

| <b><u>Requirement</u></b> | <b><u>Module</u></b> | <b><u>SubModule</u></b> | <b><u>Group</u></b> | <b><u>Text</u></b>   |
|---------------------------|----------------------|-------------------------|---------------------|--|
| Finance                   | Global               | Workflow                | General             | Ability to provide an event driven approval process using workflow rules.  |
| Finance                   | Global               | Workflow                | General             | Ability to interface workflow and event triggers with email system.  |
| Finance                   | Global               | Workflow                | General             | Ability to collect approval date and approval name.  |
| Finance                   | Global               | Workflow                | General             | Ability for authorized user to define a workflow for approval of interdepartmental transactions.   |
| Finance                   | Global               | Workflow                | General             | Provide approval of journal entry.   |
| Finance                   | Global               | Workflow                | General             | Provide workflow processing for purchase requisitions.   |
| Finance                   | Global               | Workflow                | General             | Provide workflow processing for purchase orders.   |
| Finance                   | Global               | Workflow                | General             | Provide workflow processing for accounts payable invoices.   |
| Finance                   | Global               | Workflow                | General             | Provide workflow processing for accounts payable payment requests.   |
| Finance                   | Global               | Workflow                | General             | Provide workflow processing for fixed asset transfer requests.   |
| Finance                   | Global               | Workflow                | General             | Provide workflow processing for travel requests and travel reimbursements.   |
| Finance                   | Global               | Workflow                | General             | Provide workflow process for workflow creation and maintenance.  |
| Finance                   | Global               | Workflow                | General             | Ability to record approval by date, status and name(s) of approver.  |
| Finance                   | Global               | Workflow                | General             | Ability to send FYI notifications on workflow actions.   |
| Finance                   | Global               | Workflow                | General             | Ability to route transactions to multiple approvers using workflow   |
| Finance                   | Global               | Workflow                | General             | Ability for originator to be notified when document or transaction processed.  |
| Finance                   | Global               | Workflow                | General             | Ability to attach notes and comments to any form or transaction.   |
| Finance                   | Global               | Workflow                | Routing to Proxies  | Ability to designate a proxy to act on approver's behalf for a designated period of time   |
| Finance                   | Global               | Workflow                | Routing to Proxies  | Proxy assignments routed through workflow to inform other parties on person, proxy, and term   |
| Finance                   | Global               | Workflow                | Routing to Proxies  | Proxy assignments routed through workflow at end of term to inform other parties   |
| Finance                   | Global               | Scanning                |                     | Ability to interface scanned or related documents to any form or transaction.  |
| Finance                   | Global               | Rules                   |                     | Provides for institution controlled rule-based transaction processing and editing.   |
| Finance                   | Global               | Rules                   |                     | Ability to define and enforce Institution rules in the database.   |
| Finance                   | Global               | Security                |                     | Authorized users are identified to the system by a Authorized user ID and password that is uniform across applications.  |
| Finance                   | Global               | Security                |                     | Users are authorized to perform selected functions by role.  |
| Finance                   | Global               | Security                |                     | Users are authorized to perform selected functions by role within area of responsibility (department).   |
| Finance                   | Global               | Security                |                     | Data extracts for ad hoc reporting will contain the same security features as the central data base to facilitate security on selected data items.                   |
| Finance                   | Global               | Security                |                     | Ability to view a source transaction that is "connected" to other transactions.  |
| Finance                   | Global               | Security                |                     | Ability to provide department-level security, where authorized users are restricted to interacting with only their department codes within transactions and reports. |
| Finance                   | Global               | Report Writer           |                     | Ability for the report generator to access data within and external to the financial system.   |
| Finance                   | Global               | Report Writer           |                     | Ability to construct queries within queries.   |
| Finance                   | Global               | Report Writer           |                     | Ability to save a report layout as the default layout.   |

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|--------------------|------------------|------------------|--------------|---|
| Finance            | Global           | Report Writer    |              | Ability to save report layout to a catalog of layouts for use within the system.  |
| Finance            | Global           | Report Writer    |              | Ability to dynamically total and sub-total based on any field within the report.  |
| Finance            | Global           | Report Writer    |              | Ability to dynamically sort ascending or descending based on any field within the report.   |
| Finance            | Global           | Report Writer    |              | Ability to dynamically select new fields to add to the report.  |
| Finance            | Global           | Report Writer    |              | Supports native reporting tools, allowing the authorized user to create new and ad hoc reports based upon their security profile. |
| Finance            | Global           | Report Writer    |              | Supports native reporting tools, allowing the authorized user to create new and ad hoc reports based upon their security profile. |
| Finance            | Global           | Report Writer    |              | Ability to extract reports to desktop software applications.  |
| Finance            | Global           | Report Writer    |              | Ability to personalize reports/query screens  |
| Finance            | Global           | Report Writer    |              | Provides extensive online query from account summary to source document.  |
| Finance            | Global           | Report Writer    |              | Ability to construct ad hoc agency reports.   |
| Finance            | Global           | Report Writer    |              | Ability to display numeric information in a variety of graphic formats such as pie-charts, histograms, etc.                       |
| Finance            | Global           | User Interface   |              | Ability to allow authorized users to access and input to the database using locally customizable forms and views.                 |
| Finance            | Global           | User Interface   |              | Ability to "warn" user message if exiting screen without saving.  |
| Finance            | Global           | User Interface   |              | Ability to use standard windows commands to copy and paste.   |
| Finance            | Global           | User Interface   |              | Ability for users to do "Print Screen."   |
| Finance            | Global           | User Interface   |              | Authorized users can personalize transaction entry screens  |
| Finance            | Global           | Data Warehouse   |              | Ability to deploy multiple data warehouse activities to support reporting functions.  |
| Finance            | Internal Control |                  |              | Ability to view all transaction audit trail data  |
| Finance            | Internal Control |                  |              | Provides standard and pre-configured audit trail capability.  |
| Finance            | Internal Control |                  |              | Audit trail provides the authorized user who made the change, the before/after value and the date/time of change.                 |
| Finance            | Internal Control |                  |              | Ability to manage all system and business audit tasks.  |
| Finance            | Internal Control |                  |              | Allows authorized users to view models of business processes for audit and documentation purposes.                                |
| Finance            | Internal Control |                  |              | Allows authorized users to view and update a hierarchy of business processes.   |
| Finance            | Internal Control |                  |              | Allows authorized users to import process hierarchy from a spreadsheet.   |
| Finance            | Internal Control |                  |              | Allows authorized users to create organization-specific process hierarchy.  |
| Finance            | Internal Control |                  |              | Allows authorized users to attach risks and controls to any business process.   |
| Finance            | Internal Control |                  |              | Allows authorized users to associate procedure documents with processes.  |
| Finance            | Internal Control |                  |              | Allows authorized users to link financial accounts to business processes.   |
| Finance            | Internal Control |                  |              | Allows authorized users to define risks and controls into a risk library.   |
| Finance            | Internal Control |                  |              | Allows authorized users to associate risks with multiple processes and categorize risks using risk types.                         |
| Finance            | Internal Control |                  |              | Allows authorized users to define the likelihood and impact of risks.   |
| Finance            | Internal Control |                  |              | Allows authorized users to associate controls with multiple risks.  |

| <u>Requirement</u> | <u>Module</u>    | <u>SubModule</u>  | <u>Group</u> | <u>Text</u>   |
|--------------------|------------------|-------------------|--------------|---|
| Finance            | Internal Control |                   |              | Allows authorized users to categorize controls by types and identify the control automation type.   |
| Finance            | Internal Control |                   |              | Allows authorized users to capture physical evidence for controls.  |
| Finance            | Internal Control |                   |              | Allows authorized users to create risk assessments and associated surveys.  |
| Finance            | Internal Control |                   |              | Allows authorized users to create, deploy and review survey results with threaded discussion.   |
| Finance            | Internal Control |                   |              | Allows authorized users to evaluate the survey responses and complete assessments   |
| Finance            | General Ledger   | Chart of Accounts | General      | Provide unlimited levels of hierarchy for all key chart of account elements.  |
| Finance            | General Ledger   | Chart of Accounts | General      | Institution defined attributes should be supported through delivered configuration methods, require no changes to source code, and survive upgrades.        |
| Finance            | General Ledger   | Chart of Accounts | General      | When chart of account element is created, it is immediately available to all other modules for editing of respective transactions.                          |
| Finance            | General Ledger   | Chart of Accounts | General      | Provide authorized user defined attributes to classify chart of account elements based on system-wide or department-specific needs.                         |
| Finance            | General Ledger   | Chart of Accounts | General      | Chart of Accounts is common for all finance modules.  |
| Finance            | General Ledger   | Chart of Accounts | General      | Ability to identify and maintain a hierarchical structure for organizational units.   |
| Finance            | General Ledger   | Chart of Accounts | General      | Ability to set up the chart of accounts for multiple fiscal years.  |
| Finance            | General Ledger   | Chart of Accounts | General      | Ability to log changes to chart of accounts by effective date and authorized user.  |
| Finance            | General Ledger   | Chart of Accounts | General      | Ability to set up control accounts and subsidiary accounts for multiple fiscal years.   |
| Finance            | General Ledger   | Chart of Accounts | General      | Ability to check expiration dates and roll flags when rolling subsidiary accounts.  |
| Finance            | General Ledger   | Chart of Accounts | General      | Ability to prohibit entries to revenue and expenditure accounts after fund has been closed.   |
| Finance            | General Ledger   | Chart of Accounts | General      | Ability to display fiscal year as "FY CCYY-CCYY" where CCYY is the 4 digit year.  |
| Finance            | General Ledger   | Chart of Accounts | General      | Ability to set default status to budget development in the new year - check budget phase.   |
| Finance            | General Ledger   | Chart of Accounts | General      | Ability to make year end adjustments in the following year.   |
| Finance            | General Ledger   | Chart of Accounts | General      | Ability to define year end encumbrance accounting based on budget policies during year-end processing.  |
| Finance            | General Ledger   | Chart of Accounts | General      | Allows for budget roll forward to next fiscal year.   |
| Finance            | General Ledger   | Chart of Accounts | General      | Ability to create consecutive fiscal periods for project life (grant, contract, construction) based on institution defined fiscal year start and end dates. |
| Finance            | General Ledger   | Chart of Accounts | General      | Allows for the definition of hierarchical structures for reporting of aggregate revenues and expenditures.  |
| Finance            | General Ledger   | Chart of Accounts | General      | Provides for the chart of accounts to be defined in a hierarchical structure with flexible coding configurations.   |
| Finance            | General Ledger   | Chart of Accounts | General      | Allows for due-to/due-from accounting entries.  |
| Finance            | General Ledger   | Chart of Accounts | General      | Ability to change begin and end dates on account at any time.   |
| Finance            | General Ledger   | Chart of Accounts | General      | The system should be able to electronically notify a authorized user of any additions or modifications to existing accounts/organizations/funding sources.  |

