## COURSE OUTLINE: CYB203 - IT SECURITY: E&L ISS

Prepared: IT Studies

Approved: Corey Meunier, Chair, Technology and Skilled Trades

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| **Course Code: Title** | CYB203: IT SECURITY: ETHICAL AND LEGAL ISSUES |
| **Program Number: Name** | 5911: CYBERSECURITY |
| **Department:** | PPP triOS |
| **Academic Year:** | 2022-2023 |
| **Course Description:** | In the course, students will learn about the legal and regulatory environment in Canada as it relates to IT security. The course will touch on regulations in multiple provinces but will focus primarily on the regulations in the province of Ontario. Ethical considerations will be viewed through a Canadian bias, as topics such as privacy, consent to use information,and ethical hacking,are discussed. |
| **Total Credits:** | 4 |
| **Hours/Week:** | 4 |
| **Total Hours:** | 56 |
| **Prerequisites:** | There are no pre-requisites for this course. |
| **Corequisites:** | There are no co-requisites for this course. |
| **Vocational Learning Outcomes (VLO's) addressed in this course:**<br><br>**Please refer to program web page for a complete listing of program outcomes where applicable.** | **5911 - CYBERSECURITY**<br>VLO 1  Develop and implement cyber security solutions to protect network systems and data.<br>VLO 2  Plan and implement security assessment methodologies, vulnerability management strategies and2.incident response procedures to generate and communicate security analysis reports and recommendations to the proper level of the organization.<br>VLO 3  Recommend processes and procedures for maintenance and deployment of cyber security solutions.<br>VLO 5  Comply with existing industry policies, regulations, and ethics for information systems and information technology security solutions to ensure industry expectations and standards are met or exceeded.<br>VLO 6  Analyze security risks to organizations and business processes to mitigate risk in compliance with industry standards.<br>VLO 10  Maintain ongoing personal and professional development to improve work performance in the field of information technology. |
| **Essential Employability Skills (EES) addressed in this course:** | EES 1  Communicate clearly, concisely and correctly in the written, spoken, and visual form that fulfills the purpose and meets the needs of the audience.<br>EES 4  Apply a systematic approach to solve problems.<br>EES 5  Use a variety of thinking skills to anticipate and solve problems.<br>EES 6  Locate, select, organize, and document information using appropriate technology and information systems. |

| | EES 7    Analyze, evaluate, and apply relevant information from a variety of sources. |
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| **Course Evaluation:** | Passing Grade: 50%, D<br><br>A minimum program GPA of 2.0 or higher where program specific standards exist is required for graduation. |
| **Books and Required Resources:** | Ethics in Information Technology, 6e by George Reynolds<br>Publisher: Cengage Learning Edition: 6<br>ISBN: 978-1-337-40587-4 |

**Course Outcomes and Learning Objectives:**

| Course Outcome 1 | Learning Objectives for Course Outcome 1 |
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| Analyze ethical considerations in the Canadian IT context. | 1.1 Review ethics as it pertains to IT in the context of corporate social responsibility, decision-making, and ongoing improvements.<br>1.2 Exemplify best practices when it comes to IT worker professionalism and ethical use of IT resources.<br>1.3 Explain the ethical considerations IT organizations must consider when it comes to outsourcing, whistle-blowing, and green computing. |
| **Course Outcome 2** | **Learning Objectives for Course Outcome 2** |
| Assess the importance of understanding privacy laws and regulations and the ethical issues that arise in business applications of social media. | 2.1 Explain the basic concepts of privacy protection.<br>2.2 Interpret privacy laws in the context of specific scenarios.<br>2.3 Illustrate key privacy and anonymity issues.<br>2.4 Examine social networking issues and how they relate to privacy laws and regulations. |
| **Course Outcome 3** | **Learning Objectives for Course Outcome 3** |
| Review the regulatory and ethical implications of consent in various scenarios and how it differs in different regions. | 3.1 Classify the various privacy acts and how they factor into cybersecurity best practices.<br>3.2 Explore scenarios where hackers penetrate systems without consent of their owners.<br>3.3 Examine situations where intellectual property is misappropriated and discuss ethical resolutions. |
| **Course Outcome 4** | **Learning Objectives for Course Outcome 4** |
| Critique the context for ethical hacking and review the ethical limitations. | 4.1 Define ethical hacking.<br>4.2 Explain the role of ethical hacking in cybersecurity.<br>4.3 Assess the context and value of ethical hacking in testing system threats, attacks, and vulnerabilities. |
| **Course Outcome 5** | **Learning Objectives for Course Outcome 5** |
| Evaluate the legal and regulatory environment in IT, as it applies to Canada and Ontario. | 5.1 Outline the various laws and regulations-specific to Canada and Ontario-as they pertain to the protection of data, personal information, and privacy. |

**Evaluation Process and Grading System:**

| Evaluation Type | Evaluation Weight |
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|  | Assignments and Quizzes | 30% |
|  | Final Evaluation & Case Studies | 60% |
|  | Professional Performance | 10% |

| **Date:** | July 6, 2022 |
| **Addendum:** | Please refer to the course outline addendum on the Learning Management System for further information. |