Information Confidentiality/Security

Summary/Purpose: This policy articulates an enterprise-wide commitment to information security and sets standards for how confidential information maintained by the University of Mississippi (UM) is to be protected. The purpose of this policy is to ensure that UM employees at all levels, as well as contractors, understand their roles and responsibilities in reducing institutional risk as related to information security. Access to sensitive information is subject to policies, guidelines, and procedures that are set by UM, the Mississippi Institutions of Higher Learning (IHL), and the Mississippi Department of Information Technology Services (MS-DITS), as well as federal and state laws. Adequately securing customer information is not only the law but also good business sense. Poorly managed customer data opens doors to identity theft and provides access to sensitive information that could result in loss to customers.

Background

The Gramm-Leach-Bliley Act (GLBA) enacted Nov. 19, 1999, not only reforms the financial services industry but also calls for the safeguarding of customer financial information and describes the need for administrative, technical, and physical safeguards for such information. Because higher education institutions participate in financial activities such as making Federal Perkins Loans, the Federal Trade Commission has ruled that the safeguarding of consumer information specified by the Act also applies to colleges and universities. To comply with federal requirements to safeguard financial and other confidential information, UM must adhere to general standards and develop, put into effect, and maintain a comprehensive, written policy that contains administrative, technical, and physical safeguards for maintaining the confidentiality of non-public customer information. Although the UM’s primary customers are students, in this context, a customer is defined to be a student, employee, or consumer who has a relationship under which UM provides a financial product or service.

Confidential Information Collected and Stored

As an educational institution, UM collects, retains, and uses non-public financial and confidential information about individual customers, as allowed by law, to provide services. Non-public financial/confidential information is collected from sources such as:

- Applications for admission and other forms
- Financial transactions (checks, credit cards, and electronic funds transfers)
- Protected health information (PHI), which is legally protected by the Federal Health Insurance Portability Accountability Act (HIPAA)
- Transactions with UM affiliates
- Consumer reporting agencies
- State, federal, and other governmental agencies
- Personal information (social security numbers, birth date, grades, and so on)
In addition, UM collects, retains and uses non-public sensitive and confidential data and software to conduct research. UM is required to prevent the intentional and unintentional export of research information in compliance with United States export control laws and regulations. Export controls are United States federal government laws and regulations that restrict the release of items, information and software to restricted foreign countries, persons and entities (including universities). Researchers who work with export-controlled information are subject to additional security requirements, e.g., the physical location where data is stored. For more information, contact the Office of Research and Sponsored Programs (ORSP).

UM entities may be involved with handling other federally regulated data that requires additional safeguarding or dissemination controls, including Controlled Unclassified Information (CUI). The National Institute of Standards and Technology (NIST) Special Publication 800-171 (NIST SP 800-171) outlines recommended requirements for non-federal information systems that deal with CUI. UM researchers and other internal entities involved with CUI must understand the scope and impact of the Federal Information Security Modernization Act (FISMA) and ensure that the applicable NIST security framework can be implemented consistent with law, regulations, and government-wide policies. For more information, see the NIST SP 800-171 publication and the National Archives and Records Administration (NARA) CUI Registry.

UM uses the definition of “information security” provided by SANS:\(^1\):

> The processes and methodologies which are designed and implemented to protect print, electronic, or any other form of confidential, private and sensitive information or data from unauthorized access, use, misuse, disclosure, destruction, modification, or disruption.

The security standards defined here apply to all types of sensitive and confidential information whether stored physically on the UM campus or hosted elsewhere.

**General Standards for Safeguarding Customer Information**

Overall safeguarding objectives are as follows:

- Ensure the security and confidentiality of customer information in offices and data storage areas.
- Identify and protect against anticipated threats to the security or integrity of confidential customer information.
- Prevent the unauthorized access to, or use of, confidential customer information.

