UNIVERSITY OF CAPE TOWN

FUNDAMENTALS OF CYBERSECURITY

ONLINE SHORT COURSE

Want to learn about the Fundamentals of Cybersecurity with Africa’s leading University and online education experts GetSmarter?
ABOUT THIS COURSE

This online short course aims to provide you with a comprehensive understanding of the various elements of cybersecurity management at a decision-making level. The knowledge you gain can be used to enhance your managerial power through a familiarity of the IT and security functions; inform the implementation of relevant cybersecurity measures in your business or organisation; strengthen your abilities as the safekeeper of sensitive company data; or substantiate your interest in the field before you transition into it. Guided by an industry expert, you’ll learn about everything from threats, corporate governance, and software/hardware, to cybersecurity architecture, risk management, incident response, and industry ethics.

8 weeks, part-time

+27 (0)21 447 7565

R14,900 incl. VAT

REGISTER NOW

Requires approx.
7-10 hours per week, self-paced

VIEW COURSE DATES

MEET THE HEAD TUTOR

CHRIS SMYLY
Principal Security Specialist

Chris has a demonstrated history of working as a Principal Security Specialist in the oil and energy industry, and has worked as a Security Architect, Information Security Specialist and Senior Systems Engineer. He has previous experience as a Systems Engineer for ACS Europe (Dell Computers) and Forwardslash. Chris is skilled in the information and cybersecurity disciplines, architecture, TOGAF, ISO 27001, ITIL, and IT strategy. Chris has earned an MCSE in Systems Engineering and Networking, CCNA Cisco Networking certification and ISC2 Information Systems Security Professional certification. He previously completed the Management Development Programme (MDP) and the Senior Management Development Programme (SMDP), both from Stellenbosch University.
THIS COURSE IS FOR YOU IF

- You’re a manager or executive wanting to gain a broad understanding of cybersecurity at a decision-making level to assist you in identifying its role within your organisation
- You’re an IT professional wanting to expand your knowledge of cybersecurity in order to effectively manage your organisation’s information security
- You’re a senior manager wanting an understanding of potential cybersecurity threats and security measures you should take in your rapidly growing organisation
- You’re looking to make the transition into an information security or senior management role and want to equip yourself with the relevant niche skills needed to set yourself apart
- You want to formalise your set of highly relevant and industry-transferable cybersecurity skills by earning a certificate approved by a top-tier university

AFTER COMPLETING THIS COURSE YOU’LL BE CONFIDENT IN YOUR ABILITY TO:

- Evaluate cybersecurity threats and policies in terms of current legislation and regulations
- Ensure your business or organisation is taking the necessary protection measures
- Recommend software and hardware products within cybersecurity categories for a given environment or project
- Develop a cybersecurity compliance plan and incident response plan for your specific organisation
- Take steps towards creating a cybersecurity culture within an organisation

STILL UNSURE?
Take the short assessment quiz available on the course page to find out if this course is right for you.

TAKE THE QUIZ
WHAT WILL YOU LEARN ON THIS COURSE?

Find out more about the learning outcomes you’ll achieve as you progress through the 8 modules of this course:

**ORIENTATION MODULE**

WELCOME TO THE ONLINE CAMPUS
- Get to grips with your new online classroom
- Meet your Course Teaching Team and get to know your fellow classmates

**MODULE 1**

BASIC PRINCIPLES OF CYBERSECURITY MANAGEMENT
- Discuss the evolution and current state of cybersecurity
- Explain the importance of cybersecurity management within an organisation
- Identify the roles and processes in maintaining cybersecurity standards

**MODULE 2**

RISK MANAGEMENT
- Describe the cyberthreat actors that exist in an organisation and illustrate the different types of threats
- Deduce how an organisation can secure itself against cyber attacks
- Compare the methods for assessing the cybersecurity risk

**MODULE 3**

CORPORATE GOVERNANCE, POLICIES AND THE REGULATORY ENVIRONMENT
- Outline the National Cybersecurity Policy Framework (NCPF) as it is applicable to cybersecurity in South Africa
- Apply the important elements of the Electronic Communications and Transactions Act to a business legislative problem
- Use POPI as a guide to secure information in a business
- Investigate the role of corporate governance in cybersecurity management in South Africa

UCT FUNDAMENTALS OF CYBERSECURITY ONLINE SHORT COURSE
MODULE 4
CYBERSECURITY CULTURE
• Illustrate the impact of social engineering and human weakness on cybersecurity and compare their differences
• Justify the importance of building a cybersecurity culture
• Develop a proposal for applying a cybersecurity education, training and awareness initiative within an organisation

MODULE 5:
CYBERSECURITY ARCHITECTURE
• Summarise the types of IT security principles and methods
• Interpret the concept of secure network design and analyse the threats to a secure network in an organisation
• Deduce a secure software management lifecycle in an organisation and recommend a forensic readiness plan

