

BSIS Program Review Part 1: Overview of Courses

Introduction

Reflection on the studies that directed my university life and set me for future information security careers is imperative because I am on the point of graduating and receiving my Bachelor of Science in Information Science (BSIS). Throughout the curriculum, I used to attend many higher-level seminar courses that introduced me to wider exposure in terms of information systems, cybersecurity, and user involvement alongside technical competencies. I chose information security as the area of emphasis of the BSIS program because it is where I am going to be pursuing my future career, in network defense and cybersecurity. Below is a summary of the most impactful courses that I completed, and how they connect to my future plans.

CIS 4202 – Ethical Hacking

- This training provided the participants with a practical experience of Blue Teaming, or defensive cyber. This training exposed me to more about network analysis and defense by detecting vulnerabilities and applying defensive controls. The practical nature of this course enabled me to enhance my network defense, asset management, and threat assessment skills, all of which are needed to pursue a career in cyber. Ethical hacking proved to be helpful as it simulated real-world situations and piqued my interest in penetration testing and secure system design.

CIS 4361 – Management of Health Information Systems Security

- CIS 4361 opened my mind to the art of security management by considering not only the administrative but also the technical dimensions of information systems. Topics covered under the course included incident response planning, asset management, human resource policies, and cryptography. It emphasized incorporating security features into an organization's daily activities. This course was extremely pertinent to my professional goals since it put strong emphasis on critical thinking when applying information security policy in difficult, real-world environments like healthcare.

HIM 4658 – Management of Health Information Systems

- This course, with individuals training, project planning, collaboration, and system assessment as its highlights, dealt with the management and development of health information systems (HIS). I work in settings where healthcare and information security come together, and this course taught me how difficult it is to

manage data within such environments. I acquired skills in system deployment, compliance with regulations, and competent team management—skills that can be applied to any information security position within a healthcare organization.

LIS 3352 – Interaction Design

- I first came to understand the principles of Human-Computer Interaction (HCI) and the importance of making systems that are both functional and easy to use through the use of Interaction Design. Creating secure systems requires knowing how consumers interact with technology. This course required me to enter the user's shoes when creating systems, especially when implementing security features like encryption or authentication. It stressed the position of user behavior in cybersecurity effectiveness and broadened my knowledge on usability in security solutions.

LIS 4934 - BSIS Senior Capstone

- The BSIS Senior Capstone course allowed me to look back at everything that I had learned throughout the program. From the exercises on research and synthesis, I studied the connection between information science and technology, and how these two professions work together in an effort to come up with solutions to real-world problems. As a befitting culmination of my BSIS course, this course pushed me to prove that I could evaluate, design, and implement information problem solutions. The course challenged my academic achievement and equipped me with the professional skills to be a professional rather than a student in the field of information.

Conclusion

I have a good basis for a career in computer security due to the classes I've taken under the BSIS program, specifically those classes of study under my Information Security concentration.

Each class assisted in furthering my technical and theoretical knowledge of information system architecture, management, and security. I have obtained the skills and knowledge required for success in several professional environments, ranging from management and evaluation of intricate health information systems to employments of healthy defensive practices for ethical hacking.

Apart from boosting my studies, these courses supplemented my interest for safeguarding electronic environments and delivering positive contributions within the information security community.