Master's Degree
M.S. in Information Security Engineering

This is intended as a guide for you to start planning your progress in the master's program. You and your student advisor will develop a more in-depth plan during your New Student Orientation meeting. In the meantime, you can compare this with the waiver evaluation included in your admission letter. Courses within a Block can be shifted in order, but all must be completed before moving onto the next Block.

BLOCK 1

Course #	Course Name	SANS Class	Course Assessments	Course Term	Credits	Tuition
ISE 5101	Enterprise Information Security	SEC 401	GSEC Exam	3 Months	3	$4,125
ISE 5201	Hacking Techniques & Incident Response	SEC 504	GCIH Exam	3 Months	3	$4,125
ISE 5601	IT Security Leadership Competencies	MGT 514	GSTRT Exam	3 Months	3	$4,125
				Total:	9	$12,375

BLOCK 2

Course #	Course Name	SANS Class	Course Assessments	Course Term	Credits	Tuition
ISE 6255	Defensible Security Architecture & Engineering	SEC 530	GDSA Exam	3 Months	3	$4,125
ISE 5300	Managing Human Risk	MGT 433	SSAP Exam, Security Awareness Plan	45 Days	1	$1,375
ISE 5401	Advanced Network Intrusion Detection & Analysis	SEC 503	GCIA Exam	3 Months	3	$4,125
ISE 5701	Situational Response Practicum	SEC 402, SEC 405	Written Report	45 Days	1	$1,375
ISE 6200	Core Comprehensive Exam	—	Core Comp Exam	1 Month	1	$1,375
				Total:	9	$12,375

BLOCK 3

Course #	Course Name	SANS Class	Course Assessments	Course Term	Credits	Tuition
ISE 5800	IT Security Project Management	MGT 525	GCPM Exam	3 Months	3	$4,125
ISE 6___	Elective	SANS Class	GIAC Exam	3 Months	3	$4,125
ISE 6___	Elective	SANS Class	GIAC Exam	3 Months	3	$4,125
ISE 6___	Elective	SANS Class	GIAC Exam	3 Months	3	$4,125
				Total:	12	$16,500

BLOCK 4

Course #	Course Name	SANS Class	Course Assessments	Course Term	Credits	Tuition
ISE 6300	NetWars Continuous Practicum	—	Core NetWars Continuous	2 Months	1	$1,375
ISE 5901	Adv. Technical Research & Communication Practicum	—	Proposal, Whitepaper; Presentation	5 Months	3	$4,125
ISE 6101	Security Project Practicum	SEC 403	Written Report, Presentation	30 Days	1	$1,375
ISE 6901	MSISE Capstone	—	GSE Entrance Exam (Lab not required)	3 Months	1	$1,375
				Total:	6	$8,250

This example plan is subject to change due to curriculum adjustments, student's coursework & potential tuition increases. **Degree Total: 36**   **$49,500**

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Master's degree students choose 3 electives from this list. Each elective course is 3 credit hours and has a course term of 3 months. Students may choose any 3 electives or may work with their advisor to select courses within one of five Focus Areas: Cyber Defense Operations, Incident Response, Industrial Control Systems, Penetration Testing, or Security Management.

Course #	Course Name	SANS Class	Course Assessments
ISE 6001	Implementing & Auditing the Critical Security Controls	SEC 566	GCCC
ISE 6215	Advanced Security Essentials	SEC 501	GCED
ISE 6230	Securing Windows with the Critical Security Controls	SEC 505	GCWN
ISE 6240	Continuous Monitoring & Security Operations	SEC 511	GMON
ISE 6245	SIEM with Tactical Analytics	SEC 555	GCDA
ISE 6250	Purple Team Tactics & Kill Chain Defenses	SEC 599	GDAT
ISE 6315	Web App Penetration Testing & Ethical Hacking	SEC 542	GWAPT
ISE 6320	Network Penetration Testing & Ethical Hacking	SEC 560	GPEN
ISE 6325	Mobile Device Security	SEC 575	GMOB
ISE 6330	Wireless Penetration Testing	SEC 617	GAWN
ISE 6350	Automating Information Security with Python	SEC 573	GPYC
ISE 6360	Advanced Penetration Testing	SEC 660	GXPN
ISE 6420	Computer Forensics Investigations – Windows	FOR 500	GCFE
ISE 6425	Adv. Computer Forensic Analysis & Incident Response	FOR 508	GCFA
ISE 6440	Adv. Network Forensics & Analysis	FOR 572	GNFA
ISE 6445	Cyber Threat Intelligence	FOR 578	GCTI
ISE 6450	Advanced Smartphone Forensics	FOR 585	GASF
ISE 6460	Malware Analysis & Reverse Engineering	FOR 610	GREM
ISE 6515	ICS/SCADA Security Essentials	ICS 410	GICSP
ISE 6520	ICS Active Defense & Incident Response	ICS 515	GRID
ISE 6525	Essentials for NERC Critical Infrastructure Protection	ICS 456	GCIP
ISE 6615	Defending Web Applications Security Essentials	SEC 522	GWEB
ISE 6650	Cloud Security and DevOps Automation	SEC 540	GCSA
ISE 6715	Auditing Networks, Perimeters & Systems	AUD 507	GSNA
ISE 6720	Law of Data Security & Investigations	LEG 523	GLEG