Approved University Registrar

College of Liberal Arts and Human Sciences (CLAHS) Department of Political Science

Integrated Security Minor (ISDA): General Security, Securing Cyber, and Human Security Tracks

Checksheet for students entering under UG catalog 2022-2023

Name:	Email:
Major:	
PLEASE NOTE:	
 There are 3 tracks/options to choose from in the integ A. General Security Track, B. Securing Cyber Track, ar 	rated security pathways minor. Tracks are denoted below by d C. Human Security Track.
All students in all 3 options must take the introductoryThis minor is open to all students regardless of major.	
 No more that 50% of the graded course credit hours re counted by a student also enrolled in his/her major. 	equired for the Minor in Integrated Security may be double-
 Students must have an in-minor and overall GPA of 2.0) to graduate.
The Integrated Security Minor requires a minimum of 18-courses are indicated and marked with an *][Courses wit	-21 hours depending on minor track listed below: [Pathways h prerequisites are marked with #]
I. Introductory Course (3 credit hours)	
*BIT/CS/PSCI 2164: Foundations of Contemporary Security Envi Computational Thinking (5f), Reasoning in the Social Sciences; Ir	·
II. Capstone Course (3 credit hours)	
*BIT/CS/PSCI 4164: Future of Security (Discourse, Ethics)#	(3)
III. Track/Option Courses (12-15 credit hours) Select from A. General Security Track, B. Securing	Cyber Track, or C. Human Security Track
A. General Security Track – One Course from Each	Block (12 credit hours)
Block 1	.0.6
 CS 1014: Introduction to Computational Thinking (Qua CS 1054: Introduction to Programming in Java 	nt & Comp)
CS 1064: Introduction to Programming in Python	
 CS 1114: Introduction to Software Design 	
*SOC 2104: Quantitative Approaches to Community Re *SGT (NICT/COC, 2004) to the planting to Post in Social Coc	
 *STS/HIST/SOC: 2604 Introduction to Data in Social Co *HD 3024: Community Analytics (Advanced/Applied Q 	,
*BIT 4604: Data Governance, Privacy, and Ethics (Hum	
Block 2 (Human Security)	
 *HIST 1354: Conflict and Security in Modern East Asia 	Humanities / Social Science)
*PSVP 2044: Peace and Violence (Social Science)	
 PSCI 3104: Security Studies: Theories and Concepts PSCI 3114: Global Security# 	
PSCI 3114: Global Security# PSCI 3134: Global Conflict and War	
PSCI 3184: Human Security#	
HIST 3714: War and Medicine	
BIT 4604: Data Governance, Privacy, and Ethics#	(3)