To meet these objectives, UM department heads who oversee activities that involve access to or the storage of non-public customer information are required to put in place information security programs that include the following components:

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\(^1\) See https://www.sans.org/information-security/.
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- Designate an employee to develop and coordinate a departmental information security program that establishes the administrative, technical, or physical safeguards used to access, collect, distribute, process, protect, store, use, send, dispose of, or otherwise handle, customer information.
- Identify reasonable, foreseeable internal and external risks to the security, confidentiality, and integrity of customer information that could result in the unauthorized disclosure, misuse, change, destruction, or compromise of such information, and assess the sufficiency of safeguards in place to control these risks. This includes listing all assets and their vulnerabilities.
- Establish risk assessment programs for the following areas:
  - Employee training and management
  - Information systems, including network and software design, also information processing, storage, transmission, and disposal
  - Detection, prevention, and response to attacks, intrusions, or systems failures
- Select vendor partners and service providers that can maintain proper safeguards for customer information. Contractually require service providers to put into effect and maintain such safeguards.
- Periodically evaluate and adjust the departmental information security program based on the results of testing and monitoring.

The Office of Information Technology (IT) and the IT Helpdesk are available to respond to specific security questions and to assist with training. The IT Security Coordinator is available to help establish and evaluate information security programs.

**Detailed Standards for Safeguarding Customer Information**

1. **Sharing Information with Affiliates**

To provide services, UM may disclose non-public financial/confidential information about a customer with business affiliates and other third parties. UM does not, and will not, disclose non-public financial/confidential information about customers, or former customers, to anyone, except as permitted by law.

2. **Employee Access to Confidential Information**

Employee access to customer information is restricted to those who have a legitimate business reason for getting such information and are educated about confidentiality and customer privacy. See the [Privacy in the Electronic Environment Policy](#) for full details.

3. **Accountability**

Department heads are ultimately responsible for ensuring that information technology services deployed by that department meet the security requirements in this policy.
4. Purpose for Storing Non-public Financial/Confidential Information

Departments may not collect or store non-public financial/confidential information without having a legitimate purpose. Departments may collect only the information needed to perform a specific task. For example, a department may not collect a driver’s license number without having a written policy addressing the specific purpose and use of this information. The Office of Internal Audit is available to help departments identify confidential information and document reasons for its collection. See the Records Retention Policy for additional details.

5. Use, Disclosure, and Retention

UM will secure and manage private, non-public customer information according to all applicable state and federal laws about its use, disclosure, and retention. Customer information may only be used or disclosed for the purpose for which it was collected, unless the customer consents to its use for another purpose, or when the data is requested as permitted by law. Customer information may only be retained for the time noted in the Records Retention Policy. If the information is to be used for another purpose, consent must be obtained from the customer before use. When getting first permission or revised consent, the customer will be informed how long the information will be retained and how it will be destroyed.

6. Safeguarding

- Paper data such as copies of checks must be kept in locked rooms and physically secured file cabinets.
- Calls or other requests for customer information must be routed to a designated individual who has been trained about its use, disclosure, and retention.
- Attempts to gain fraudulent or unauthorized access to customer information must be reported to the Internal Auditing Office for evaluation.

7. Disposal of Confidential Information

Paper records containing confidential information must be confetti shredded. Contact the Facilities Management Department for information about shredding of paper records. Computer equipment and electronic storage media (CDs, DVDs, hard disks, tapes, and so on) must be physically destroyed or reformatted / securely erased with IT oversight to prevent recovery of data.

8. Customer Access to Confidential Data

On request, customers will be informed of the existence, use, and disclosure of their information and will be given access to it with proper identification. Customers may verify the accuracy and completeness of their information, and may request that it be amended. Any changes to customer data should be logged either through automated mechanisms or through manual processes. Each department/unit is responsible for
getting and presenting information when requested by a customer.

9. Customer Complaints and Suggestions

Students/customers may direct questions about the privacy principles or practices outlined above to department heads or their designees. Each department/unit is responsible for dealing with customer complaints and suggestions. If a customer is not satisfied with the resolution provided by the department/unit, he/she should be referred to department’s next level of supervision.

10. Monitoring and Testing of Security

Each department is responsible for actively testing and monitoring its security practices and periodically evaluating and adjusting its information security program based on the results of testing and monitoring. In addition, all servers and storage devices that contain sensitive information must be registered so they can be periodically scanned for vulnerabilities. To register a server or workstation, login to myOleMiss and select UM System Registry under “Technology”.