| <u>Requirement</u> | <u>Module</u>  | <u>SubModule</u>  | <u>Group</u> | <u>Text</u>   |
|--------------------|----------------|-------------------|--------------|---|
| Finance            | General Ledger | Chart of Accounts | General      | Ability for funds to be self-balancing sets of accounts for recording assets, liabilities, fund balances and changes in the fund balances.              |
| Finance            | General Ledger | Chart of Accounts | General      | Maintains separate accounts for each fund to ensure observance of restrictions placed on the use of resources.  |
| Finance            | General Ledger | Chart of Accounts | General      | Ability to link control accounts to detail accounts.  |
| Finance            | General Ledger | Chart of Accounts | General      | Ability to establish each control account with a valid and active fund and object code.   |
| Finance            | General Ledger | Chart of Accounts | General      | Ability to set control account numbers as unique within the fiscal year.  |
| Finance            | General Ledger | Chart of Accounts | General      | Ability to develop rules to handle allowable data elements in control accounts.   |
| Finance            | General Ledger | Chart of Accounts | General      | Ability to delete a control account with zero credits and zero debits.  |
| Finance            | General Ledger | Chart of Accounts | General      | Ability to populate account listing with control accounts associated with responsibility code.  |
| Finance            | General Ledger | Chart of Accounts | General      | Ability to assign control account links automatically.  |
| Finance            | General Ledger | Chart of Accounts | General      | Provides authorized users with the ability to add, delete, or modify validation rules.  |
| Finance            | General Ledger | Chart of Accounts | General      | Provides online control and maintenance of tables for definition of the chart of accounts.  |
| Finance            | General Ledger | Chart of Accounts | General      | Provides a translation table for account level and object level report codes to the institution's chart of accounts for reporting to external agencies. |
| Finance            | General Ledger | Chart of Accounts | General      | Provides table-driven chart of accounts.  |
| Finance            | General Ledger | Chart of Accounts | General      | Provides for online account creation and maintenance.   |
| Finance            | General Ledger | Chart of Accounts | General      | Ability to accommodate future changes in accounting methodology and reporting.  |
| Finance            | General Ledger | Chart of Accounts | General      | Provides for account reconciliation.  |
| Finance            | General Ledger | Chart of Accounts | General      | Ability to submit account for approval.   |
| Finance            | General Ledger | Chart of Accounts | General      | Ability to approve or reject account.   |
| Finance            | General Ledger | Chart of Accounts | General      | Ability to deactivate an account.   |
| Finance            | General Ledger | Chart of Accounts | General      | Ability to reactivate an account.   |
| Finance            | General Ledger | Chart of Accounts | General      | Ability to delete an account.   |
| Finance            | General Ledger | Chart of Accounts | General      | Ability to update an account.   |
| Finance            | General Ledger | Chart of Accounts | General      | Ability to create an audit log of account changes.  |
| Finance            | General Ledger | Chart of Accounts | General      | Ability to enter account number without using drop down boxes.  |
| Finance            | General Ledger | Chart of Accounts | General      | Ability to freeze activity for an account without deactivating the account.   |
| Finance            | General Ledger | Chart of Accounts | General      | Ability to designate the Fund Balance account to which an Operating Ledger Account will balance.  |
| Finance            | General Ledger | Chart of Accounts | General      | Ability to review and approve the addition of new accounts to the general ledger prior to input to the ledger.  |
| Finance            | General Ledger | Chart of Accounts | General      | Ability to identify grant accounts.   |
| Finance            | General Ledger | Chart of Accounts | General      | Provides multiple alternate hierarchies/groups for grants.  |
| Finance            | General Ledger | Chart of Accounts | General      | Ability to prevent status from being closed if there are outstanding encumbrances.  |
| Finance            | General Ledger | Chart of Accounts | General      | Ability to include project reference number in account coding on entries to general ledger.   |
| Finance            | General Ledger | Chart of Accounts | Elements     | Ability to define unlimited custom attributes for Account.  |
| Finance            | General Ledger | Chart of Accounts | Elements     | Ability to define separate accounting entities and provide separate and consolidated reporting.   |

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| Finance            | General Ledger | Chart of Accounts | Elements           | Ability to maintain self balancing funds to identify who has provided the resources (unrestricted/restricted/etc.)  |
| Finance            | General Ledger | Chart of Accounts | Elements           | Ability to assign fiscal responsibility for an account to a department/unit/division within the university  |
| Finance            | General Ledger | Chart of Accounts | Elements           | Ability to uniquely identify how resources are being used.  |
| Finance            | General Ledger | Chart of Accounts | Elements           | Ability to identify the purpose of the activity (NACUBO class, F&A, Budget summaries, etc)  |
| Finance            | General Ledger | Chart of Accounts | Elements           | Ability to classify account revenues, expenses, transfers, assets, liabilities and fund balances.   |
| Finance            | General Ledger | Chart of Accounts | Elements           | Provides sub-account to enable finer accounting within account than budget  |
| Finance            | General Ledger | Chart of Accounts | Elements           | Provides sub-objects to enable finer accounting withing object than budget  |
| Finance            | General Ledger | Chart of Accounts | Elements           | Ability to identify either cash, fund balance, or budget at lowest budget level (fund-responsibility-account-expense object).   |
| Finance            | General Ledger | Chart of Accounts | Elements           | Ability to identify either cash, fund balance, or budget at higher budget level (fund-responsibility-activity)  |
| Finance            | General Ledger | Chart of Accounts | Elements           | Ability to identify either cash, fund balance, or budget at higher budget level (fund-responsibility)   |
| Finance            | General Ledger | Chart of Accounts | Elements           | Ability to identify either cash, fund balance, or budget at higher budget level (fund)  |
| Finance            | General Ledger | Chart of Accounts | Elements           | Ability to identify either cash, fund balance, or budget at higher budget level (all unrestricted funds)  |
| Finance            | General Ledger | Chart of Accounts | Elements           | Ability for multi fiscal year accounts to appear closed for financial statement purposes at fiscal year end and continuous over the fiscal year end for any alternate reporting period that overlaps fiscal year end. This includes maintaining the ability to report, summarize and display detailed transactions over 1 or more fiscal years. |
| Finance            | General Ledger | Chart of Accounts | Rollup of Elements | Ability to summarize at least one level of entities   |
| Finance            | General Ledger | Chart of Accounts | Rollup of Elements | Ability to summarize at least five levels of funds  |
| Finance            | General Ledger | Chart of Accounts | Rollup of Elements | Ability to summarize at least five levels of responsibility   |
| Finance            | General Ledger | Chart of Accounts | Rollup of Elements | Ability to summarize at least five levels of accounts   |
| Finance            | General Ledger | Chart of Accounts | Rollup of Elements | Ability to summarize at least three levels of functions   |
| Finance            | General Ledger | Chart of Accounts | Rollup of Elements | Ability to summarize at least three levels of revenues  |
| Finance            | General Ledger | Chart of Accounts | Rollup of Elements | Ability to summarize at least three levels of natural expenses  |
| Finance            | General Ledger | Chart of Accounts | Rollup of Elements | Ability to summarize at least three levels of expense budget objects  |
| Finance            | General Ledger | Chart of Accounts | Rollup of Elements | Ability to summarize at least three levels of balance sheet objects   |
| Finance            | General Ledger | Chart of Accounts | Rollup of Elements | Ability to summarize at least three levels of sub-accounts  |
| Finance            | General Ledger | Chart of Accounts | Rollup of Elements | Ability to summarize at least three levels of sub-objects   |
| Finance            | General Ledger | General           |                    | All transactions are immediately posted to the general ledger, in real-time.  |
| Finance            | General Ledger | General           |                    | Provides full accrual basis of accounting in real-time on every transaction.  |
| Finance            | General Ledger | General           |                    | Supports "real time" data entry with automatic feed to the general ledger.  |
| Finance            | General Ledger | General           |                    | Supports batch data entry with automatic feed to the general ledger.  |
| Finance            | General Ledger | General           |                    | Maintains audit trail of all data entry activity, with date/time/entry source   |
| Finance            | General Ledger | General           |                    | Ability to import or export data from other applications.   |
| Finance            | General Ledger | General           |                    | Maintains common data files (such as Chart of Accounts) and file structures which must be incorporated in the financial systems.  |

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|--------------------|----------------|------------------|--------------|---|
| Finance            | General Ledger | General          |              | Ability to reconcile financial data with similar data maintained in other modules   |
| Finance            | General Ledger | General          |              | Ability to maintain a fund balance that is always current to facilitate any fiscal period method.   |
| Finance            | General Ledger | General          |              | Ability to support multiple preliminary closing processes before the final closing.   |
| Finance            | General Ledger | General          |              | Provides for online review of all supporting tables during transaction processing.  |
| Finance            | General Ledger | General          |              | Ability to generate consecutive document and transaction reference ID numbers.  |
| Finance            | General Ledger | General          |              | Ability to support account number inquiries.  |
| Finance            | General Ledger | General          |              | Ability to create transactions in an effective transaction date method that allows processing in multiple fiscal periods.   |
| Finance            | General Ledger | General          |              | Ability to ensure validity of all general ledger transactions by developing system rules.   |
| Finance            | General Ledger | General          |              | Ability to process general ledger transactions from systems via an API.   |
| Finance            | General Ledger | General          |              | Ability to reference GL transactions with a reference number to allow tracking to other systems.  |
| Finance            | General Ledger | General          |              | Ability to identify multiple transactions types (sources) in the general ledger.  |
| Finance            | General Ledger | General          |              | Ability to collect transaction controls by fiscal year.   |
| Finance            | General Ledger | General          |              | Ability to post summary transactions to the general ledger.   |
| Finance            | General Ledger | General          |              | Ability to post detail transactions to the general ledger.  |
| Finance            | General Ledger | General          |              | Performs pre-posting verification of transactions prior to posting to the general ledger.   |
| Finance            | General Ledger | General          |              | Ability to require that oldest open period be the default for closing out a period.   |
| Finance            | General Ledger | General          |              | Maintains account detail online for current and prior fiscal year(s).   |
| Finance            | General Ledger | General          |              | Allows each general ledger account to maintain the cash ownership associated with that particular fund without requiring separate bank accounts for each fund.      |
| Finance            | General Ledger | General          |              | Allows for concurrent month processing.   |
| Finance            | General Ledger | General          |              | Provides automated year-end processing on demand.   |
| Finance            | General Ledger | General          |              | Provides automated month-end processing on demand.  |
| Finance            | General Ledger | General          |              | Ability to allow a negative account balance or budget balance with override.  |
| Finance            | General Ledger | General          |              | Ability to create an audit log showing overrides.   |
| Finance            | General Ledger | General          |              | Provides for audit trails.  |
| Finance            | General Ledger | General          |              | Ability to account for separately maintained bank balances and automatically update them as the result of cash receipt and disbursement transactions in the system. |
| Finance            | General Ledger | General          |              | Ability to begin processing (online) new month and/or new year information before closing prior one (concurrent month/year processing).                             |
| Finance            | General Ledger | General          |              | Provides for an error suspense file, allowing batch transaction containing errors to be subsequently corrected and processed rather than completely re-entered.     |
| Finance            | General Ledger | General          |              | Ability to process interfund transfers.   |

