



TRANSPARENCY AT EXCELSIOR

Bachelor of Science in Cybersecurity

Program / Student Learning Outcomes: What Will I Learn?

1. Describe defensive network architecture that use multiple layers of protection.
2. Analyze technologies and processes that monitor, maintain, and protect the data of an institution.
3. Evaluate and apply industry tools to respond to cyber incidents.
4. Create and disseminate cybersecurity reports to stakeholders.
5. Conduct risk and vulnerability assessments of existing and proposed security systems.
6. Develop and implement organizational cybersecurity policies and procedures.
7. Demonstrate the ability to understand professional, ethical, and social responsibility, including the effect of culture, diversity, and interpersonal relations.
8. Demonstrate proficiency in communicating technical information in formal reports, documentation, and oral presentations to users and information technology professionals.
9. Demonstrate a commitment to professional development and to continue to engage in lifelong learning.

Assessment Methodology

Metrics, Assessments, and Levels of Achievement

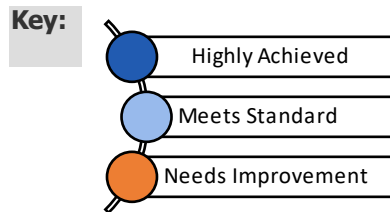
The table below provides a brief overview of the measures selected to assess program outcomes for the program. Assessment of program outcomes includes both direct and indirect measures. Benchmarks have been established to differentiate between three levels of program outcome achievement (highly achieved, meets standard, and needs improvement). These three levels of achievement are color coded and used in the section below to indicate the level of achievement for each measure, for each learning outcome.

| Metric Type | Direct Measures | | Indirect Measures | |
|-------------|---|---|---|---|
| | Capstone Course | Course-Embedded | Exit Alumni Survey | One-Year Post-graduation Alumni Survey* |
| Assessments | Capstone Course | Course-Embedded | Exit Alumni Survey | One-Year Post-graduation Alumni Survey* |
| Metrics | The percentage of students who receive a grade of | The percentage of the students who receive a grade of | The mean of the graduates' perceptions of their | The mean of the graduates' perceptions of their |

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| | | | | |
|-------------------|--|--|--|--|
| | B or better on the Capstone Rubric for its designated program outcome. | B or better on selected course embedded assessments. | achievement of the related program outcomes (on a 6-pt Likert-type scale). | achievement of the related program outcomes (on a 6-pt Likert-type scale). |
| Highly Achieved | ≥ 85% | | Mean ≥ 5% | |
| Meets Standard | 70 - 84% | | 4.0 - 4.99 | |
| Needs Improvement | < 70% | | Mean < 4 | |

Note: The results of the one-year post-graduation survey are used as a reference to provide a longitudinal perspective on students' attainment of program (student) outcomes.



Program (Student) Outcome Achievement Results

May 2021 Term through March 2022 Term

| Program Outcome | | Direct Measure(s) | Indirect Measures | |
|-----------------|--|-------------------|-------------------|-----------------|
| 1 | Describe defensive network architecture that use multiple layers of protection. | CYS 496 M7A1 | Exit Survey | One-Year Survey |
| | | 100% | * | * |
| | | n = 6 | | |
| 2 | Analyze technologies and processes that monitor, maintain, and protect the data of an institution. | CYS 496 M3A1 | Exit Survey | One-Year Survey |
| | | 100% | * | * |
| | | n = 6 | | |
| 3 | Evaluate and apply industry tools to respond to cyber incidents. | CYS 496 M4A1 | Exit Survey | One-Year Survey |
| | | 100% | * | * |
| | | n = 6 | | |
| 4 | Create and disseminate cybersecurity reports to stakeholders. | CYS 496 M2A1 | Exit Survey | One-Year Survey |
| | | 83% | * | * |
| | | n = 6 | | |

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| Program Outcome | | Direct Measure(s) | Indirect Measures | |
|-----------------|--|-------------------------|-------------------|-----------------|
| 5 | Conduct risk and vulnerability assessments of existing and proposed security systems. | CYS 496 M1A1 | Exit Survey | One-Year Survey |
| | | ** | * | * |
| 6 | Develop and implement organizational cybersecurity policies and procedures. | CYS 496 M5A1 | Exit Survey | One-Year Survey |
| | | 100% | * | * |
| | | n = 6 | | |
| 7 | Demonstrate the ability to understand professional, ethical, and social responsibility, including the effect of culture, diversity, and interpersonal relations. | CYS 496 M6A1 | Exit Survey | One-Year Survey |
| | | 100% | * | * |
| | | n = 6 | | |
| 8 | Demonstrate proficiency in communicating technical information in formal reports, documentation, and oral presentations to users and information technology professionals. | CYS 496 M8A1 M8A3 | Exit Survey | One-Year Survey |
| | | 100% | * | * |
| | | 100% | | |
| | | n = 5 | | |
| | | n = 5 | | |
| 9 | Demonstrate a commitment to professional development and to continue to engage in lifelong learning. | CYS 496 M8A2 | Exit Survey | One-Year Survey |
| | | 100% | * | * |
| | | n = 6 | | |

**An insufficient number of responses (i.e., less than 5) were received so no data is reported.*

***The rubric was not attached to the assignment, so no data was collected. The error has been fixed and data is expected next year.*