[Course Title] Practicing Cybersecurity: Attacks and Counter-measures

[Course Code] COMP 4632

[No. of Credits] 3

[Any pre-/co-requisites] COMP 2012 OR COMP 2012H; Corequisite(s): COMP 3511

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Course Description

This course equips students with cybersecurity knowledge and current IT practices on security risk management. Through hands-on laboratory sessions, students will understand existing IT security issues, learn how to assess IT security risks, and conduct experiments on ethical hacking. They will practice system attack and defense strategies using security tools, so as to gain practical experience to become a cybersecurity professional. The course covers current security trends, industrial practices on IT security, design requirements for secure web and mobile applications, security assessment, risk analysis and risk management. Knowledge in web programming and database administration is not essential but a plus.

Assessments:

[List specific assessed tasks, exams, quizzes, their weightage]

Assessment Task	Contribution to Overall Course grade (%)
In class course work	30%
Attendance	10%
Assignments	30%
Final examination	30%

Required Texts and Materials

[List required textbooks, readings, and any other materials]

N/A

[Optional] Additional Resources

[List any additional resources, such as online platforms, library resources, etc.]

N/A