

University of Idaho

**Idaho (Washington-Idaho-
Montana-Utah, WIMU)
Veterinary Medical Education
Program**

STRATEGIC PLAN

2021 - 2025

Idaho (Washington-Idaho-Montana-Utah, WIMU) Veterinary Medical Education Program Strategic Plan 2021-2025

MISSION STATEMENT

Transfer science-based medical information and technology concerning animal well-being, zoonotic diseases, food safety, and related environmental issues – through education, research, public service, and outreach – to veterinary students, veterinarians, animal owners, and the public, thereby effecting positive change in the livelihood of the people of Idaho and the region.

VISION STATEMENT

To improve the health and productivity of Idaho's food-producing livestock through training of senior veterinary students in the WIMU program focused on food animal medicine in support of the importance of animal agriculture in Idaho.

VALUES STATEMENT

The WIMU program values:

- excellence in creative instruction,
- open communication and innovation,
- individual and institutional accountability,
- integrity and ethical conduct,
- accomplishment through teamwork and partnership,
- responsiveness and flexibility,
- individual and institutional health and happiness.

GOAL 1

Transform: Increase our educational impact

Objective A: Provide greater access to educational opportunities to meet the evolving needs of society.

Performance Measures:

- I.* Offer elective rotations in food animal medicine for experiential learning opportunities.
Benchmark: Attain enrollment of 40 senior veterinary students into these optional rotations¹.

Objective B: Foster educational excellence via curricular innovation and evolution.

Performance Measures:

- I.* Student placement in the Northwest Bovine Veterinary Experience Program (NW-BVEP).
Benchmark: Offer spots for 12 students annually².

Objective C: Create an inclusive learning environment that encourages students to take an active role in their student experience.

Performance Measures:

- I.* Number/percentage of Idaho resident graduates licensed to practice veterinary medicine in Idaho.

¹ Based on internal standards as a measure of program quality

² Based on internal standards as a measure of program quality

Benchmark: Over each 4-year period, at least 7 Idaho resident graduates (65%) become licensed to practice veterinary medicine in Idaho annually³.

GOAL 2

Innovate: Scholarly and creative products of the highest quality and scope, resulting in significant positive impact for the region and the world.

Objective A: Build a culture of collaboration that increases scholarly and creative productivity through interdisciplinary, regional, national and global partnerships.

Performance Measures:

- I. Number of grant awards received per year and amount of grant funding received per year by WIMU faculty.

Benchmark: Receive 4 grant awards for \$200,000 in funding annually by 2024⁴.

Key External Factors

Veterinary education through general food animal, small ruminant, beef and dairy blocks offered by University of Idaho faculty are undergoing a transition to improve student access to animals. The change in teaching is in direct consultation with the Washington State University College of Veterinary Medicine. Hiring of faculty to support this transition is underway.

Evaluation Process

Veterinary Medical Education received national accreditation after the review in the fall 2017; the contribution of the University of Idaho to veterinary education was a part of that review. In addition, the Department of Animal and Veterinary Science at the University of Idaho and the Food Animal faculty at WSU CVM meet annually to examine curricular changes, performance of food animal block rotations, and overall performance by the WIMU veterinary medical education program related to the measures in this evaluation. The groups also work jointly to find new faculty for the program when openings occur.

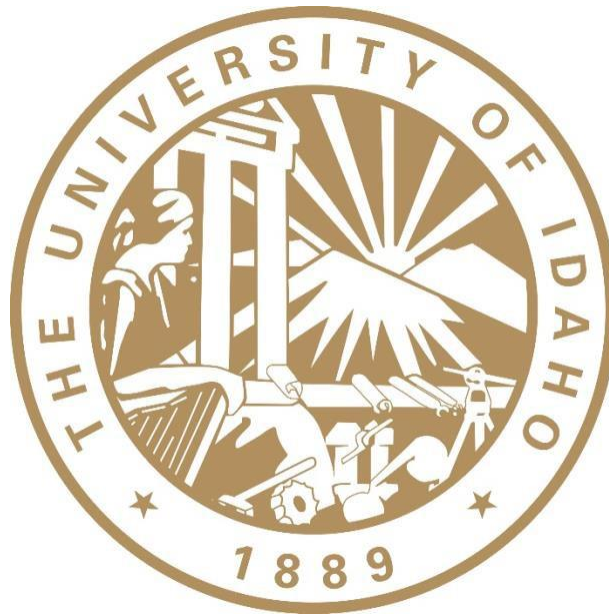
Red Tape Reduction Act

The State Board of Education, through the Office of the State Board of Education, runs all administrative rules governing the postsecondary institutions and special and health programs. The State Board of Education strategic plan outlines the reduction efforts for the public education system.

