	Advanced Data Analysis for Policy and Government	
POGO 646	Policy and Program Evaluation	
An alternative r	research course approved by the program	
Total Credits		24

Field of Specialization

Select one field of specialization and complete the requirements therein.

International Security

Code	Title	Credits
GOVT 744	Foundations of Security Studies	3
GOVT 745	International Security	3
	Select six credits of electives (courses may be chosen from the electives list below)	
Total Credits		12

Terrorism and Homeland Security

Code	Title	Credits
BIOD 722	Examining Terrorist Groups	3
BIOD 725	Terrorism and Weapons of Mass Destruction	3
Select six credits of electives (courses may be chosen from the electives list below)		6
Total Credits		12

Technology and Weapons of Mass Destruction

Code	Title	Credits
BIOD 706	Nuclear, Biological, and Chemical Weapons Policy and Security	3
BIOD 760	National Security Technology and Policy	3
Select six credits of electives (courses may be chosen from the electives list below)		6
Total Credits		12

Additional Specialization Courses

Code	Title		Credits
Of the cours	es listed for the pred	ceding fields of specialization,	6
students mu	st select two course	es from those that are not in	
their chosen	field.		
Total Credits			6

Code Title Credits Select 9 to 18 credits of additional electives in consultation with advisor. 9-18 Courses may be offered by Schar or by other units. Schar courses include the following: Schart courses include the following: BIOD 610 Advanced Topics in Global Health Security BIOD 621 Ethics and International Security BIOD 622 Negotiating in the International Arena BIOD 705 Intelligence: Theory and Practice BIOD 706 Nuclear, Biological, and Chemical Weapons Policy and Security BIOD 709 Nonproliferation and Arms Control BIOD 722 Examining Terrorist Groups BIOD 723 Legal Dimensions of Homeland Security BIOD 724 Ferrorism and Weapons of Mass Destruction BIOD 725 Terrorism and Weapons of Mass Destruction BIOD 731 Biosurveillance BIOD 742 Biotechnology and Society BIOD 751 Biosurveillance BIOD 762 Biotechnology and Society BIOD 763 Medical Countermeasures for Responding to CBRN Threats and Pandemics BIOD 793 Directed Studies in Biodefense BIOD 809 Directed Studies in Biod	Electives		
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	PUAD 635		
	PUAD 701		

PUAD 727	Seminar in Risk Assessment and Decision Making	
PUAD 731	Homeland/Transportation Security Administration	
PUAD 738	Issues in International Security	
PHIL 642	Biomedical Ethics	
Total Credits		9-18

Qualifying Exam

The purpose of the qualifying exam is to determine if the student is ready to engage in dissertation research. Doctoral students are eligible to take the exam at the conclusion of coursework, provided an approved Degree Plan is on file with Schar. The exam must be passed before the student takes dissertation proposal (BIOD 998 Doctoral Dissertation Proposal).

Advancement to Candidacy

Advancement to candidacy for the doctoral degree occurs when a student has met the coursework requirements, passed the comprehensive qualifying examination, presented and successfully defended a dissertation proposal, and has an approved dissertation committee.

Dissertation Research

Once enrolled in BIOD 998, students in this degree program must maintain continuous registration in BIOD 998 or BIOD 999 each semester (excluding summers) until the dissertation is submitted to and accepted by the University Libraries. Once enrolled in BIOD 999, students must follow the university's continuous registration policy as specified in AP.6.10.6 Dissertation Registration (http://catalog.gmu.edu/policies/academic/graduate-policies/#ap-6-10-6). Students who defend in the summer must be registered for at least 1 credit of BIOD 999.

Students may apply to this degree a minimum of 3 and a maximum of 6 credits of BIOD 998 and a minimum of 6 and a maximum of 18 credits of BIOD 999. They apply a minimum of 12 and a maximum of 24 dissertation credits (BIOD 998 and BIOD 999 combined) to the degree. Because of the continuous registration policy, students may be required to register for additional credits of these courses.

Before registering in BIOD 999, students must offer a successful public defense of the dissertation proposal. Students must present the results of the dissertation research to their dissertation committee in a seminar and defend their dissertation to the university community. Successful completion of a dissertation is contingent on approval of the dissertation committee and the dean.

Code	Title	Credits
Research credits		12-24
BIOD 998	Doctoral Dissertation Proposal (minimum of 3 credits)	
BIOD 999	Doctoral Dissertation (minimum of 6 credits)	
Total Credits		12-24