

B - Course Revision Form V. 7.2022 : Entry # 3582**DEAN Decision**

Approved

Today's Date

09/15/2025

EPC Decision

Approved

Today's Date

10/17/2025

GEC Decision

Approved

APIRC Decision

Approved

Today's Date

11/14/2025

Begin Form**Today's Date**

09/14/2025

Your Name

Kedrian James

Your Email:kjames4@highpoint.edu**Are you a Department Chair?**

No

Department Chair Name

Michael Oudshroon

Email address of your Department Chairmoudshoo@highpoint.edu**By checking below, I certify that my department chair has seen and approved the course revisions that are in this proposal**

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Yes

Please select the appropriate school overseeing this proposal:

Engineering

When should this proposal take effect?

Fall 2026

Are you submitting multiple courses for revision from the same department?

No, just one

Please list all of the courses that you are submitting revisions for:

Course Prefix	Course Number	Course Title
CSC	3820	Penetration Testing

What would you like to revise?

- Learning Outcomes

Are you also revising any of the following for this course?

- Change course description

Gen Ed & Academic Program Information

Is this a revision to meet new Gen Ed requirements?

Yes

Which area(s) of Gen Ed does your proposal seek for approval?

- Experiential Learning [EXP]

Is this course part of an academic program?

- This course does not currently fulfill academic program requirements

Does this course, as revised, include any community engagement?

No

Is this course part of GoGlobal?

No

Does this course count towards a major or a minor?

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Yes

Please list the course(s) and whether they are required or electives for the major/minor.

Course Prefix/Number	Name of Major and/or Minor?	Required or Elective?
CSC	3820	Penetration Testing

Is this course cross listed?

No

Choose the department designator for your course from the list below.

CSC

Current course number

3820

Current course title

Penetration Testing

Curriculum Review Information**Please list all revised student learning outcomes, including Gen Ed outcomes, for this course in the box below.**

1. Describe and explain the common phases of a penetration test.
2. Employ appropriate tools and methods in conducting penetration tests within realistic, controlled environments.
3. Compare and contrast penetration test techniques from standard frameworks.
4. Categorize various pathways to discover and exploit vulnerabilities across different operating environments.
5. Demonstrate proficiency in summarizing penetration testing results through professional written reports tailored for both technical and non-technical audiences.
6. Apply adversarial thinking to analyze security postures and develop effective penetration testing strategies.
7. Demonstrate knowledge through applied experience or projects.

Please list any revisions to units or content areas that will be required for all sections of this course in the box below.

The final assessment has been changed from a final exam to a final project to reflect the Gen. Ed experimental learning outcome. Please see below:

Final Project: The culminating experience for this course is a comprehensive penetration testing project that simulates a real-world engagement. Students will scope, plan, and conduct a penetration test on a controlled environment, applying tools, methods, and adversarial thinking to identify vulnerabilities. The project concludes with a professional report and presentation, demonstrating knowledge through applied experience while bridging technical findings with business impact.

The assessment structure has also been updated, please see below:

Labs/Assignments/Quizzes: 20%
 2-3 Major Tests: 30%
 Class Project 20%
 Final Project: 30%
 Total: 100%

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If you have Gen Ed learning outcomes, please address the kinds of assessments you may use for each area that you are proposing the course be designated (i.e., Arts, Humanities, Diversity, etc.)

The Gen. Ed. outcome for the course is : Demonstrate knowledge through applied experience or projects. The assessment to fulfill this requirement is the final project. Please see below:

Final Project: The culminating experience for this course is a comprehensive penetration testing project that simulates a real-world engagement. Students will scope, plan, and conduct a penetration test on a controlled environment, applying tools, methods, and adversarial thinking to identify vulnerabilities. The project concludes with a professional report and presentation, demonstrating knowledge through applied experience while bridging technical findings with business impact.

Is there any additional information that you would like to provide for this proposal?

Yes, the description has been changed; please see below:

Course Description: This course explores the foundational concepts, methods, and techniques in preparing and conducting penetration tests on computing systems, networks, and applications. Throughout the course, students engage in hands-on experiences as they unravel complex methods for exploiting common vulnerabilities in a variety of operating environments. As part of the experiential learning component, students will apply their knowledge through a comprehensive penetration testing project that simulates a real-world engagement. Working individually or in teams, students will scope, plan, execute, and document a penetration test on a controlled environment or designated system. Most importantly, students learn how to construct a final professional report outlining discovered vulnerabilities, with suggested recommendations to remediate and/or mitigate those vulnerabilities. They also practice communicating their findings so that non-technical personnel understand the business ramifications. By completing this applied project, students will demonstrate knowledge through applied experience in penetration testing methodology, professional practice, and ethical responsibility.

Sample Syllabus

- [CSC 3820 01 2024FA0 James.pdf](#)