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|--------------------|----------------|------------------|--------------|---|
| Finance            | General Ledger | General          |              | Ability to cut-off general department authorized users from entering journal entries at an earlier date than central accounting offices.  |
| Finance            | General Ledger | General          |              | Ability to set-up an institution defined accounting calendar containing multiple adjusting periods for year-end journal entry processing.   |
| Finance            | General Ledger | General          |              | Ability to determine the specific user who created and last updated a journal entry.  |
| Finance            | General Ledger | General          |              | Ability to generate standard interface reports detailing the transactions submitted by other subsystems.  |
| Finance            | General Ledger | General          |              | Ability to integrate with vendor's own HR/Payroll system and with other vendor's HR/Payroll systems and be able to share Chart of Accounts information.                                       |
| Finance            | General Ledger | General          |              | Ability to allow online real-time integration of all systems (i.e., instantaneous posting).   |
| Finance            | General Ledger | General          |              | The system must allow the end-user to schedule interface jobs.  |
| Finance            | General Ledger | General          |              | The system must notify key users when interface jobs fail.  |
| Finance            | General Ledger | General          |              | The system must provide detailed error messages when any transaction or process fails.  |
| Finance            | General Ledger | General          |              | The system must prevent loads of duplicate batches from subsystems.   |
| Finance            | General Ledger | General          |              | The system must provide error and control reports that allow reconciliation between the subsystem and GL.   |
| Finance            | General Ledger | General          |              | Ability to support encumbrance accounting.  |
| Finance            | General Ledger | General          |              | Ability to map files from other transaction sources (i.e. internal recharge centers) to journal entry format.   |
| Finance            | General Ledger | General          |              | Ability to upload journal entry files from spreadsheets or other external sources.  |
| Finance            | General Ledger | General          |              | Ability to enter start and end dates on accounts, allowing end dates to be optional for ongoing accounts. Entries are not allowed to account before start date or after end date, if entered. |
| Finance            | General Ledger | General          |              | Ability to maintain access to multiple fiscal years information within the financial system   |
| Finance            | General Ledger | General          |              | Ability to prevent transaction affecting prior year cash balances after closing.  |
| Finance            | General Ledger | General          |              | Ability to reopen prior year accounts with properly defined authorizations.   |
| Finance            | General Ledger | General          |              | Ability to accept encumbrance transactions from other systems (Payroll)   |
| Finance            | General Ledger | Journal Entries  | General      | Ability to process compound journal entries.  |
| Finance            | General Ledger | Journal Entries  | General      | Ability to identify a journal entry uniquely within the fiscal year.  |
| Finance            | General Ledger | Journal Entries  | General      | Ability to restrict journal update authority to the originator and approver of an existing journal.   |
| Finance            | General Ledger | Journal Entries  | General      | Ability to prohibit changes to a journal that has been submitted for approval or posted.  |
| Finance            | General Ledger | Journal Entries  | General      | Ability to collect a cross reference number and a description of the journal.   |
| Finance            | General Ledger | Journal Entries  | General      | Ability to restrict journal types to those allowed by the authorized user.  |
| Finance            | General Ledger | Journal Entries  | General      | Ability to allow multiple line items per journal.   |
| Finance            | General Ledger | Journal Entries  | General      | Ability to provide for multiple transaction codes for audit tracking.   |
| Finance            | General Ledger | Journal Entries  | General      | Ability to record cross-reference numbers and descriptions per journal and line item.   |

| <u>Requirement</u> | <u>Module</u>  | <u>SubModule</u> | <u>Group</u> | <u>Text</u>  |
|--------------------|----------------|------------------|--------------|--|
| Finance            | General Ledger | Journal Entries  | General      | Ability to create audit log of updates and changes to journals entries by person initiating the change.  |
| Finance            | General Ledger | Journal Entries  | General      | Ability to collect journal entry account number, amount, description and transaction type.   |
| Finance            | General Ledger | Journal Entries  | General      | Ability to validate that accounts exist, have not expired and are approved and active.   |
| Finance            | General Ledger | Journal Entries  | General      | Ability to save work for later update providing all line items with data containing valid accounts.  |
| Finance            | General Ledger | Journal Entries  | General      | Ability to copy and reverse entries from prior journal entries.  |
| Finance            | General Ledger | Journal Entries  | General      | Ability to validate that the journal totals balance within fund.   |
| Finance            | General Ledger | Journal Entries  | General      | Ability to require override authorization for any journal updates that force a negative balance.   |
| Finance            | General Ledger | Journal Entries  | General      | Ability to save unbalanced journal entries.  |
| Finance            | General Ledger | Journal Entries  | General      | Ability to automatically notify subsystem owners that batch submissions have been received, especially if a batch is out of balance or contains erroneous journal entries.             |
| Finance            | General Ledger | Journal Entries  | General      | Ability to make entries to open periods other than current.  |
| Finance            | General Ledger | Journal Entries  | General      | Ability to delete unposted journal entry.  |
| Finance            | General Ledger | Journal Entries  | Type         | Ability to code and enter a single event with a required descriptive code  |
| Finance            | General Ledger | Journal Entries  | Type         | Ability to code and enter multiple event vouchers with current and/or future periods with pre-scheduled accounting dates with a required descriptive code (recurring journal vouchers) |
| Finance            | General Ledger | Journal Entries  | Type         | Ability to code and enter a single or multiple event to reverse at pre-scheduled accounting dates with a required descriptive code (reversing journal vouchers)                        |
| Finance            | General Ledger | Journal Entries  | Type         | Ability to code and enter a voucher that derives the debit and/or credit values from either balances or transactions to designated accounts (automated journal vouchers)               |
| Finance            | General Ledger | Journal Entries  | Type         | Ability to post a single event non-reversing voucher to a closed accounting month with a required descriptive code and with proper authorization.                                      |
| Finance            | General Ledger | Journal Entries  | Type         | Ability to post a single event non-reversing voucher to a closed accounting fiscal year with a required descriptive code and with proper authorization.                                |
| Finance            | General Ledger | GL Reporting     |              | Provides annual reporting of activity.   |
| Finance            | General Ledger | GL Reporting     |              | Provides monthly reporting of activity.  |
| Finance            | General Ledger | GL Reporting     |              | Provides weekly reporting of activity.   |
| Finance            | General Ledger | GL Reporting     |              | Provides daily reporting of activity.  |
| Finance            | General Ledger | GL Reporting     |              | Ability to run reports at least daily.   |
| Finance            | General Ledger | GL Reporting     |              | Provides multi-year processing and reporting.  |
| Finance            | General Ledger | GL Reporting     |              | Ability to filter general ledger control account reports by ranges and by specific selections.   |
| Finance            | General Ledger | GL Reporting     |              | Ability to summarize and sort general ledger control account reports in a variety of ways under user control.  |
| Finance            | General Ledger | GL Reporting     |              | Ability to include start and end dates in the parameters form.   |
| Finance            | General Ledger | GL Reporting     |              | Maintains multiple years of reportable data online for comparison reporting, including ratio analysis.   |

| <u>Requirement</u> | <u>Module</u>  | <u>SubModule</u> | <u>Group</u> | <u>Text</u>   |
|--------------------|----------------|------------------|--------------|---|
| Finance            | General Ledger | GL Reporting     |              | Ability to handle both fiscal year and inception-to-date accounting and reporting with carryover of encumbrances for all accounts and budgets for project accounts.   |
| Finance            | General Ledger | GL Reporting     |              | Provides standard financial reports for trial balance.  |
| Finance            | General Ledger | GL Reporting     |              | Provides standard financial reports for cash flow.  |
| Finance            | General Ledger | GL Reporting     |              | Provides standard financial reports for encumbrance statement.  |
| Finance            | General Ledger | GL Reporting     |              | Provides standard financial reports for statement of revenues, expenditures and changes in net assets.  |
| Finance            | General Ledger | GL Reporting     |              | Provides standard financial reports for net assets.   |
| Finance            | General Ledger | GL Reporting     |              | Ability to filter general ledger subsidiary account reports by ranges and by specific selections.   |
| Finance            | General Ledger | GL Reporting     |              | Ability to summarize and sort general ledger reports in a variety of ways under control of the user.  |
| Finance            | General Ledger | GL Reporting     |              | Ability to inquire against a general ledger account in a variety of ways as specified by the authorized user.   |
| Finance            | General Ledger | GL Reporting     |              | Ability to create custom reports that allow authorized user control of format, paging criteria, sorting, subtotals, totals, etc.  |
| Finance            | General Ledger | GL Reporting     |              | Ability to define and develop centrally-defined exception or audit reports to review and monitor certain types of transactions, such as those exceeding pre-defined limits, thresholds, or certain types of account activity of interest to financial analysts. |
| Finance            | General Ledger | GL Reporting     |              | Ability for a central or departmental manager to view online at any time any journal entries effecting their accounts, date processed, date posted, and the transaction originator, regardless of the actual journal entry originator.                          |
| Finance            | General Ledger | GL Reporting     |              | Ability to extract and transfer information from the GL to an external reporting facility (Data Warehouse or other subsystem needs).  |
| Finance            | General Ledger | GL Reporting     |              | Ability to generate general ledger revenue and expenditure ledgers.   |
| Finance            | General Ledger | GL Reporting     |              | Supports detailed and summary inquiry/reporting.  |
| Finance            | General Ledger | GL Reporting     |              | Provides for roll-up reporting.   |
| Finance            | General Ledger | GL Reporting     |              | Supports project reporting by fund.   |
| Finance            | General Ledger | GL Reporting     |              | Supports project reporting by grant.  |
| Finance            | General Ledger | GL Reporting     |              | Supports fiscal reporting by projects by all attributes.  |
| Finance            | General Ledger | GL Reporting     |              | Ability to generate listings of Chart of Accounts element codes and account numbers.  |
| Finance            | General Ledger | GL Reporting     |              | Ability to inquire against and review information before printing.  |
| Finance            | General Ledger | GL Reporting     |              | Ability to cross reference historical data to reflect and report account code changes.  |
| Finance            | General Ledger | GL Reporting     |              | Ability to extract and report selected accounts to compare account balances.  |
| Finance            | General Ledger | GL Reporting     |              | Ability to inquire against the Chart of Accounts setup.   |
| Finance            | General Ledger | GL Reporting     |              | Ability to drill-down on account number elements.   |
| Finance            | General Ledger | GL Reporting     |              | Provides online summary queries by account.   |
| Finance            | General Ledger | Encumbrances     |              | Ability to record encumbrances against specific line items within a budget account.   |