Block 3 (Cybersecurity)	University Regist
ECE 2174: Principles of Computer Systems	Offiversity Regist
 *HIST 2716: History of Technology (Social Science) 	
 PSCI 3044: The Politics of Internet Governance # 	
PSCI 3054: The Dark Web and Threat Analysis	
 PSCI 4074: The Politics of Cybersecurity # 	
 * FIN 4014: Cyberlaw and Policy (Social Science) 	
BIT 4614: Information Security #	
 ECE 4560: Computer and Network Security Fundamentals # 	
 *CRIM 4474: Cyber Criminology (Social Science) 	
CS 4264: Principles of Computer Security #	(3)
Block 4 (Environmental Security)	
AAEC 1264: Peace Economics (Social Science)	
 *AAEC 3324: Environment Sustain Development Econ (Soc Sci / Identity & Equity) 	
 *GEOS 1034: Earth's Natural Hazards (Natural Sciences) # 	
 *GEOG 2004: Water, Environment (Social Sciences) 	
GEOG 2034: Geography of Global Conflict	
 *GEOG 3104: Environmental Problems (Social Sciences) 	
PSCI 3344: Global Environmental Issues	
 *STS 2454: Science, Technology, and Environment (Humanities) 	(3)
B. Securing Cyber Track – One Course from Each Block (12 credit hours)	
Block 1 (Cybersecurity Infrastructure)	
 *CS 1014: Introduction to Computational Thinking (Quantitative and Computational 	
Thinking (5f))	
CS 1064: Introduction to Programming in Python	(3)
CS 1054: Introduction to Programming in Java	
CS 1114: Introduction to Software Design	
Block 2 (Cybersecurity and Society)	
 *CRIM 4474: Cyber Criminology (Social Science; Ethical Reasoning) 	
GEOG 2034: Geography of Global Conflict	
 *HIST 2716: History of Technology (Reasoning in the Social Sciences,) 	(3)
PSCI/IS 3054: The Dark Web and Threat Analysis	
 PSCI 4074: The Politics of Cybersecurity # 	
Block 3 (Cybersecurity Risk and Governance)	
 *FIN 4014: Cyberlaw and Policy (Reasoning in the Social Sciences OR Critical Thinking in 	
the Humanities; Ethical Reasoning)	
 *BIT 4604: Data Governance, Privacy, and Ethics (Humanities, Ethical Reasoning) # 	
BIT/ACIS 4554: Networks and Telecommunications in Business	(3)
BIT 4614: Information Security #	
ECE 4560: Computer and Network Security Fundamentals #	
BIT 4624: Cyber Security Analytics for Business #	
CS 4264: Principles of Computer Security #	
Block 4 (One additional course from any of the above blocks in the Securing Cyber Track)	(3)
C. Human Security Track – (9 Credit Hours from Block 1, 6 Credit hours from block	2)
Block 1 (Foundations of Human Security)	
 *GEOG/IS/PSCI 2054: Introduction to World Politics (Reasoning in the Social Sciences) 	(3)
 *PHIL 2304: Global Ethics (Critical Thinking in the Humanities, Ethics) 	(3)
IS/PSCI 3184: Human Security #	(3)
Block 2 (Exploring Human Security)	
AAEC 1264: Peace Economics (Social Science)	
PSVP 2044: Peace and Violence	(3)
GEOG 2034: Geography of Global Conflict	

SOC 3004: Social Inequality #

IS/PSCI 3104: Security Studies: Theories and Concepts

IS/PSCI 3114: Global Security

• IS/PSCI 3134: Global Conflict and War

IS/PSCI 3154: Topics in Global Public Policies

• IS/PSCI 3175: Global Development

PSCI/UAP 3344: Global Environmental Issues

• IS/PSCI 3634: Human Rights

HIST 3714: War and Medicine

• IS 4014: International Development

IS/PSCI 4024: Seminar: Diplomacy and Security

SOC 4444: Schools, Violence and Justice

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(3)

GENERAL SECURITY TRACK NOTES:

• One course in addition to the two required courses must be a designated a Pathways course that meets a *third* Pathways objective.

Example: If Foundations of Security is taken as a Pathways Computational Thinking course, and Security Solutions is taken as a Discourse Pathways course, then the student must choose his or her *third* Pathways course from the selected courses that meets a *third* Pathways objective, such as Reasoning in the Social Sciences, Critical Thinking in the Humanities, etc.

- In addition to the Future of Security course, 3 credit hours must be taken at the 3000/4000 level.
- # Some courses listed on this checksheet have prerequisites; please consult the University Course Catalog, or check with your advisor.
- No more than 50% of courses in the minor can be duplicated in the major.

SECURING CYBER TRACK NOTES:

• One course in addition to the two required courses must be a designated Pathways course that meets a third Pathways objective.

Example: If Foundations of Security is taken as a Pathways Computational Thinking course, and Security Solutions is taken as a Discourse Pathways course, then the student must choose his or her third Pathways course from the selected courses that meets a third Pathways objective such as Reasoning in the Social Sciences, Critical Thinking in the Humanities, etc.

- # Some courses listed on this checksheet have prerequisites, please consult the University Course Catalog, or check with your advisor.
- No more than 50% of courses can count towards the student's major.

HUMAN SECURITY TRACK NOTES:

- One elective must be taken at the 3000/4000 level.
- # Some courses listed on this checksheet have prerequisites; please consult the University Course Catalog, or check with your advisor.
- No more than 50% of the courses may be duplicated in the major.

Declaring a Minor and Advising:

- Declare the Integrated Security Pathways Minor by emailing abrantly@vt.edu
- Please see an advisor in Political Science during pre-registration in 531 Major Williams for questions and assistance.
- Once a minor is declared, a student cannot graduate until she or he has either satisfied the requirements for the minor or withdrawn from the minor by notifying the IS-DA academic advisors in 531 Major Williams Hall.