

This curriculum map is a guide to help you plan your studies in the 120-credit BACS program at Montgomery College (70 credits) and the SANS Technology Institute (50 credits). A student advisor at the SANS Technology Institute will help you chart your course of study each step of the way.

Montgomery College Suggested Course Sequence

First Semester (15 credits)		Credits
ENGL 101	Introduction to College Writing	3
MATF xxx	Mathematics foundation	3
NWIT 127	Microcomputer Essentials	3
NWIT 151	Introduction to Networking	3
BSSD xxx	Behavioral and social sciences distribution	3

Second Semester (16 credits)		Credits
ENGF 103	English foundation (Business Writing for SANS.edu requirement)	3
CMSC 135	Introduction to Scripting	3
CMSC 253	UNIX/LINUX System Administration	4
NWIT 173	Network Security	3
NWIT 252	Cisco Networking 2	3

Third Semester (16 credits)		Credits
PHIL 140	Introduction to the Study of Ethics	3
NWIT 245	Defending the Network	3
NWIT 263	Introduction to Digital Forensics	3
ARTD/HUMD xxx	Arts or humanities distribution	3
NSLD xxx	Natural sciences distribution with lab	4

Fourth Semester (13 credits)		Credits
NWIT 230	Intro to Cyber Ops	3
NWIT 246	Attacker Tools and Techniques	3
NWIT 247	Introduction to Incident Response	3
NWIT 275	Wireless Security	3
NWIT 291	Cybersecurity Capstone	1

CREDITS REQUIRED FOR ASSOCIATE DEGREE **60**

ADDITIONAL GENERAL EDUCATION CREDITS REQUIRED FOR BACS DEGREE **10**

TOTAL MONTGOMERY COLLEGE CREDITS 70



SANS.edu Suggested Course Sequence

Junior Year			Credits
8-week term	BACS 3201	Security Foundations	6
8-week term	BACS 3301	Introduction to Cybersecurity SEC 301 + GISF	4
	BACS 3402	Effective Cyber Writing and Speaking SEC 402 & SEC 403	3
8-week term	BACS 3401	Security Essentials SEC 401 + GSEC	6
8-week term	BACS 3504	Incident Handling and Hacker Exploits SEC 504 + GCIH	6

Senior Year			Credits
8-week term	BACS 3573	Automating Information Security with Python SEC 573 + GPYC	4
	ACS 4xxx	Upper Division Specialization Elective GIAC certification	3
8-week term	BACS 4503	Intrusion Detection In-Depth SEC 503 + GCIA	6
8-week term	ACS 4xxx	Upper Division Specialization Elective GIAC certification	3
8-week term	ACS 4xxx	Upper Division Specialization Elective GIAC certification	3
20-week term <i>alongside last two elective course terms</i>	BACS 4499	Internship	6

TOTAL SANS.EDU CREDITS 50

Upper Division Specialization Elective Options (choose 3)

Cyber Defense

- ACS 4487: Open-Source Intelligence (OSINT) Gathering and Analysis | SEC 487 + GOSI
- ACS 4501: Advanced Security Essentials | SEC 501 + GCED
- ACS 4505: Securing Windows and PowerShell Automation | SEC 505 + GCWN
- ACS 4511: Continuous Monitoring and Security Operations | SEC 511 + GMON

Penetration Testing

- ACS 4460: Enterprise and Cloud | Threat Vulnerability Assessment | SEC 460 + GEVA
- ACS 4542: Web App Penetration Testing and Ethical Hacking | SEC 542 + GWAPT
- ACS 4560: Network Penetration Testing and Ethical Hacking | SEC 560 + GPEN
- ACS 4575: Mobile Device Security and Ethical Hacking | SEC 575 + GMOB

Security Management

- ACS 4566: Implementing and Auditing the Critical Security Controls In-Depth | SEC 566 + GCCC

Digital Forensics and Incident Response

- ACS 4498: Battlefield Forensics & Data Acquisition | FOR 498 + GBFA
- ACS 4500: Windows Forensic Analysis | FOR 500 + GCFE
- ACS 4508: Advanced Incident Response, Threat Hunting, and Digital Forensics | FOR 508 + GCFA

Cloud Security

- ACS 4522: Defending Web Applications Security Essentials | SEC 522 + GWEB
- ACS 4540: Cloud Security and DevOps Automation | SEC 540 + GCSA

Industrial Control Systems Security

- ACS 4410: ICS/SCADA Security Essentials | ISC 410 + GICSP