MODULE 6:
CYBERSECURITY SOFTWARE AND HARDWARE
• Investigate data protection strategies, including SOC, SIEM and cryptography
• Categorise the types of hardware and software used to protect an organisation’s data
• Evaluate a software and hardware product for a specific organisation’s cybersecurity plan

MODULE 7:
COMPLIANCE MANAGEMENT
• Choose a cybersecurity model that you would use for compliance and management in an organisation
• Differentiate between the NIST cybersecurity model and the 20 critical controls model
• Correlate the components of a cybersecurity compliance strategy of an organisation and recommend a compliance management technique

MODULE 8:
INCIDENT MANAGEMENT
• Relate the elements of incident response in terms of cybersecurity and identify the incident response process in an organisation
• Distinguish between planning, developing and maintaining an incident response capacity for an organisation
• Recommend statutory reporting requirements to support cybersecurity incident management in an organisation
• Develop an incident response plan for an organisation

VISHA GOVENDER
Past GetSmarter Student
I best enjoyed being able to learn at my own pace. The interactivity of the discussion forums, and reading other students’ thoughts and experiences, really helped my learning.

READ MY STORY
UCT and GetSmarter have partnered to bring you a learning experience that uses technology to replicate, and even enhance, the very best elements of the face-to-face learning experience, so that you can learn anything you need to know, to get where you want to be, online and part-time. Here’s how it works:

1. **YOUR ONLINE CAMPUS**

After you’ve registered and paid for your spot on the course, you will gain access to a cutting-edge online learning platform designed to provide you with a world-class university educational experience - a platform we call the Online Campus. The Online Campus is your virtual classroom for the duration of the course - accessible to you from the comfort and convenience of your own home. All you need is access to the internet, and we’ll take care of the rest.

*Over 30% of GetSmarter students have their course fees paid by their employer.*

Have you considered asking your boss to fund your studies?

2. **SELF-PACED WEEKLY MODULES**

Every course is broken down into manageable, weekly modules, designed to accelerate your learning process through diverse learning activities:

- Read your course notes online
- Collaborate with your classmates on your projects and via the discussion forum
- Enjoy interactive video lectures, and attend online live group tutorial
- Investigate current, real-world case studies
- Apply what you learn in your weekly assignments
- Use your knowledge to guide your career growth

The GetSmarter experience: What it’s like to learn online

**TAKE A TOUR OF YOUR ONLINE CLASSROOM**
A COMMUNITY OF LIKE-MINDED PROFESSIONALS

When you sign up to join the class, you’ll be granted access to a network of vibrant, like-minded professionals who you’ll collaborate with for the duration of your learning journey. Week by week, you’ll move through the course content together, learning from and engaging with each other via the online discussion forum on your Online Campus. What’s more, after you complete your course, you’ll get to keep in touch by joining our GetSmarter Alumni Community. Find out more about past student experiences in this video.

1. YOUR HEAD TUTOR
An experienced subject matter expert, who’s there to guide your learning journey by answering all of your course-related questions. You’ll also receive rich, individualised feedback on your assignments and project work.

2. YOUR COURSE COACH
A learning partner who specialises in monitoring your progress, helping you manage your time, and ensuring you’re equipped with practical tools to overcome any personal or professional obstacles you might be faced with. Your success is their success, which is why they’re there to help you every step of the way.

3. YOUR TECH SUPPORT TEAM
Even if you’re really intimidated by the idea of studying online - we’ve got you covered. The handy Technical Support sidebar you’ll see when you log into your Online Campus is your direct line to a team of professionals trained to solve absolutely any tech-related challenges you might experience.

4. PERSONAL SUPPORT EVERY STEP OF THE WAY
You’ve got three exceptionally talented individuals on your side, all of whom are 100% dedicated to making it easy for you to maintain your learning momentum for the full duration of your online education experience.

5. RECOGNITION FOR YOUR NEW SKILL
You’ll leave the course with workplace-ready skills recognised by Africa’s leading University. If you’ve met all the requirements to pass the course, your UCT-approved certificate will be couriered to you and can be proudly displayed wherever you choose.
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THIS SOUNDS PERFECT FOR MY CAREER

I’M READY TO REGISTER

NOT QUITE WHAT YOU’RE LOOKING FOR?

Other students found the following courses relevant to their career goals:

- UCT INFORMATION SYSTEMS MANAGEMENT
- UCT IT MANAGEMENT
- UCT BUSINESS SYSTEMS ANALYSIS

VIEW ENTIRE SHORT COURSE PORTFOLIO

CONTACT US

Call: +27 (0)21 447 7565 | Email: admissions@getsmarter.com

Website: www.getsmarter.com