11. Contractors

In the normal course of business, UM selects and contracts with external service providers. When choosing a service provider that will have access to customer information, the evaluation process will include the provider’s ability to safeguard customer information.

Contracts with service providers will include the following provisions:

- Explicit acknowledgment that the contract allows the contractor access to confidential information
- A specific definition of the confidential information being provided
- A stipulation that the confidential information will be held in strict confidence and accessed only for the explicit business purpose outlined in the contract
- A guarantee from the contractor that it will ensure compliance with the protective conditions outlined in the contract
- A guarantee from the contractor that it will protect the confidential information it gets according to commercially acceptable standards and no less rigorously than it protects its own customers’ confidential information
- A provision allowing returning or destroying all confidential information obtained by the contractor, on finishing the contract
- A stipulation allowing injunctive relief, without posting bond, to prevent or remedy breach of the contract’s or contractor’s confidentiality obligations
- A stipulation that a violation of the contract’s protective conditions amounts to a material breach of contract and entitles the University to immediately end the contract without penalty
- A provision allowing auditing of the contractor’s compliance with the contract’s
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safeguard requirements
- A provision ensuring that the contract’s protective requirements will survive ending the agreement


Accounts
- Individual account usage is governed by the IT Appropriate Use Policy.
- Each user is responsible and liable for all processes started from his/her account; therefore, the user should secure his/her computer when leaving the office for any length of time.
- All accounts should be secured using a password.
- There should be no shared accounts.
- Unnecessary preconfigured or default accounts that have generic passwords should be removed.
- The password to default accounts should be changed before attaching the system to the network.
- Use non-privileged accounts or roles when accessing non-security functions.
- Prevent non-privileged users from executing privileged functions and audit the execution of such functions.
- Use session/screensaver lock to prevent viewing/access of data after a certain period. Session lock is recommended after 15 minutes of inactivity.
- Terminate (automatically) a user session after 30 minutes or less of inactivity.
- Limit unsuccessful logon attempts.

Auditing
- Review logs daily and question unusual traffic patterns.
- Keep logs secure.
- Backup logs externally for critical systems.

Authentication
- Passwords should be at least eight characters and changed every ninety days.
- Strong passwords are difficult to guess and contain alpha, numeric, and shift characters. Do not use words that can be found in the dictionary or identify anything of a personal nature (name, birthday, social security number, and so on).
- Do not write passwords in notebooks or on desk leafs, or store them online.
- Do not share passwords with anyone.
- Passwords should be resistant to computer programs that check previously used passwords or easily compromised passwords.
- Passwords should never be stored or entered in clear text form.

Backups
- University departments should have backup practices in alignment with their
business continuity management plans. As a general matter, this means regular, periodic automated backup of any business-critical data that is stored exclusively on local machines. The precise period of backup can vary with the business needs of the unit, but must be frequent enough to enable the department to continue meeting its critical objectives despite loss (due to physical or logical failure, damage, or theft of the storage device) of the primary copy of the data. For guidance on evaluating information systems and operations to determine contingency planning requirements and priorities contact the office of Information Technology.

- Store backup media offsite at an appropriate interval.
- Storing business-critical data on University-approved cloud storage platforms can significantly reduce the need to perform automated backups of local machines. Data stored in cloud services is protected, by the cloud vendor, from many common causes of data loss. The Office of Information Technology strongly encourages the use of approved University cloud storage providers for this reason. Other cloud storage providers should not be used to store University data without a contract that is fully vetted for compliance with University policies. For more information, see Appendix A.
- Test the restore process.

**Firewalls**

- A personal desktop firewall must be installed on any computer system that either has access to or has confidential data stored.
- A hardware firewall is also recommended in any instances where there are two or more computers with confidential data.