| <u>Requirement</u> | <u>Module</u>       | <u>SubModule</u>   | <u>Group</u> | <u>Text</u>  |
|--------------------|---------------------|--------------------|--------------|--|
| Finance            | General Ledger      | Encumbrances       |              | Ability to create multiple types of manual encumbrance documents can be created (e.g. Funds Reservation, Funds Pre-Commitment, Funds Commitment, and Funds Blocking) to denote increasing levels of the encumbrance.   |
| Finance            | General Ledger      | Encumbrances       |              | Ability to maintain both encumbrance methods, i.e. (1) recalculation & reversal for classes of transactions such as hourly/student employees, and (2) calculation and transaction adjustments for payments and pay changes for permanent employees, and purchase orders with transaction adjustments for payments and change orders. |
| Finance            | General Ledger      | Encumbrances       |              | Ability to encumber annual salary and fringe benefit data at account number level detail.  |
| Finance            | General Ledger      | Encumbrances       |              | Ability to as monthly salary and fringe benefits are charged to an account number, adjust encumbrances accordingly.  |
| Finance            | General Ledger      | Encumbrances       |              | Ability to receive salary and fringe benefit encumbrance data as new positions are approved throughout the year.   |
| Finance            | General Ledger      | Funds Availability |              | Ability to support institution defined budgetary control options.  |
| Finance            | General Ledger      | Funds Availability |              | Ability to provide online funds availability for all transactions.   |
| Finance            | General Ledger      | Funds Availability |              | Ability to provide authorized user overrides to bypass funds availability checking.  |
| Finance            | General Ledger      | Funds Availability |              | Ability to provide override capability for those account numbers whose balances are insufficient to cover encumbrances and expenditures.   |
| Finance            | General Ledger      | Interfaces         |              | Vendor has interfaced with Oracle HRS  |
| Finance            | General Ledger      | Interfaces         |              | Vendor has interfaced with SCT Student   |
| Finance            | General Ledger      | Interfaces         |              | Vendor has interfaced with Library Innovative Interfaces, Inc. System  |
| Finance            | General Ledger      | Interfaces         |              | Vendor has interfaced with MBS Bookstore System  |
| Finance            | General Ledger      | Interfaces         |              | Vendor has interfaced with Facilities XXXXX  |
| Finance            | General Ledger      | Interfaces         |              | Vendor has interfaced with CashNet   |
| Finance            | General Ledger      | Interfaces         |              | Vendor has interfaced with CRIS  |
| Finance            | Accounts Receivable | General            |              | Accounts Receivable account transactions are immediately posted to the general ledger, in real-time.   |
| Finance            | Accounts Receivable | General            |              | Ability to support accrual accounting for accounts receivable function.  |
| Finance            | Accounts Receivable | General            |              | Allows for the definition of customers as internal or external to the institution.   |
| Finance            | Accounts Receivable | General            |              | Supports the billing of customers and the recording of appropriate accounting entries.   |
| Finance            | Accounts Receivable | General            |              | Ability to automatically update the Accounts Receivable account in the General Ledger for external customers.  |
| Finance            | Accounts Receivable | General            |              | Provides for institution defined charge, credit, and payment codes.  |
| Finance            | Accounts Receivable | General            |              | Provides for user-defined deferred payment plans with automatic notice generation.   |
| Finance            | Accounts Receivable | General            |              | Provides optional archive to retain a record as active if a charge does not have payments fully allocated against it.  |
| Finance            | Accounts Receivable | General            |              | Ability to allow the definition of various payment allocation methods by account or charge type.   |
| Finance            | Accounts Receivable | General            |              | Ability to indicate Accounts Receivable items in dispute.  |
| Finance            | Accounts Receivable | General            |              | Ability to edit invoices and credit memos for valid and active GL accounts.  |
| Finance            | Accounts Receivable | General            |              | Ability to approve accounts receivable adjustments before the general ledger transactions are created.   |

| <u>Requirement</u> | <u>Module</u>       | <u>SubModule</u> | <u>Group</u> | <u>Text</u>  |
|--------------------|---------------------|------------------|--------------|--|
| Finance            | Accounts Receivable | General          |              | Ability to create necessary general ledger transactions resulting from changes to invoices and credit memos.   |
| Finance            | Accounts Receivable | General          |              | Ability to interface to the General Ledger.  |
| Finance            | Accounts Receivable | Apply Payments   |              | Ability to apply and post payments online.   |
| Finance            | Accounts Receivable | Apply Payments   |              | Allows for allocation of payments against charges at payment entry time if the payment is for a particular purpose.                                  |
| Finance            | Accounts Receivable | Apply Payments   |              | Allows for automatic allocation of payment to oldest outstanding charges.  |
| Finance            | Accounts Receivable | Apply Payments   |              | Ability to enter the payment against an active receivable.   |
| Finance            | Accounts Receivable | Apply Payments   |              | Ability to generate necessary general ledger transactions for payment against a receivable.  |
| Finance            | Accounts Receivable | Apply Payments   |              | Ability to handle split payments by entering multiple payment transactions.  |
| Finance            | Accounts Receivable | Apply Payments   |              | Ability to match returned checks to accounts receivable records.   |
| Finance            | Accounts Receivable | Apply Payments   |              | Ability to enter the return check information, reinstate receivable and assess service charges.  |
| Finance            | Accounts Receivable | Apply Payments   |              | Ability to generate necessary general ledger transactions for a returned check, e.g. accounts receivable and service charges.                        |
| Finance            | Accounts Receivable | Apply Payments   |              | Ability to override full item amount with partial payment, leaving balance open.   |
| Finance            | Accounts Receivable | Apply Payments   |              | Ability to force cash amounts applied to multiple open items to equal the check amount, or to post under-applied amount to the account as unapplied. |
| Finance            | Accounts Receivable | Apply Payments   |              | Ability to apply payments received "on-account" if the invoice number is not known at the time of cash application.                                  |
| Finance            | Accounts Receivable | Apply Payments   |              | Ability to allow manual application of cash to open invoices if the invoice number is not provided by the customer.                                  |
| Finance            | Accounts Receivable | Apply Payments   |              | Ability to manage advance payment and allow the association of payments to future periods or charges.  |
| Finance            | Accounts Receivable | Apply Payments   |              | Ability to accommodate simultaneous application of cash and open credits to a specific open invoice.   |
| Finance            | Accounts Receivable | Billing          |              | Provides for invoice creation.   |
| Finance            | Accounts Receivable | Billing          |              | Provides for credit memo creation.   |
| Finance            | Accounts Receivable | Billing          |              | Ability to process deferred (not yet due) invoices at the customer level.  |
| Finance            | Accounts Receivable | Billing          |              | Ability to enter receivables invoice data and change the status to "invoiced".   |
| Finance            | Accounts Receivable | Billing          |              | Ability to specify a format for invoices which requires a specific form.   |
| Finance            | Accounts Receivable | Billing          |              | Ability to indicate a deferral by payment due date for invoices at the customer level.   |
| Finance            | Accounts Receivable | Billing          |              | Ability to determine which address prints on invoices.   |
| Finance            | Accounts Receivable | Billing          |              | Ability to indicate due dates and payment dates on the invoice   |
| Finance            | Accounts Receivable | Collection       |              | Ability to integrate with desktop word processing software for generating customer correspondence.   |
| Finance            | Accounts Receivable | Collection       |              | Ability to indicate that receivable was sent to collections or is uncollectible.   |
| Finance            | Accounts Receivable | Collection       |              | Provides analysis of collection/write-off accounts.  |
| Finance            | Accounts Receivable | Collection       |              | Ability to track accounts turned over to collection.   |
| Finance            | Accounts Receivable | Collection       |              | Ability to identify accounts sent to collection agencies.  |

