

Course Title	<b>SECURITY FUNDAMENTALS</b>
Course Code	<b>CSN 211</b>
Course Purpose and Objectives	The course of Security Fundamentals is aligned with the course Cybersecurity Essentials 1.0 of CISCO Networking Academy. The particular course covers foundation knowledge and essential skills in all security domains in the cyber world - information security, systems security, network security, mobile security, physical security, ethics and laws, related technologies, defense and mitigation techniques use in protecting businesses.
Learning Outcomes	<ol style="list-style-type: none"> <li>1. Describe the characteristics of criminals and professionals in the cybersecurity realm.</li> <li>2. Describe the principles of confidentiality, integrity, and availability as they relate to data states and</li> <li>3. cybersecurity countermeasures.</li> <li>4. Describe the tactics, techniques and procedures used by cyber criminals.</li> <li>5. Describe how technologies, products and procedures are used to protect confidentiality.</li> <li>6. Describe how technologies, products and procedures are used to ensure integrity.</li> <li>7. Describe how technologies, products, and procedures provide high availability.</li> <li>8. Explain how cybersecurity professionals use technologies, processes and procedures to defend all</li> <li>9. components of the network.</li> <li>10. Explain the purpose of laws related to cybersecurity.</li> </ol>
Course Content	<ul style="list-style-type: none"> <li>• Chapter 1. Cybersecurity: A World of Wizardry, Criminals, and Heroes</li> <li>• Chapter 2. The Cybersecurity Sorcery Cube</li> <li>• Chapter 3. Cybersecurity Threats, Vulnerabilities and Attacks</li> <li>• Chapter 4. The Art of Protecting Secrets</li> <li>• Chapter 5. The Art of Ensuring Integrity</li> <li>• Chapter 6. The Realm of Five Nines</li> <li>• Chapter 7. Fortifying the Kingdom</li> <li>• Chapter 8. Joining the Order of Cyber Hero's</li> </ul>