³ Based on national standards for return rates of similar programs

⁴ Based on internal standards as a measure of faculty quality

Information Security Overview and Critical Security Controls Assessment Report



Date: March 5, 2020

Status: FINAL

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TLP: GREEN

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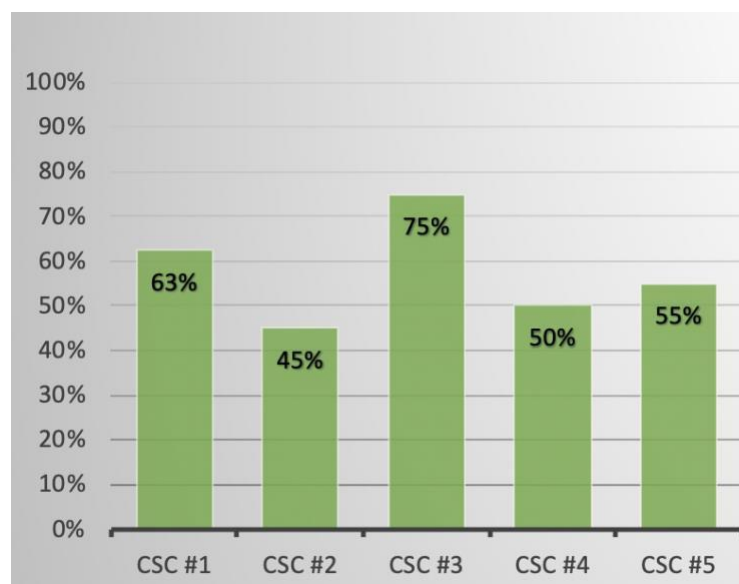
Executive Summary

In response to the Idaho Governor's Executive Order 2017-02 issued January 16, 2017, UI ITS personnel initiated an assessment of the Center for Internet Security (CIS) Critical Security Controls (CSC) 1-5. This assessment was scored using the AuditScripts assessment tool recommended in 2018 by the State Office of the CIO. We continue to regularly re-assess our posture against the CSC using this tool.

Version 7.0 of the Critical Security Controls was released in early 2018. ITS last assessed our status in March 2020 based upon progress implementing controls. That assessment shows an increase from 0.39 to 0.56 (out of 1.0) for overall implementation of the first 5 controls. Between April 2018 and March 2019, our score increased from 0.48 to 0.50, and again to 0.56 by March 2020.

Our Maturity Rating for all 20 controls was improved from 2.00 to 2.45 (out of 5.0) between March 2019 and March 2020.

CSC Version 7 – March 2020



Overall completion for each control combines scoring for policy, implementation, automation and reporting. A 100% score could be achieved by approving the written policy, implementing and automating a control for all systems, and reporting it to the executive level. For some specific controls, 100% implementation will not be desirable or achievable on a university network. Prioritization, scope, and target percentage of specific controls are regularly assessed and prioritized.

In 2019, several improvements to controls and mitigations were planned as a result of annual security risk assessment. These risks were prioritized according to the IT Security Plan and utilizing the NIST Cybersecurity Framework (CSF). These mitigations include, but were not limited to:

1. Funding was requested and approved through the University Budget and Finance Committee (UBFC) to enhance email filtering technologies. This was implemented in 2019. **CSF: PROTECT**

