Advanced Technology and National Security, Undergraduate Certificate

Visit the National Security Studies page (https://www.uvu.edu/nss/) for more information on the program and access to advising.

Program Description

The Advanced Technology and National Security, Undergraduate Certificate equips students with the analytical and strategic skills needed to navigate the evolving landscape of emerging technologies and their implications for global security. Through focused coursework in national security, advanced technologies, and related policy areas, students evaluate the intersection of security and innovation, analyze emerging threats, and develop strategic policy recommendations. Graduates are prepared to produce actionable insights and policy products relevant to careers in national security, defense, and technology-driven industries.

Program Requirements

Code	Title	Credit Hours
Total Credit Hours		**18**
Discipline Core		**6 Credits**
NSS 2010	Introduction to National Security	3
NSS 3750	Advanced Technologies in National Security	3
Discipline Electives		**6 Credits**
Complete 6 credits from the following:		6
NSS 4150	Cybersecurity Policy (undefined)	
NSS 4200	Intelligent Systems and Data Policy (undefined)	
NSS 4260	Hypersonic and Advanced Aeronautics (undefined)	
NSS 4320	Robotics and Autonomous Systems (undefined)	
NSS 4650	Emerging Tech Policy Lab (undefined)	
Electives		**6 Credits**
Complete 6 credits of any of the NSS classes from the discipline electives or from the following list:		6
NSS 4750R	Current Topics in National Security (undefined)	
TECH 3000	Introduction to Technology Management (undefined)	
TECH 4050G	Global Ethical and Professional Issues in Technology (undefined)	
CYBR 2700	Information Security Fundamentals (undefined)	
CYBR 2800	Computer Forensic Fundamentals (undefined)	
AERO 1100	Department of the Air Force--DAF Professionalism A (undefined)	
AERO 1110	Department of the Air Force--DAF Professionalism B (undefined)	
AERO 2100	Team and Leadership Fundamentals A (undefined)	
AERO 2110	Team and Leadership Fundamentals B (undefined)	
AERO 4100	National Security - Leadership Responsibilities and Commissioning Preparation A (undefined)	
MILS 1200	Introduction to Leadership Excellence I (undefined)	
MILS 1210	Introduction to Leadership Excellence II (undefined)	
MILS 4200	The Profession of Arms I (3)	
MILS 4210	The Profession of Arms II (3)	
MGMT 1400	Introduction to Data Analytics (3)	
MGMT 4350	Business Intelligence and Data Visualization (3)	
GIS 1600	Principles of Geographical Information Science (3)	
GIS 2640	Fundamentals of Geographic Information Systems (3)	
BTEC 1010	Fundamentals of Biotechnology I Career Survey (3)	
INFO 1200	Computer Programming I for IS IT (3)	
INFO 2200	Computer Programming II for IS IT (3)	

INFO 3130	Introduction to Applied Data Analytics (3)
CS 1030	Foundations of Computer Science (3)
CS 1400	Fundamentals of Programming (3)
CS 2900	Data Privacy and Security (undefined)
CS 4470	Artificial Intelligence (undefined)

Any other course approved by the program director or advisor

Graduation Requirements

1. Complete all required credits.

2. 25% of credits must be taken at UVU.

3. Receive a C- or better in all courses with an overall grade point average of 2.5 of above.

Graduation Plan

This graduation plan is a sample plan and is intended to be a guide. Your specific plan may differ based on your Math and English placement and/or transfer credits applied. You are encouraged to meet with an advisor and set up an individualized graduation plan in Wolverine Track (http://www.uvu.edu/wolverinetrack/).

First Year

Semester 1		Credit Hours
NSS 2010	Introduction to National Security	3
Discipline Elective		6
	Credit Hours	**9**
Semester 2		
NSS 3750	Advanced Technologies in National Security	3
Discipline Elective		6
	Credit Hours	**9**
	Total Credit Hours	**18**

Program Learning Outcomes

1. Evaluate the intersection of security and advanced technology.
2. Analyze the security issues, threats, challenges, and risks presented by advanced technologies.
3. Apply strategic policy recommendations surrounding security and advanced technology issues.
4. Survey the interactions among actors in the context of advanced technology and security.

Compliance officers

- Total Positions403,900
- Field Growth5.4%
- Median Salary$75,670
- Average Openings34.4

Political scientists

- Total Positions6,200
- Field Growth2.6%
- Median Salary$132,350
- Average Openings0.5