| <u>Requirement</u> | <u>Module</u>       | <u>SubModule</u>                                 | <u>Group</u> | <u>Text</u>  |
|--------------------|---------------------|--|--------------|--|
| Finance            | Accounts Receivable | Collection                                       |              | Ability to assign past due/uncollectible accounts to collection agencies and automatically send the data to a designated office (in-house collection staff, state collections, etc.) |
| Finance            | Accounts Receivable | Collection                                       |              | Ability to define aging increment "buckets."   |
| Finance            | Accounts Receivable | Collection                                       |              | Ability to calculate AR aging based on invoice date and customer payment terms.  |
| Finance            | Accounts Receivable | Collection                                       |              | Ability to provide detail online for past due invoices.  |
| Finance            | Accounts Receivable | Collection                                       |              | Ability to maintain an account past due profile (no. of months past due) and display it in summary form.   |
| Finance            | Accounts Receivable | Collection                                       |              | Ability to have an authorized user secured option to write-off open receivables as bad debts.  |
| Finance            | Accounts Receivable | Collection                                       |              | Ability to generate contact reminders based on next schedule contact date.   |
| Finance            | Accounts Receivable | Collection                                       |              | Ability to have authorized user defined rules for dunning letters and finance charge application.  |
| Finance            | Accounts Receivable | Collection                                       |              | Ability to generate dunning letters based on user defined criteria, including account aging status, collection status and/or account number.   |
| Finance            | Accounts Receivable | Collection                                       |              | Ability to track dunning letters.  |
| Finance            | Accounts Receivable | Collection                                       |              | Ability to calculate bad debt allowance by a prorated revenue basis formula.   |
| Finance            | Accounts Receivable | Collection                                       |              | Ability to have several adjustment types and GL processing: customer allowances separate from bad debt writeoff  |
| Finance            | Accounts Receivable | Sales Tax billing, collection, and payment to ta |              | Ability to code a bill-to customer as sales tax exempt with a reason code or a valid tax exemption code  |
| Finance            | Accounts Receivable | Sales Tax billing, collection, and payment to ta |              | Ability to code a ship-to customer with the current state and local tax jurisdictions if the bill-to is not exempt   |
| Finance            | Accounts Receivable | Sales Tax billing, collection, and payment to ta |              | Ability to load and maintain a current state and local jurisdiction tax table for commodity types and service types  |
| Finance            | Accounts Receivable | Sales Tax billing, collection, and payment to ta |              | Ability to maintain commodity and service types for sales tax purposes   |
| Finance            | Accounts Receivable | Sales Tax billing, collection, and payment to ta |              | Ability to calculate applicable state and local sales tax, add to invoice and post to designated liability accounts  |
| Finance            | Accounts Receivable | Sales Tax billing, collection, and payment to ta |              | Ability to credit sales-tax only with reason codes; post to sales tax tables and liability accounts  |
| Finance            | Accounts Receivable | Sales Tax billing, collection, and payment to ta |              | Ability to identify sales tax paid by customer and remit taxes on cash basis versus accrual basis  |
| Finance            | Accounts Receivable | Sales Tax billing, collection, and payment to ta |              | Ability to update sales tax tables for payments processed through accounts payable   |
| Finance            | Accounts Receivable | Refunds  |              | Ability to integrate with Accounts Payable for refunds of credit balances.   |
| Finance            | Accounts Receivable | Refunds  |              | Ability to indicate the amount to be paid by Accounts Payable by account number.   |
| Finance            | Accounts Receivable | Past Due/Late Charges                            |              | Provides for the automatic application of institution defined late fees to accounts.   |
| Finance            | Accounts Receivable | Past Due/Late Charges                            |              | Provides for the automatic application of institution defined interest charges to accounts.  |
| Finance            | Accounts Receivable | Past Due/Late Charges                            |              | Ability to automatically generate notices for delinquent receivables.  |
| Finance            | Accounts Receivable | Past Due/Late Charges                            |              | Ability to determine which address prints on late charge/penalty charge notifications.   |

| <u>Requirement</u> | <u>Module</u>       | <u>SubModule</u>  | <u>Group</u> | <u>Text</u>  |
|--------------------|---------------------|-------------------|--------------|--|
| Finance            | Accounts Receivable | Employee Accounts |              | Ability to interface with payroll system to identify employees having NSF checks.  |
| Finance            | Accounts Receivable | Employee Accounts |              | Ability to interface with payroll system to identify employees having receivables.   |
| Finance            | Accounts Receivable | Statements        |              | Provides for statement generation.   |
| Finance            | Accounts Receivable | Statements        |              | Ability to determine which address prints on statements.   |
| Finance            | Accounts Receivable | AR Reporting      |              | Provides online query of account status on payments.   |
| Finance            | Accounts Receivable | AR Reporting      |              | Provides online query of account status on detail charges.   |
| Finance            | Accounts Receivable | AR Reporting      |              | Ability to display detail of charges, payments, invoices, credit history, cash receipts, debit memos, adjustments and credit memos online. |
| Finance            | Accounts Receivable | AR Reporting      |              | Provides standard financial reports for AR Aging.  |
| Finance            | Accounts Receivable | AR Reporting      |              | Ability to produce report of all credit balances as part of interface to Accounts Payable.   |
| Finance            | Accounts Receivable | AR Reporting      |              | Ability to report year-end data by dates and accounts with various selections and sequences.   |
| Finance            | Accounts Receivable | AR Reporting      |              | Ability to view/print past due accounts receivable using various selections and sequences.   |
| Finance            | Accounts Receivable | AR Reporting      |              | Ability to view/print summaries of revenue using various selections and sequences.   |
| Finance            | Purchasing          | eProcurement      | Self Service | Ability to interface to external providers of eProcurement systems   |
| Finance            | Purchasing          | eProcurement      |              | Provides an online item catalog and search capability.   |
| Finance            | Purchasing          | eProcurement      | Self Service | Allows authorized users to browse product catalogs and ordering templates.   |
| Finance            | Purchasing          | eProcurement      | Self Service | Allows authorized users to search catalogs quickly using keywords.   |
| Finance            | Purchasing          | eProcurement      | Self Service | Allows authorized users to group and display category hierarchies.   |
| Finance            | Purchasing          | eProcurement      | Self Service | Ability to purchase directly from the web site of the vendor   |
| Finance            | Purchasing          | Procurement Card  |              | Ability to interface to Procurement Card providers.  |
| Finance            | Purchasing          | Procurement Card  |              | Ability to record purchases made using procurement cards   |
| Finance            | Purchasing          | Procurement Card  |              | Allows card holder to view procurement card transactions.  |
| Finance            | Purchasing          | Procurement Card  |              | Allows card holder to approve payment of procurement card transactions.  |
| Finance            | Purchasing          | Procurement Card  |              | Ability to track status of electronically purchased items not carrying purchase order numbers.   |
| Finance            | Purchasing          | Requisitions      | Self Service | Allows authorized users to create a purchase requisition on line.  |
| Finance            | Purchasing          | Requisitions      | Self Service | Allows purchase requisition to be routed for approvals through workflow.   |
| Finance            | Purchasing          | Requisitions      | Self Service | Allows authorized users to place special orders for non-catalog items.   |
| Finance            | Purchasing          | Requisitions      | Self Service | Allows authorized users to place special orders for services.  |
| Finance            | Purchasing          | Requisitions      | Self Service | Allows authorized users to use templates to capture additional information for non-catalog and services requests.                          |
| Finance            | Purchasing          | Requisitions      | Self Service | Allows authorized users to enter cost center or account numbers.   |
| Finance            | Purchasing          | Requisitions      | Self Service | Allows authorized users to enter multiple account distribution for requisition lines.  |
| Finance            | Purchasing          | Requisitions      | Self Service | Allows funds available edit to budget in the account before continuing with transaction.   |
| Finance            | Purchasing          | Requisitions      | Self Service | Allows authorized users to obtain purchase order number immediately under an emergency requisition process.                                |
| Finance            | Purchasing          | Requisitions      | Self Service | Allows authorized users to copy an existing requisition to a new requisition.  |

| <u>Requirement</u> | <u>Module</u> | <u>SubModule</u> | <u>Group</u> | <u>Text</u>   |
|--------------------|---------------|------------------|--------------|---|
| Finance            | Purchasing    | Requisitions     | Self Service | Allows authorized users to attach documents to the transaction (Files, images, spreadsheets, etc.)  |
| Finance            | Purchasing    | Requisitions     | Self Service | Provides automatic generation of charge account defaults based on institution defined account generation rules.   |
| Finance            | Purchasing    | Requisitions     | Self Service | Ability to approve or reject requisitions using workflow.   |
| Finance            | Purchasing    | Requisitions     | Self Service | Allows approvers to make changes or request further information from initiator.   |
| Finance            | Purchasing    | Requisitions     | Self Service | Notifies requesters of overdue orders and confirm receipts using workflow.  |
| Finance            | Purchasing    | Requisitions     | Self Service | Allows authorized users to view open requisitions and requisition history, and drill down to requisition details, approval status, purchase orders, invoices, and receipts. |
| Finance            | Purchasing    | Requisitions     | General      | Ability to set up and maintain the attributes of a goods/service requisition.   |
| Finance            | Purchasing    | Requisitions     | General      | Ability to use prior requisitions to create a new one.  |
| Finance            | Purchasing    | Requisitions     | General      | Ability to modify an existing requisition.  |
| Finance            | Purchasing    | Requisitions     | General      | Ability to delete an existing requisition prior to routing.   |
| Finance            | Purchasing    | Requisitions     | General      | Ability to collect basic requisition data necessary to create a purchase order.   |
| Finance            | Purchasing    | Requisitions     | General      | Ability to enter account numbers by line item.  |
| Finance            | Purchasing    | Requisitions     | General      | Ability to validate account numbers associated with a requisition line item.  |
| Finance            | Purchasing    | Requisitions     | General      | Ability to verify that funds are available.   |
| Finance            | Purchasing    | Requisitions     | General      | Provides a comment capability to allow recording of unique specifications, conditions, and other items during the requisition process.                                      |
| Finance            | Purchasing    | Requisitions     | General      | Ability to provide drop down list on standard unit types.   |
| Finance            | Purchasing    | Requisitions     | General      | Ability to use multiple criteria to evaluate requisition work flow (approvals and insufficient funds).  |
| Finance            | Purchasing    | Requisitions     | General      | Provides document history retrieval online, linking requisitions to purchase orders.  |
| Finance            | Purchasing    | Requisitions     | General      | Ability to enter account numbers by requisition.  |
| Finance            | Purchasing    | Requisitions     | General      | Allows online requisition approval at multiple (sequential and/or hierarchical) levels with capacity to "trace" current location.   |
| Finance            | Purchasing    | Requisitions     | General      | Ability to obtain electronic approval of a goods/service request and the expenditure of funds.  |
| Finance            | Purchasing    | Requisitions     | General      | Ability to trigger email for override approval when there are insufficient funds.   |
| Finance            | Purchasing    | Requisitions     | General      | Ability for the system to generate automatic requisition numbers.   |
| Finance            | Purchasing    | Requisitions     | General      | Ability to buyers to see historic log of requisitions turned to Purchase orders, or returned to departments and any notes why.  |
| Finance            | Purchasing    | Requisitions     | General      | Provide for an electronic requisition log feature that can show outstanding requisitions.   |
| Finance            | Purchasing    | Requisitions     | General      | Ability for end authorized user to place a requisition on hold and later modify it on line prior to submitting for approval.  |
| Finance            | Purchasing    | Requisitions     | General      | Ability to sort requisition line items based on goods and services requested.   |
| Finance            | Purchasing    | Requisitions     | General      | Ability to review open requisition line items providing for various sort options.   |
| Finance            | Purchasing    | Requisitions     | General      | Ability to group requisition line items by commodity.   |

