



**BAKER COLLEGE**  
**STUDENT LEARNING OUTCOMES**

**ITS4010 Malware and Reverse Engineering**  
**Semester Credit Hours 3**

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**Student Learning Outcomes and Enabling Objectives**

1. Develop a good understanding of Malware Analysis.
2. Identify the different types of Malware Analysis methods.
3. Gain a broad exposure to real world applications of Malware Analysis.
4. Set up a relatively inexpensive lab for Malware Analysis activities.
5. Utilize a standard methodology for detecting, analyzing, reverse engineering, and eradicating malware.
6. Use a Malware Analysis-based approach to resolve real world problems.
7. Recognize common malware characteristics.
8. Bypass some of the advanced malware techniques, such as packing, obfuscation and anti-analysis of armored malware breeds

**Big Ideas and Essential Questions**

**Big Ideas**

- The student will learn Assembly Language which is essential for diagnosing malware.
- The student will use a variety of operating systems including UNIX, Windows x86 and 64-bit environments.
- The student will learn industry standard diagnostic tools for dissecting malware and determining how it is used and most importantly, how to stop the spread.

**Essential Questions**

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These SLOs are approved for experiential credit.

**Effective: Spring 2021**