

## **Administrative Policies**

# **College Encryption and Key Management Standard**

The following standard is under the jurisdiction of the College's Information Security (ISec) Committee and maintained by the Office of Computer and Information Systems

## **Encryption**

All encryption methodologies and products must be approved by the College ISec Committee and must include the following:

- A. Encryption products must have Federal Information Processing Standard (FIPS) 140 (Security Requirements for Cryptographic Modules) validation.
- B. Full disk encryption products must utilize pre-boot authentication.
- C. The Office of Computer and Information Systems must inventory encrypted devices and media and validate that the encryption product has been successfully implemented.

## **Key Management**

Cryptographic keys used to encrypt and decrypt information must be protected in a secured environment. Keys must be securely distributed and stored. Access to these keys is restricted to only those individuals who have a business need to access the keys. Information encrypted with a key that has been compromised is no longer to be considered encrypted and must be re-encrypted as soon as possible. The following procedures must also be followed:

- A. Unencrypted keys must not be stored with the data that they encrypt.
- B. Keys must be protected with a password that conforms to the College's minimum Password Standard.
- C. Compromise of a key will require that a new key be generated to continue protection of the encrypted information.
- D. Encryption keys and software products must be maintained for the life of encrypted archived data.

***Approved by Executive Council  
February 12, 2010***