| <u>Requirement</u> | <u>Module</u> | <u>SubModule</u> | <u>Group</u>    | <u>Text</u>  |
|--------------------|---------------|------------------|-----------------|--|
| Finance            | Purchasing    | Requisitions     | General         | Ability to organize requisition line items not yet assigned to a purchase order.   |
| Finance            | Purchasing    | Requisitions     | General         | Ability to verify and update all requisition line item data.   |
| Finance            | Purchasing    | Requisitions     | General         | Ability to identify requisition line items requiring a bid process.  |
| Finance            | Purchasing    | Requisitions     | General         | Ability to select vendor from the vendor file and add vendor data to requisition while in the requisition form.  |
| Finance            | Purchasing    | Requisitions     | General         | Ability to copy a previous requisition/purchase order to a new requisition.  |
| Finance            | Purchasing    | Requisitions     | General         | Allows for requisition entry with edit checks for valid account numbers, budget availability, and authorized user access with ability to override budget.  |
| Finance            | Purchasing    | Requisitions     | General         | Ability to set requisition status to "approved", "cancelled" or "rejected for corrections".  |
| Finance            | Purchasing    | Requisitions     | General         | Ability to automatically calculate quantity, price per unit, and extensions.   |
| Finance            | Purchasing    | Requisitions     | General         | Ability to place any amount over a default amount on hold and send out an email for approval, include available balance on account.  |
| Finance            | Purchasing    | Requisitions     | General         | Allows authorized users to recommend a price.  |
| Finance            | Purchasing    | Requisitions     | General         | Allows authorized users to recommend a vendor.   |
| Finance            | Purchasing    | Requisitions     | General         | Allows authorized users to enter their requests for goods and services online in a decentralized mode.   |
| Finance            | Purchasing    | Requisitions     | Assign to Buyer | Provides for automatic assignment of requisitions to buyers based on commodity.  |
| Finance            | Purchasing    | Requisitions     | Assign to Buyer | Ability to assign a buyer to each requisition line item or a specific group of line items.   |
| Finance            | Purchasing    | Requisitions     | Assign to Buyer | Ability to assign single or multiple requisition line items to a specific buyer.   |
| Finance            | Purchasing    | Requisitions     | Assign to Buyer | Ability to reassign previously assigned requisition line items.  |
| Finance            | Purchasing    | Requisitions     | Assign to Buyer | Ability to prioritize handling of requisitions by date issued.   |
| Finance            | Purchasing    | Purchase Orders  |                 | Ability to pass the approved goods/service requisition to the purchasing function.   |
| Finance            | Purchasing    | Purchase Orders  |                 | Ability to convert requisitions to purchase orders without reentry of data.  |
| Finance            | Purchasing    | Purchase Orders  |                 | Ability to create purchase order from pre-approved requisition line items.   |
| Finance            | Purchasing    | Purchase Orders  |                 | Ability to build a general commodity purchase order from various requisitions.   |
| Finance            | Purchasing    | Purchase Orders  |                 | Ability to separate a single requisition into multiple purchase orders.  |
| Finance            | Purchasing    | Purchase Orders  |                 | Ability to process an approved goods/service request as a formal purchase order.   |
| Finance            | Purchasing    | Purchase Orders  |                 | Allows for consolidation of several requests in a single purchase order.   |
| Finance            | Purchasing    | Purchase Orders  |                 | Ability to attach comments to purchase order.  |
| Finance            | Purchasing    | Purchase Orders  |                 | Ability to attach reference documents to a purchase order.   |
| Finance            | Purchasing    | Purchase Orders  |                 | Ability to use free form boilerplate text when filling out purchase order description.   |
| Finance            | Purchasing    | Purchase Orders  |                 | Ability to print the official purchase order.  |
| Finance            | Purchasing    | Purchase Orders  |                 | Supports multiple purchase order types.  |
| Finance            | Purchasing    | Purchase Orders  |                 | Ability to use standard text codes on purchase orders.   |
| Finance            | Purchasing    | Purchase Orders  |                 | Ability for purchases of non-restricted items less than \$3000 to be automatically turned into purchase orders so that the authorized user may place the order without any approval from Purchasing. |

| <u>Requirement</u> | <u>Module</u> | <u>SubModule</u> | <u>Group</u> | <u>Text</u>   |
|--------------------|---------------|------------------|--------------|---|
| Finance            | Purchasing    | Purchase Orders  |              | Ability for purchases of non-restricted items less than \$3000 to be electronically and automatically routed to any departmental approver that the end authorized user may specify (i.e. their supervisor, business manager, principal investigator). |
| Finance            | Purchasing    | Purchase Orders  |              | Ability for requests to purchase all other items greater than \$3000 to be automatically routed to any approver and to the buyer in Purchasing based on expenditure type.   |
| Finance            | Purchasing    | Purchase Orders  |              | Ability to charge requisitions and purchase orders to multiple accounts, using a different amount for each line item.   |
| Finance            | Purchasing    | Purchase Orders  |              | Ability to allow for standing order to be established for goods or services to be purchased over time, by specifying each item, unit price, and estimated quantity to be purchased during the term of the purchase order (typically one year).        |
| Finance            | Purchasing    | Purchase Orders  |              | Ability to allow for standing order to be established for goods or services to be purchased over time, by specifying only a dollar amount to represent the dollar volume of anticipated purchases during the term of the purchase order.              |
| Finance            | Purchasing    | Purchase Orders  |              | Ability to accept multiple year purchase orders and encumber the appropriate amount in each fiscal year.  |
| Finance            | Purchasing    | Purchase Orders  |              | Ability to have "Confirmation Only - Do Not Duplicate" printed on the purchase order if vendor requires a hard copy purchase order, but initially accepted order via telephone.   |
| Finance            | Purchasing    | Purchase Orders  |              | Ability to select a commodity name and get a list of available on-line vendor catalogs, item master entries, and available inventory items for that commodity.  |
| Finance            | Purchasing    | Purchase Orders  |              | Allows for multiple accounts to be applied to each purchase order line item.  |
| Finance            | Purchasing    | Purchase Orders  |              | Allows for unlimited text to be applied to purchase orders at the header and line item level.   |
| Finance            | Purchasing    | Purchase Orders  |              | Ability to cancel individual purchase order line items.   |
| Finance            | Purchasing    | Purchase Orders  |              | Ability to reorder individual purchase order line items.  |
| Finance            | Purchasing    | Purchase Orders  |              | Ability to modify existing purchase order line items.   |
| Finance            | Purchasing    | Purchase Orders  |              | Ability to add a requisition line item to an existing purchase order.   |
| Finance            | Purchasing    | Purchase Orders  |              | Ability to record and track changes made to issued purchase order line items.   |
| Finance            | Purchasing    | Purchase Orders  |              | Ability to select a different account number distribution for each line item on the purchase order.   |
| Finance            | Purchasing    | Purchase Orders  |              | Ability to modify the purchase order line items with the new accounts/fiscal years.   |
| Finance            | Purchasing    | Purchase Orders  |              | Ability to update outstanding purchase order line items with account numbers in the new fiscal year.  |
| Finance            | Purchasing    | Purchase Orders  |              | Ability to derive price from vendor master agreements.  |
| Finance            | Purchasing    | Purchase Orders  |              | Ability to edit/update a purchase order.  |
| Finance            | Purchasing    | Purchase Orders  |              | Ability to cancel a purchase order in its entirety.   |
| Finance            | Purchasing    | Purchase Orders  |              | Ability to cancel and reorder entire purchase order.  |
| Finance            | Purchasing    | Purchase Orders  |              | Ability to provide an audit trail of changes made to an issued purchase order.  |

| <u>Requirement</u> | <u>Module</u> | <u>SubModule</u> | <u>Group</u> | <u>Text</u>  |
|--------------------|---------------|------------------|--------------|--|
| Finance            | Purchasing    | Purchase Orders  |              | Ability to route purchase order to another office to review and approve the purchase order for special purchase conditions.    |
| Finance            | Purchasing    | Purchase Orders  |              | Ability to set purchase order status: "issued", "canceled" or "rejected for corrections".                                      |
| Finance            | Purchasing    | Purchase Orders  |              | Ability to enforce editing and updating restrictions based on purchase order status.   |
| Finance            | Purchasing    | Purchase Orders  |              | Ability to use global approval process guidelines for purchase orders.   |
| Finance            | Purchasing    | Purchase Orders  |              | Ability to prevent changes to a purchase order that has been issued or is out for approval.                                    |
| Finance            | Purchasing    | Purchase Orders  |              | Ability to process changes to purchase orders without having to reenter purchasing information.                                |
| Finance            | Purchasing    | Purchase Orders  |              | Ability to process change orders against an existing purchase order.   |
| Finance            | Purchasing    | Purchase Orders  |              | Ability for the requestor to be notified that the purchase order has been issued when the purchase order has been created.     |
| Finance            | Purchasing    | Purchase Orders  |              | Ability for the purchase order to indicate whether or not positive notification of receipt is required for the purchase.       |
| Finance            | Purchasing    | Purchase Orders  |              | Ability to track purchase orders from initiator to fulfillment.  |
| Finance            | Purchasing    | Purchase Orders  |              | Ability to track purchases by type regardless of vendor.   |
| Finance            | Purchasing    | Purchase Orders  |              | Ability to track payments on purchase orders.  |
| Finance            | Purchasing    | Purchase Orders  |              | Provide an audit trail on purchase orders.   |
| Finance            | Purchasing    | Purchase Orders  |              | Ability to inquire on a purchase order status by purchase order number, requisition number or invoice number.                  |
| Finance            | Purchasing    | Purchase Orders  |              | Provides ability to identify items ordered, cancelled, received.   |
| Finance            | Purchasing    | Purchase Orders  |              | Provides identify of items paid for.   |
| Finance            | Purchasing    | Purchase Orders  |              | Ability to track assignment of and usage of "small order" purchase orders.   |
| Finance            | Purchasing    | Purchase Orders  |              | Ability to automatically track and categorize line items on purchase orders to an established commodity list numbering system. |
| Finance            | Purchasing    | Purchase Orders  |              | Ability to track carpet, furniture, etc. purchases by building, by style/color, and by year of purchase.                       |
| Finance            | Purchasing    | Purchase Orders  |              | Ability to track the status of a goods/services order.   |
| Finance            | Purchasing    | Purchase Orders  |              | Ability to track purchase orders and payments issued against blanket purchase orders.  |
| Finance            | Purchasing    | Purchase Orders  |              | Provides online inquiry of all open purchase orders by vendor.   |
| Finance            | Purchasing    | Purchase Orders  |              | Provides online inquiry of all open purchase orders by buyer.  |
| Finance            | Purchasing    | Purchase Orders  |              | Provides online inquiry of all open purchase orders by fund.   |
| Finance            | Purchasing    | Purchase Orders  |              | Provides online inquiry of all open purchase orders by organization.   |
| Finance            | Purchasing    | Purchase Orders  |              | Provides online inquiry of all open purchase orders by account.  |
| Finance            | Purchasing    | Purchase Orders  |              | Allows buyers to override institution specified or system-generated prices.  |
| Finance            | Purchasing    | Purchase Orders  |              | Allows buyers to override institution specified or system-generated vendors.   |
| Finance            | Purchasing    | Purchase Orders  |              | Supports institution defined types such as multiple vendor purchase orders.  |
| Finance            | Purchasing    | Purchase Orders  |              | Ability to allow institutional rules to control access to purchase order changes.  |
| Finance            | Purchasing    | Purchase Orders  |              | Ability to enter fields from institution defined data tables.  |
| Finance            | Purchasing    | Purchase Orders  |              | Ability to route and approve documents electronically.   |
| Finance            | Purchasing    | Purchase Orders  |              | Provides full sufficient funds checking.   |