2. Funding was requested and approved through the UBFC to find and mitigate sensitive Personally Identifiable Information on university laptops and desktops (data leakage protection, or DLP). *This project was put on hold indefinitely due to budget reductions.* CSF: DETECT
3. Funding requested through the UBFC to enhance multiple aspects of CSC 1-5, including vulnerability scanning, application whitelisting, security orchestration automation and response, and minimizing administrator privileges. *This was not funded after multiple UBFC requests, but enhanced vulnerability scanning is currently being implemented for high risk areas, using internal ITS funding.* CSF: PROTECT CSF: DETECT
4. Funding requested through the UBFC to implement Network Intrusion Prevention technology, including capability to detect and block malicious activity as a core and fundamental capability. *This has not yet been funded.* CSF: PROTECT CSF: DETECT
5. Funding was requested through the UBFC to implement a system to improve our IT Risk Assessment process and ability to cross-reference our various compliance needs across the institution. *This has not yet been approved or funded.* CSF: IDENTIFY

Risks identified against the updated CSC version 7 baseline will again be prioritized in the 2020 IT Security Risk Assessment and mitigations, where feasible or funded, will be addressed within the FY21 IT Security Plan. This will continue to move us towards our target profile under the NIST Cybersecurity Framework.

Critical Security Controls

Using the AuditScripts tool, the following pages show the overall risk for each control. This assumes that any control not fully implemented has been implicitly, if not explicitly, accepted as a risk. Detailed answers on each control are not provided, but are on file in the ITS Information Security Office.

CSC #1: Inventory and Control of Hardware Assets

Total Implementation of CSC #1



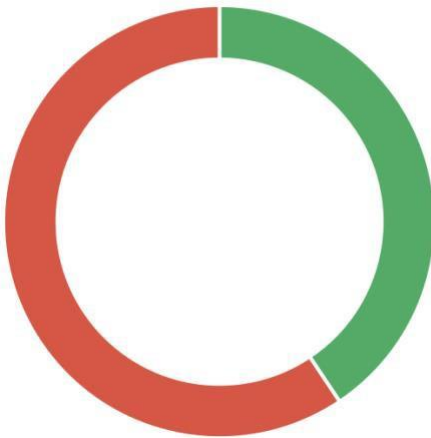
Risk Addressed:	55%
Risk Accepted:	45%

ID	Critical Security Control Detail
1.1	Utilize an active discovery tool to identify devices connected to the organization's network and update the hardware asset inventory.
1.2	Utilize a passive discovery tool to identify devices connected to the organization's network and automatically update the organization's hardware asset inventory.
1.3	Use Dynamic Host Configuration Protocol (DHCP) logging on all DHCP servers or IP address management tools to update the organization's hardware asset inventory.
1.4	Maintain an accurate and up-to-date inventory of all technology assets with the potential to store or process information. This inventory shall include all hardware assets, whether connected to the organization's network or not.
1.5	Ensure that the hardware asset inventory records the network address, hardware address, machine name, data asset owner, and department for each asset and whether the hardware asset has been approved to connect to the network.
1.6	Ensure that unauthorized assets are either removed from the network, quarantined or the inventory is updated in a timely manner.

- 1.7 Utilize port level access control, following 802.1x standards, to control which devices can authenticate to the network. The authentication system shall be tied into the hardware asset inventory data to ensure only authorized devices can connect to the network.
- 1.8 Use client certificates to authenticate hardware assets connecting to the organization's trusted network.

CSC #2: Inventory and Control of Software Assets

Total Implementation of CSC #2



ID	Critical Security Control Detail
2.1	Maintain an up-to-date list of all authorized software that is required in the enterprise for any business purpose on any business system.
2.2	Ensure that only software applications or operating systems currently supported by the software's vendor are added to the organization's authorized software inventory. Unsupported software should be tagged as unsupported in the inventory system.
2.3	Utilize software inventory tools throughout the organization to automate the documentation of all software on business systems.
2.4	The software inventory system should track the name, version, publisher, and install date for all software, including operating systems authorized by the organization.

- 2.5 The software inventory system should be tied into the hardware asset inventory so all devices and associated software are tracked from a single location.
- 2.6 Ensure that unauthorized software is either removed or the inventory is updated in a timely manner.
- 2.7 Utilize application whitelisting technology on all assets to ensure that only authorized software executes and all unauthorized software is blocked from executing on assets.
- 2.8 The organization's application whitelisting software must ensure that only authorized software libraries (such as *.dll, *.ocx, *.so, etc) are allowed to load into a system process.
- 2.9 The organization's application whitelisting software must ensure that only authorized, digitally signed scripts (such as *.ps1, *.py, macros, etc) are allowed to run on a system.
- 2.10 Physically or logically segregated systems should be used to isolate and run software that is required for business operations but incur higher risk for the organization.

