## Technical Requirements

1. **Operating System** 
   * Current OS and platforms supported by FAU (Solaris or Windows). Preferably function on multiple OS and platforms.
2. **Database**
   * Current FAU DB platforms such as Oracle 10g (preferred) Microsoft SQL Server or MySQL.
3. **System Integration**
   * Able to utilize FAU authentication methods (SSO using LDAP or AD) and/or CAS. We do not want to use a separate login/password for our users.
4. **Platform and browser independent** 
   * Maintain full content and client functionality across browsers and platforms (Internet Explorer, Firefox and Safari; Mac, Win, Linux).
5. **Development and Test Environments**
   * Licensing allowing multiple instances (i.e., development, testing/staging and production.
6. **Mirroring and backup strategy**
   * Support a disaster recovery strategy compatible with current disaster recovery strategy; capable of near real-time mirroring to a remote server to minimize data loss potential.
7. **Scalability**
   * Scalability[www.fau.edu](http://www.fau.edu) domain currently has more than 30 sub-domains, with more than a million pages. The current CMS system has about 200 users but we expect this to at least double.
8. **Web Server Independent**
   * Ability to support unlimited sites and sub-sites and sites hosted on different web servers.
   * Accommodates various server-side technologies (PHP, ASP, .NET, JSP, pure HTML or XHTML, etc.).
9. **Supports multiple character sets on web pages (UTF8 compliant)**
   * Should support basic non-English language character sets.
10. **Accessibility (ADA) Standards**
    * Conforms to Content Accessibility Guidelines (WCAG) 2.0 and facilitates creation of pages that adheres to W3C/508 standards.
11. **Modular/extensible architecture**
    * It would be good for the system to also allow programmers to build their own modules to extend the system’s functionality.
12. **Web 2.0 Enabled**
    * Able to leverage AJAX technologies and also provide features such as RSS management, polls, surveys, forms, image galleries, etc.
13. **Monitoring Tools**
    * Audit logging and the capability to easily monitor system status.

## Functional Requirements

1. **Completely Browser Based**
   * No additional non-browser client software to be installed in order to use.
2. **Account and Role Management**
   * User roles define functional privileges on system. Roles should be granular enough to allow for adequate rules based on what their privilege is for a certain sites.
3. **Folder and Page Access Controls**
   * Rights set at folder, file, and page element levels. Access to areas of a page or to a file directory can be restricted to select groups or users.
4. **Workflow**
   * Customizable multi-level workflow process for separating duties between distinct CMS users and an automated flow of tasks from user to user in defined stages.
   * Simple workflow privileges such as the right to author content, approve/decline content, or publish content.
   * Notification, integrated with our email system, of users when content is waiting for some type of action.
5. **Content Creation and Editing**
   * Intuitive WYSIWYG & source code editing
   * Warning before deletions processed.
   * Ability to preview content updates as they will appear to the public prior to publishing live.
   * Log of Content changes.
6. **In-Context Editing**
   * Browse through web to a page to update it – primarily for staff that infrequently update their pages and require the easiest possible way to make quick updates.
7. **Version Control**
   * Ability for system administrator to define number of versions to keep. Easy roll-back to a previous page version.
8. **Content Quality Check**
   * Utility to check link integrity and generate “dead link reports”.
   * Spell and grammar checker.
9. **Clean Paste from Word Docs**
   * Removal of formatting information (such as MSO code) when pasting from a Word document.
10. **Automatic Navigation Building** 
    * Automatically generated breadcrumbs, navigation, sub-navigation, and any other needed include elements.
    * Navigation easily modifiable.
11. **Search-Friendly URLs** 
    * All URLs should be filename based and either relative to the root or fully qualified, thus making your website SEO friendly
12. **Publish / Unpublish content**
    * Near real-time publishing to a remote server.
    * Ability to unpublish content from live site.
13. **Page Check-In/Check-Out** 
    * Automatic content locking when a user edits a file to prevent other users from editing same file.
    * Automatic content lock when file is in approval process.
14. **Intuitive Content Search**
    * Intuitive interface for finding the content user wants to edit.
15. **Metadata & Taxonomy**
    * Ability to define and capture metadata plus; allow creation of custom metadata fields.
    * Have a taxonomy schema that will help organize the data in CMS.
16. **Expire Content** 
    * Ability to set expiration date for content so it will display for a specific time period.
    * Have mail notification for content that is about to expire.
17. **Importing Content**
    * Ability to import multiple images, documents, or other files via a batch upload mechanism in addition to supporting individual file upload. This is particularly important during site migrations.
18. **Site Moves**
    * Ability to move entire sites without having to recreate.
19. **Image Editing**
    * Basic image editor that optimizes, resizes, crops, renames, and saves a selected image in one of many administrator-approved file formats.
20. **Rich content integration**
    * The ability to easily add media files (Flash, movies, audio, etc.) to a web page automatically adding its necessary tagging.
21. **Layout & Templates** 
    * Ability to create multiple Web templates and or layouts (skins or themes).
    * Should also have controlled access to these templates/layouts.
22. **Reports**
    * Report Tool that gives administrators access to generate traffic and stats reports such as user activity, login information, user access by IP, pages in process, pages scheduled to publish and expire, list of orphan/unlinked pages, and more.