| <u>Requirement</u> | <u>Module</u> | <u>SubModule</u>     | <u>Group</u> | <u>Text</u>  |
|--------------------|---------------|----------------------|--------------|--|
| Finance            | Purchasing    | Purchase Orders      |              | Ability to charge budgeting accounts at the purchase order document level.   |
| Finance            | Purchasing    | Purchase Orders      |              | Provides tables to store descriptive organizational information that is automatically included.  |
| Finance            | Purchasing    | Purchase Orders      |              | Ability to set a default for ship-to address.  |
| Finance            | Purchasing    | Purchase Orders      |              | Allows for multiple types of orders, e.g. outside, warehouse, et cetera.   |
| Finance            | Purchasing    | Purchase Orders      |              | Ability to provide drop down box of delivery terms.  |
| Finance            | Purchasing    | Purchase Orders      |              | Ability to print an official change order.   |
| Finance            | Purchasing    | Purchase Orders      |              | Ability to include blanket, emergency and regular purchase orders.   |
| Finance            | Purchasing    | Purchase Orders      |              | Ability to establish and maintain master contracts.  |
| Finance            | Purchasing    | Purchase Orders      |              | Allows the authorized user to define specific search criteria while performing an online compound search (e.g., by vendor AND account code). |
| Finance            | Purchasing    | Purchase Orders      |              | Ability to create blanket orders with limits on specific amounts or dates.   |
| Finance            | Purchasing    | Purchase Orders      |              | Maintains "bill to" address for inclusion on purchase orders.  |
| Finance            | Purchasing    | Purchase Orders      |              | Supports the limiting of activity by specified type of goods/services.   |
| Finance            | Purchasing    | Purchase Orders      |              | Ability to handle multiple freight/shipping charges for the same purchase order.   |
| Finance            | Purchasing    | Purchase Orders      |              | Supports purchase order review and approval before issuance/printing.  |
| Finance            | Purchasing    | Purchase Orders      |              | Supports purchase order entry with security checks for valid account numbers, budget availability, and authorized user access.               |
| Finance            | Purchasing    | Purchase Orders      |              | Ability to match requested goods/services to qualified vendors.  |
| Finance            | Purchasing    | Purchase Orders      |              | Ability to select the best matched vendor.   |
| Finance            | Purchasing    | Purchase Orders      |              | Ability to catalog items purchased by vendor.  |
| Finance            | Purchasing    | Purchase Orders      |              | Ability to release the unpaid-for quantities on a purchase order in the old year.  |
| Finance            | Purchasing    | Purchase Orders      |              | Ability to "roll" each account on the purchase order to the new fiscal year.   |
| Finance            | Purchasing    | Purchase Orders      |              | Ability to validate that the accounts exist, are approved and are active in the new fiscal year.   |
| Finance            | Purchasing    | Purchase Orders      |              | Ability to include line items with negative amounts allowing for documentation of credits against the purchase.                              |
| Finance            | Purchasing    | Encumbrance          |              | Allows for the immediate encumbrance of funds at the requisition level.  |
| Finance            | Purchasing    | Encumbrances         |              | Allows for the immediate encumbrance of funds at the purchase order level.   |
| Finance            | Purchasing    | Encumbrances         |              | Allows partial or complete encumbrance changes.  |
| Finance            | Purchasing    | Encumbrances         |              | Provides automatic online posting of the encumbrance transaction to the general ledger.  |
| Finance            | Purchasing    | Encumbrances         |              | Ability to identify when increases to encumbrances on purchase orders exceed the amount available in the budget.                             |
| Finance            | Purchasing    | Encumbrances         |              | Ability to encumber funds for the purchase order in the new fiscal year.   |
| Finance            | Purchasing    | Encumbrances         |              | Ability to create the necessary encumbrance accounting adjustments automatically from changes to purchase order.                             |
| Finance            | Purchasing    | Purchasing Reporting |              | Provides a report of open purchase orders sorted by vendor.  |
| Finance            | Purchasing    | Purchasing Reporting |              | Allows for the reporting of items by commodity.  |
| Finance            | Purchasing    | Purchasing Reporting |              | Ability to print management reports relative to procurement card purchasing.   |
| Finance            | Purchasing    | Purchasing Reporting |              | Provides online reporting of purchase orders issued and goods received.  |
| Finance            | Purchasing    | Purchasing Reporting |              | Provides for on-demand printing of the purchase order.   |

| <u>Requirement</u> | <u>Module</u> | <u>SubModule</u>     | <u>Group</u> | <u>Text</u>   |
|--------------------|---------------|----------------------|--------------|---|
| Finance            | Purchasing    | Purchasing Reporting |              | Ability to print a duplicate purchase order.  |
| Finance            | Purchasing    | Purchasing Reporting |              | Allows for the authorized user to define specific search criteria while performing an online inquiry.   |
| Finance            | Purchasing    | Purchasing Reporting |              | Provides for online faxing of bids in support of the RFP and bidding process.   |
| Finance            | Purchasing    | Purchasing Reporting |              | Provides online inquiry of all open purchase orders by due date.  |
| Finance            | Purchasing    | Purchasing Reporting |              | Provides standard reports and inquiry screens for search capability with user-defined parameters.   |
| Finance            | Purchasing    | Purchasing Reporting |              | Provides standard reports and inquiry screens for requisitions in process/approval.   |
| Finance            | Purchasing    | Purchasing Reporting |              | Provides standard reports and inquiry screens for requisitions transferred to purchase orders.  |
| Finance            | Purchasing    | Purchasing Reporting |              | Provides standard reports and inquiry screens for purchase orders in process.   |
| Finance            | Purchasing    | Purchasing Reporting |              | Provides standard reports and inquiry screens for purchase order's out/goods not received.  |
| Finance            | Purchasing    | Purchasing Reporting |              | Provides standard reports and inquiry screens for purchase order's out/goods received/invoice not received.   |
| Finance            | Purchasing    | Purchasing Reporting |              | Provides standard reports and inquiry screens for total dollars ordered by vendor.  |
| Finance            | Purchasing    | Purchasing Reporting |              | Provides online inquiry of all open purchase orders by program.   |
| Finance            | Purchasing    | Purchasing Reporting |              | Ability to display the print status of a purchase order/change order.   |
| Finance            | Purchasing    | Purchasing Reporting |              | Provides reports that identify purchase order activity on minority vendors.   |
| Finance            | Purchasing    | Purchasing Reporting |              | Ability to track the vendor's average price for routinely ordered items.  |
| Finance            | Purchasing    | Bidding              |              | Maintains a prospective bidder's list.  |
| Finance            | Purchasing    | Bidding              |              | Supports the RFP and bidding process.   |
| Finance            | Purchasing    | Bidding              |              | Ability to record evaluation results of proposals.  |
| Finance            | Purchasing    | Bidding              |              | Ability to support and solicit bid requests from vendors.   |
| Finance            | Purchasing    | Bidding              |              | Ability to maintain bidder qualification data.  |
| Finance            | Purchasing    | Bidding              |              | Ability to initiate requests for bids, record bids sent out, record bids received, and maintain all information necessary for bid processing.   |
| Finance            | Purchasing    | Bidding              |              | Ability to maintain bidders' lists, product and service categories by vendor.   |
| Finance            | Purchasing    | Bidding              |              | Ability to maintain a record of each quote.   |
| Finance            | Purchasing    | Bidding              |              | Ability to maintain historical record of quotes by PO and vendor  |
| Finance            | Purchasing    | Bidding              |              | Ability to record Information For Bidding (IFB) specifications for use in the IFB document and later for bid tabulation.  |
| Finance            | Purchasing    | Bidding              |              | Ability to have buyer create purchase order by copying desired information from the IFB or the vendor's bid.  |
| Finance            | Purchasing    | Bidding              |              | Ability to have buyer add or delete vendors from prospective bidders list as appropriate.   |
| Finance            | Purchasing    | Bidding              |              | Ability to e-mail IFB's from system directly to vendors to provide necessary specifications and reference a web site at which more detailed information may be located (i.e. photographs, other University websites). |
| Finance            | Purchasing    | Bidding              |              | Ability to fax the IFB to vendors.  |

