Advanced Technology and National Security, Certificate of Proficiency

The Certificate of Proficiency in Advanced Technology and National Security will provide students with a strategic understanding of the security challenges and opportunities presented by advanced technologies. Students will become familiarized with the strategic and policy implications of the most cutting-edge technologies and gain the capability to produce and present policy documents and products used in public and private sector professions.

Program Requirements

Code	Title	Credit Hours
Total Credit Hours		**18**
Discipline Core		**6 Credits**
NSS 2010	Introduction to National Security WE	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 475R	Current Topics in National Security (undefined)	
TECH 3000	Introduction to Technology Management (undefined)	
TECH 405G	Global Ethical and Professional Issues in Technology GI (undefined)	
CYBR 2700	Information Security Fundamentals (undefined)	
CYBR 2800	Computer Forensic Fundamentals (undefined)	
CYBR 4850	Digital Forensics Investigations (undefined)	
AERO 1100	The Air Force Today (undefined)	
AERO 1110	Aerospace Defense General Purpose and Support Forces (undefined)	
AERO 2100	The Developmental Growth of Air Power A (undefined)	
AERO 2110	The Development and Growth of Air Power B (undefined)	
AERO 4100	National Security Affairs 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 BB (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 3100	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 WE	3
NSS 3750	Advanced Technologies in National Security	3
Discipline Elective		3
	Credit Hours	**9**
Semester 2		
Discipline Elective		3
Discipline Elective		3
Discipline Elective		3
	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.