CSC #3: Continuous Vulnerability Management

Total Implementation of CSC #3



Risk Addressed:	62%
Risk Accepted:	38%

ID	Critical Security Control Detail
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- 3.1** Utilize an up-to-date SCAP-compliant vulnerability scanning tool to automatically scan all systems on the network on a weekly or more frequent basis to identify all potential vulnerabilities on the organization's systems.
- 3.2** Perform authenticated vulnerability scanning with agents running locally on each system or with remote scanners that are configured with elevated rights on the system being tested.
- 3.3** Use a dedicated account for authenticated vulnerability scans, which should not be used for any other administrative activities and should be tied to specific machines at specific IP addresses.
- 3.4** Deploy automated software update tools in order to ensure that the operating systems are running the most recent security updates provided by the software vendor.
- 3.5** Deploy automated software update tools in order to ensure that third-party software on all systems is running the most recent security updates provided by the software vendor.
- 3.6** Regularly compare the results from back-to-back vulnerability scans to verify that vulnerabilities have been remediated in a timely manner.
- 3.7** Utilize a risk-rating process to prioritize the remediation of discovered vulnerabilities.

CSC #4: Controlled Use of Administrative Privileges

Total Implementation of CSC #4



ID	Critical Security Control Detail
4.1	Use automated tools to inventory all administrative accounts, including domain and local accounts, to ensure that only authorized individuals have elevated privileges.
4.2	Before deploying any new asset, change all default passwords to have values consistent with administrative level accounts.
4.3	Ensure that all users with administrative account access use a dedicated or secondary account for elevated activities. This account should only be used for administrative activities and not internet browsing, email, or similar activities.
4.4	Where multi-factor authentication is not supported (such as local administrator, root, or service accounts), accounts will use passwords that are unique to that system.
4.5	Use multi-factor authentication and encrypted channels for all administrative account access.
4.6	Ensure administrators use a dedicated machine for all administrative tasks or tasks requiring administrative access. This machine will be segmented from the organization's primary network and not be allowed Internet access. This machine will not be used for reading e-mail, composing documents, or browsing the Internet.
4.7	Limit access to scripting tools (such as Microsoft PowerShell and Python) to only administrative or development users with the need to access those capabilities.
4.8	Configure systems to issue a log entry and alert when an account is added to or removed from any group assigned administrative privileges.

- 4.9 Configure systems to issue a log entry and alert on unsuccessful logins to an administrative account.

CSC #5: Secure Configuration for Hardware and Software

Total Implementation of CSC #5



ID	Critical Security Control Detail
5.1	Maintain documented, standard security configuration standards for all authorized operating systems and software.
5.2	Maintain secure images or templates for all systems in the enterprise based on the organization's approved configuration standards. Any new system deployment or existing system that becomes compromised should be imaged using one of those images or templates.
5.3	Store the master images and templates on securely configured servers, validated with integrity monitoring tools, to ensure that only authorized changes to the images are possible.
5.4	Deploy system configuration management tools that will automatically enforce and redeploy configuration settings to systems at regularly scheduled intervals.

- 5.5 Utilize a Security Content Automation Protocol (SCAP) compliant configuration monitoring system to verify all security configuration elements, catalog approved exceptions, and alert when unauthorized changes occur.

Appendix A: References

Tracking of key references useful for this report.

Executive Order 2017-01	Findings of the Idaho Cybersecurity Taskforce	https://adminrules.idaho.gov/bulletin/2017/02.pdf#page=20
Critical Security Controls	Version 7	https://www.cisecurity.org/controls/
Audit Scripts	Free Assessment Resources	http://www.auditscripts.com/free-resources/critical-security-controls/
Policies	U of I IT Policies	https://www.uidaho.edu/governance/policy/policies/apm/30
Standards	IT Standards	https://www.uidaho.edu/its/standards
Privacy	U of I Privacy Statement	https://www.uidaho.edu/privacy
IR Plan	Technology Security Incident Response Plan v1.4	On file