**Information Security**

- Institutional data transferred to personal computers, mobile devices, or shadow systems is the responsibility of the end user, who must ensure that the data is securely maintained and properly destroyed.
- The University provides Secure Document Exchange via portal for sharing sensitive data within the University. For more information, see Appendix A.
- It is recommended that all UM owned mobile devices have disk-level encryption enabled by way of the operating system. Devices should also have a PIN or Password screen-lock configured.
- Mobile devices that will be used to store sensitive data must be approved by the IT Security Coordinator prior to use, and have disk-level encryption enabled. If disk-level encryption is not a viable option, the individual sensitive files may be encrypted with AES-256 encryption or equivalent instead.
- Ensure that all connections to other servers have end-to-end security. Use Virtual Private Network (VPN) protection where appropriate.
- Replace un-encrypted services and protocols with encrypted equivalents. All remote-access protocols used to manage critical infrastructure and/or servers should be encrypted. Telnet should be replaced with SSH. FTP should be replaced with SFTP. X connections should be securely tunneled.
• Disable remote access software and services unless absolutely necessary. When remote access must be enabled for support or management reasons, restrict access to the service by IP address using local software firewalls.
• Monitor remote support sessions. Caution must be taken to ensure sensitive data is not accessible or exposed by way of support from unauthorized parties.
• Servers should be configured to operate on non-standard network ports if at all possible. This simple step can help prevent many common attacks and significantly lessen overall security risks.
• All UM owned computers or servers, which are used to store, process, or transmit sensitive UM data, must be entered into the UM System Registry. The associated department must provide an active contact for each machine and ensure that registered information is kept current.

Patches and Application Updates
• Desktop computers and personal devices should be configured to apply application updates and operating system (OS) patches daily.
• Patches should be applied to servers on a regular basis as frequently as is feasible.
• Be alert for UM security announcements. It is much easier to stay abreast of patches and apply protection than to rebuild a system that has been compromised.

SMTP Mail Servers
• The operation of mail servers without authorization by the IT Security Coordinator is not allowed.
• Additional security requirements, e.g., restrictions on mail relaying, may be imposed for those who are permitted to run mail servers.

TCP/IP
• Disable unnecessary TCP/IP services.
• Stay abreast of security issues for any TCP/IP services that you run.

Time Synchronization
• Keep your time synchronized with a reliable NTP server. This is critical to accurately compare event logs with other servers, which is needed when investigating attacks.

Trust Relationships
• Avoid using ~/.rhost and /etc/hosts equivalent entries on Linux or other Unix based operating systems. Ideally, the .rhost capability should be permanently disabled. Verify Binaries.
• Make sure that system files have not been replaced or manipulated by hackers.
• Install only digitally signed applications, from a reputable source, signed by a third party certificate authority.
• When suspicious of faulty system activity that could be the result of hackers or
malicious software, run a system file check utility or consider re-installing the operating system software. Once complete, restore user content from a secure backup source.

**Viruses**

- UM-owned computers and servers must have software installed to protect against viruses from the Internet or other machines. The software should be configured to perform daily checking for updates and preferably configured in an active scan or real time scan mode.
- Contact the IT Helpdesk for information on options for anti-virus software.
- When a virus is detected, immediately disconnect the infected machine(s) from all networks and contact your systems administrator.
- In cases where a systems administrator manages multiple machines, he/she should contact all users with access to the infected system, explain how to find out if related systems are infected, and how to remove the virus.
- See [Anti-Virus Protection for UM Computers](#) for additional information.

13. Software Applications and Cloud Services

Department heads of units that procure and deploy software applications, including cloud-based services, are required to manage access to any sensitive information contained therein. This includes provisioning access and de-provisioning access, i.e., granting access as employees enter the university, adjusting access as employees change roles, and removing access when employees leave the university. Access is granted on a strict “need to know” basis and with the explicit approval of the employee’s supervisor, stating the job-related justification for the access. Records must be maintained showing who authorized access along with time stamps showing when access was authorized. The specific implementation of the authorization mechanism is determined by the department head.

14. Data Center Security Practices

**Access Security**

- Software and access security of all computing resources is maintained with a multi-tiered system of constructed user accounts (i.e., system operators are granted certain privileges, administrators other privileges, and so on).
- All passwords are changed regularly.
- Access to certain critical systems maintenance and administrative interfaces is restricted to defined physical locations to prevent online attacks or intrusions.

**Information Security**

- Data access above the account level is maintained via a layered firewall implementation that employs various filtering and authentication techniques in conjunction with virtual private networks.
• All confidential data transmitted between central administrative and academic systems, including backups, traverses a physically isolated secure network within the facility.
• Monitoring of data access activity is accomplished via a centralized log server.
• Sensitive data should not be stored on externally hosted systems, including cloud-based storage systems, without a contract that is fully vetted for compliance with relevant UM policies. For more information, see Appendix A.

Network Security
• Transmission of institutional data is routed through the campus network, which is a switched 100/1000/10000 Ethernet network.
• Locked doors to communication distribution areas provide physical security of the network.
• Where possible, data transmission is encrypted. For example, web-based services that use non-public, authenticated data are usually encrypted using SSL.

Offsite Backups
• Offsite data backups are replicated to a remote site. These backups are intended for use in disaster recovery procedures.

Protected Access Documentation
• Online documentation and procedural sections for operations staff are maintained in the building but are not accessible from anywhere else on the Internet.

Protection of Printed Materials
• Printed reports are delivered only to approved locations and personnel, and are never distributed in a way that would allow unauthorized access to sensitive client information. Undelivered printed reports are shredded.

Protection of Stored Magnetic Media
• Access to stored magnetic media is restricted to authorized users only.
• Magnetic media are wiped clean of stored information before they are discarded.

Site Security
• Physical security of the Data Center is maintained by an extensive anti-pass-back, fully monitored security system, which provides door-level information on all movement in the area and restricts access to authorized personnel.
• Cameras and video monitors allow staff to verify the identity of those requesting access to the area. The monitors and door security are functional twenty-four hours a day, seven days a week.

15. Multifunction Copier/Scanner/Printer Devices
The University is aware that multifunction scanner/copier/printer devices may include the capability of storing documents. Whether owned by the University or leased, the University requires that these devices must be configured and maintained according to the following security guidelines:

- Remote access to the device must require a complex, unique, eight (8) character password. Default passwords must be changed to meet this password requirement. Open, anonymous or unauthenticated access is prohibited. The vendor must install the device with these password restrictions in place by default.
- Unnecessary services must be disabled on printers. Local storage of documents using ftp/samba or other sharing services, including cloud, should not be used. They should be disabled.
- Email capabilities on printers can lead to data exposure. Use of this service is discouraged. Additional caution must be taken by the department to mitigate these risks if email is necessary. In these cases, the device must be configured to use UM email servers, and transport-layer security should be enabled. Additionally, the printer should require a code to be entered for usage.
- When a multifunction device is taken out of service, the internal storage component must be overwritten to render data inaccessible. If this level of protection cannot be accomplished, the internal storage component must be removed and delivered to UM procurement for destruction.

**Information Security Awareness Training**

IT provides security awareness training to all UM employees to help them keep abreast of the latest issues and techniques to protect university data. Security awareness training is a requirement for many UM employees. Details about security awareness training and other related resources can be found on the IT Security website.

**UM Response to Incidents**

A suspected violation of this policy should be reported through proper administrative channels.

- Violations by **faculty members** should be reported to the proper Department Chair, then to the Dean, then to the Provost, who will notify the IT Security Coordinator.
- Violations by **staff members** should be reported to the supervisor, then to the department head. The department head will then notify the Director of Human Resources and the IT Security Coordinator.
- Violations by **student employees** should be reported to the supervisor, then to the department head. The department head will then notify the Vice Chancellor for Student Affairs and the IT Security Coordinator.

Once suspected violations have been reported through proper channels, the Provost, Human Resources Director, or Vice Chancellor for Student Affairs, the IT Security
Coordinator will make a preliminary investigation into the infraction and specific incident(s). If the preliminary investigation shows just cause for disciplinary action, the case will be reviewed by proper judicial bodies and proper action(s) will be taken. If the preliminary investigation finds just cause for criminal prosecution, the case also will be investigated by the University Police Department.

Penalties to individuals for violating this policy are outlined in the UM Appropriate Use Policy.

In the event of a data breach, UM is subject to MS-DITS and U.S. Department of Education (DoE) reporting requirements as well as to the Mississippi Data Breach Notification Law\(^2\). Included in the MS-DITS requirements are the following:

- Each agency must report all information security incidents to the MS-DITS Information Security Division (ISD) as soon as possible.
- Each agency is responsible for assessing the significance of a security incident within their organization and for providing this information to MS-DITS ISD based on the business impact on affected resources and the current and potential technical effect of the incident (e.g., loss of revenue, productivity, access to services, reputation, unauthorized disclosure of sensitive information, or propagation to other networks).
- Each agency is responsible for contacting the appropriate law enforcement and investigative authorities if criminal action is suspected.

Mississippi law requires that the Mississippi residents be notified in cases of data breaches of their personal information. The legislation language defines personal information, outlines the circumstances that entail a breach, and provides related details such as timeliness of reporting.

UM uses the Internet2 Data Incident Notification Toolkit\(^3\) as a best practice for responding to incidents.

**Additional Information**

See the following UM policies for additional information related to Information Confidentiality/Security: IT Appropriate Use and Privacy in the Electronic Environment.

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\(^2\) See billstatus.ls.state.ms.us/documents/2010/pdf/HB/0500-0599/HB0583SG.pdf

\(^3\) See https://spaces.internet2.edu/display/2014infosecurityguide/Data+Incident+Notification+Toolkit.
### PLATFORM SECURITY CHART

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#### Platform Security Chart: References

1. Refers to systems such as SAP, Blackboard, etc. that are managed by professional IT staff with the highest security levels.
2. Refers to non-mobile, university-issued computers and storage devices connected to the campus network, which are outside of the University of Mississippi (UM) Data Center, or within the Data Center but not behind most restrictive Data Center firewalls.
3. UM IT implementations of Box, Google Apps, and Microsoft 365 offer a certain level of protection, but each user is responsible for managing their own shared access settings and preventing data exposure. Review account security and sharing settings often.
4. This includes university-issued computers and storage devices. The user is responsible for securing the device and preventing data exposure. Mobile devices approved to store sensitive data must be encrypted.
5. The department head is responsible for ensuring that the data and application is properly secured. Sensitive data must be encrypted.
6. Policy restrictions apply to storing UM data on a personal device, or storing it remotely using a personal account on a cloud service. This includes platforms such as Dropbox, iCloud, Adobe, AWS, and other hosting/storage/collaboration/messaging services.
7. Relevant email communication specific to an individual student is permitted. However, this communication is only permitted between official UM email platforms (@olemiss.edu and @go.olemiss.edu). Sets of data, which have not been de-identified, including grades and other non-directory information, may not be emailed. UM Registrar policies related to FERPA also apply.
8. The storage, processing, or transmission of any electronic Protected Health Information (ePHI) must be approved by the IT Security Coordinator. HIPAA affected areas may require additional resources including 3rd party audits at the expense of the department.
9. Mississippi law requires notifying individuals when particular personal information is digitally exposed. This includes an individual's first name, or first initial and last name, in combination with any of these elements: • Social Security number • State ID card number • Driver's license number • Financial/debit/credit account number with security password/code. Encrypted data is excluded.
10. Includes sensitive identifiable Human Subject Research data, which requires UM Institutional Review Board (IRB) approval, in addition to approval by the IT Security Coordinator. Also includes Export Controlled Research data (ITAR, EAR), Gramm Leach Billey Act (GLBA) financial data, and other federally designated Controlled Unclassified Information (CUI). Additional compliance needs and restrictions may be applicable. These resources are to be provided by the affected department.

#### Additional Notes on Sensitive Data

- Email is NOT a permitted medium for any un-encrypted sensitive data, unless specific exclusions are defined herein.
- All UM systems (servers, desktops, laptops, other mobile devices, etc.) with sensitive data MUST be in the UM System Registry

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https://olemiss.edu/ics