| <u>Requirement</u> | <u>Module</u> | <u>SubModule</u> | <u>Group</u> | <u>Text</u>  |
|--------------------|---------------|------------------|--------------|--|
| Finance            | Purchasing    | Bidding          |              | Ability to have vendors who wish to respond to the IFB e-mail responses to the University by the closing date and time, as long as the vendor has the ability to provide an electronic signature on the IFB.             |
| Finance            | Purchasing    | Bidding          |              | Ability to tabulate bids using the tabulation sheet which was automatically created using the IFB specifications.  |
| Finance            | Purchasing    | Bidding          |              | Ability to electronically forward bid tabulation sheet and electronic bids received to end user department for review.   |
| Finance            | Purchasing    | Bidding          |              | Ability to scan bids received in paper format to allow end user department to review on-line.  |
| Finance            | Purchasing    | Bidding          |              | Ability to add or delete vendors from prospective bidders list as appropriate.   |
| Finance            | Purchasing    | Bidding          |              | Ability to create purchase order by copying desired information from the RFP or the vendor's proposal.   |
| Finance            | Purchasing    | Bidding          |              | Ability to complete the "Request to Use Competitive Negotiation Form" on-line (including obtaining all signatures) and forwards to the Director for on-line approval.  |
| Finance            | Purchasing    | Bidding          |              | Ability to record selection committee members and send Statements of Understanding via e-mail for each selection committee member to sign.   |
| Finance            | Purchasing    | Bidding          |              | Ability to initiate search by commodity in order to identify vendors that provide the required good or service. Ability to have the search result in an electronic list of vendors, contact names, and e-mail addresses. |
| Finance            | Purchasing    | Bidding          |              | Ability to e-mail RFP's from system directly to vendors to provide necessary specifications and reference a web site to which more detailed information may be located (i.e. photographs, other University websites).    |
| Finance            | Purchasing    | Bidding          |              | Ability for vendors who wish to respond to the RFP to e-mail responses to the University by the closing date and time, as long as the vendor has the ability to provide an electronic signature on the RFP.              |
| Finance            | Purchasing    | Bidding          |              | Ability to issues the "Notice of Award" letter via e-mail to all responding vendors and update web site to announce which vendor received the award.   |
| Finance            | Purchasing    | Receiving        | General      | Ability to vary the receiving process by PO type.  |
| Finance            | Purchasing    | Receiving        | General      | Ability to include a "receive all" process at the PO level.  |
| Finance            | Purchasing    | Receiving        | General      | Ability to support two or three way matching methodology.  |
| Finance            | Purchasing    | Receiving        | General      | Ability to record inspection results of goods received.  |
| Finance            | Purchasing    | Receiving        | General      | Ability to track items received.   |
| Finance            | Purchasing    | Receiving        | General      | Ability for the receipt of goods and services process to be centralized and/or decentralized.  |
| Finance            | Purchasing    | Receiving        | General      | Ability to automatically update Accounts Payable with the receipt of goods, including the associated purchase order number.  |
| Finance            | Purchasing    | Receiving        | General      | Ability to allow only the receiver to open a general commodity purchase order.   |
| Finance            | Purchasing    | Receiving        | General      | Ability to record receiver's user id on each receipt for a general commodity order.  |
| Finance            | Purchasing    | Receiving        | General      | Ability to control the information that the receiver can enter for a general commodity order.  |
| Finance            | Purchasing    | Receiving        | General      | Ability to populate grid in ascending order by line number. Receiving document is a mirror image of the purchase order.  |

| <b><u>Requirement</u></b> | <b><u>Module</u></b> | <b><u>SubModule</u></b> | <b><u>Group</u></b> | <b><u>Text</u></b>   |
|---------------------------|----------------------|-------------------------|---------------------|--|
| Finance                   | Purchasing           | Receiving               | General             | Provides for the receipt of goods and services to be recorded online by purchase order number.                                     |
| Finance                   | Purchasing           | Receiving               | General             | Ability to specify a tolerance for receipt of goods against a purchase order.  |
| Finance                   | Purchasing           | Receiving               | General             | Provides a three-way match of the receipt of goods, the purchase order and the invoice.  |
| Finance                   | Purchasing           | Receiving               | General             | Ability to display warning message when quantity received is greater than the quantity ordered.                                    |
| Finance                   | Purchasing           | Receiving               | General             | Ability to validate three way match when the invoice is received.  |
| Finance                   | Purchasing           | Receiving               | General             | Ability to support the 3 way match with tolerance as well as the 3 way match without tolerance.                                    |
| Finance                   | Purchasing           | Receiving               | General             | Ability to require that the invoice and purchase order amounts must match on a quote.  |
| Finance                   | Purchasing           | Receiving               | General             | Ability to search for an issued purchase order by number, requisition number, cost center, name of orderer, vendor name or number. |
| Finance                   | Purchasing           | Receiving               | General             | Ability to allow operating department to look up their own purchase order items based on account number security.                  |
| Finance                   | Purchasing           | Receiving               | General             | Ability to set rule to send email to check on late or overdue item.  |
| Finance                   | Purchasing           | Receiving               | General             | Ability to send an email to the requestor when the item is received.   |
| Finance                   | Purchasing           | Receiving               | General             | Ability to set rule to send email to approver when overdue.  |
| Finance                   | Purchasing           | Receiving               | General             | Provides a bar coded tracking system from incoming delivery point to end user.   |
| Finance                   | Purchasing           | Receiving               | General             | Ability to create rule to select purchase order items that need inventory.   |
| Finance                   | Purchasing           | Receiving               | General             | Ability to export inventory information to Fixed Asset System.   |
| Finance                   | Purchasing           | Receiving               | General             | Ability to attach free form comments for late/overdue shipments.   |
| Finance                   | Purchasing           | Receiving               | General             | Ability to attach receiving notes to the purchase order.   |
| Finance                   | Purchasing           | Receiving               | General             | Ability to designate items to be capitalized with an immediate update to Fixed Assets.   |
| Finance                   | Purchasing           | Receiving               | General             | Allows prepaid goods to be recorded as "received" until the purchase order status is "closed".                                     |
| Finance                   | Purchasing           | Receiving               | General             | Ability to add recipient name to receiving line and purchase order line.   |
| Finance                   | Purchasing           | Receiving               | General             | Ability to note purchase order status of "issued", "partially received" or "received" (not paid).                                  |
| Finance                   | Purchasing           | Receiving               | General             | Ability to select received but not paid purchase order line items and indicate which line items to pay and which to ignore.        |
| Finance                   | Purchasing           | Receiving               | General             | Ability to initiate payment of received purchase order line items.   |
| Finance                   | Purchasing           | Receiving               | Returns             | Ability to track the recording of goods returned to the vendor.  |
| Finance                   | Purchasing           | Receiving               | Returns             | Ability to allow receiver to receive/return only if payment has not been made.   |
| Finance                   | Purchasing           | Receiving               | Returns             | Ability to establish processing rules for receipts and returns of a general commodity order.                                       |
| Finance                   | Purchasing           | Receiving               | Returns             | Ability to establish rules for updating receipts and returns for a general commodity order.  |
| Finance                   | Purchasing           | Receiving               | Reporting           | Ability to generate receiving reports from department.   |
| Finance                   | Purchasing           | Receiving               | Reporting           | Ability to generate receiving reports from central office.   |
| Finance                   | Purchasing           | Receiving               | Reporting           | Ability to print a copy of the purchase order, receiving report/ticket, manifest and an aging report.                              |

| <u>Requirement</u> | <u>Module</u>    | <u>SubModule</u> | <u>Group</u> | <u>Text</u>   |
|--------------------|------------------|------------------|--------------|---|
| Finance            | Accounts Payable | General          |              | Accounts payable account transactions are immediately posted to the general ledger, in real-time.                                     |
| Finance            | Accounts Payable | General          |              | Ability to support accrual accounting for accounts payable function.  |
| Finance            | Accounts Payable | General          |              | Ability to identify capitalized items as invoices are processed.  |
| Finance            | Accounts Payable | General          |              | Ability to prevent duplicate entry of invoices.   |
| Finance            | Accounts Payable | General          |              | Ability to attach notes to invoice.   |
| Finance            | Accounts Payable | General          |              | Ability to match online invoice with a variance or tolerance level verification for sales tax and shipping.                           |
| Finance            | Accounts Payable | General          |              | Ability to manage the payment of invoices.  |
| Finance            | Accounts Payable | General          |              | Ability to automatically pay due invoices by specified date with exceptions.  |
| Finance            | Accounts Payable | General          |              | Ability to automatically liquidate associated encumbrances as invoices are processed.   |
| Finance            | Accounts Payable | General          |              | Ability to hold payment on invoices for dispute resolution.   |
| Finance            | Accounts Payable | General          |              | Provides online and batched entry of invoices.  |
| Finance            | Accounts Payable | General          |              | Ability to hold or cancel invoices.   |
| Finance            | Accounts Payable | General          |              | Ability to add payment information to invoice record when paid.   |
| Finance            | Accounts Payable | General          |              | Ability for PO to close automatically after all items have been received and paid.  |
| Finance            | Accounts Payable | General          |              | Ability to scan Invoices from the Vendors.  |
| Finance            | Accounts Payable | General          |              | Ability to set up recurring payables by entering a total amount, start and end dates and cycle.                                       |
| Finance            | Accounts Payable | General          |              | Ability to create the recurring payable schedule automatically.   |
| Finance            | Accounts Payable | General          |              | Ability to optionally override each recurring payment.  |
| Finance            | Accounts Payable | General          |              | Ability to manually enter authorized user's own payable schedule as an option.  |
| Finance            | Accounts Payable | General          |              | Ability to enter each component of the payment and automatically calculate the total.   |
| Finance            | Accounts Payable | General          |              | Ability to spread payment over the line items as appropriate e.g. discount, sales tax, freight.                                       |
| Finance            | Accounts Payable | General          |              | Ability to restrict payment to employees for consulting and contracting services.   |
| Finance            | Accounts Payable | General          |              | Ability to automatically calculate discounts and due dates based on vendor terms.   |
| Finance            | Accounts Payable | General          |              | Ability to deduct and report the institution defined withholding tax percentage when tax identification (SSN or FIN) is not provided. |
| Finance            | Accounts Payable | General          |              | Ability to restrict the limit on user defined payment levels where the payment is greater than the encumbrance amount.                |
| Finance            | Accounts Payable | General          |              | Ability to calculate multiple taxes, as appropriate, by item based on institution defined rules.                                      |
| Finance            | Accounts Payable | General          |              | Allows for the addition of miscellaneous charges or credits.  |
| Finance            | Accounts Payable | General          |              | Ability to handle currency conversion for foreign purchases.  |
| Finance            | Accounts Payable | General          |              | Ability to handle partial payments.   |
| Finance            | Accounts Payable | General          |              | Ability to update line item status as either partially or fully paid for approved payment amounts.                                    |
| Finance            | Accounts Payable | General          |              | Ability to automatically display discount amounts based upon vendor terms.  |
| Finance            | Accounts Payable | General          |              | Ability to cross reference a requisition, a purchase order and a payment.   |

| <u>Requirement</u> | <u>Module</u>    | <u>SubModule</u> | <u>Group</u> | <u>Text</u>  |
|--------------------|------------------|------------------|--------------|--|
| Finance            | Accounts Payable | General          |              | Ability to store credit memos for each vendor.   |
| Finance            | Accounts Payable | General          |              | Ability to prevent duplicate entry of credit memos (paid, unpaid and in open batches.)                                       |
| Finance            | Accounts Payable | General          |              | Ability to apply credit memos against Invoices.  |
| Finance            | Accounts Payable | General          |              | Ability to create general ledger transactions automatically for approved payables.   |
| Finance            | Accounts Payable | General          |              | Supports voucher creation/modification without purchase orders.  |
| Finance            | Accounts Payable | General          |              | Ability to process mass input in the form of a batch update routine.   |
| Finance            | Accounts Payable | General          |              | Ability to record the details of a request for payment.  |
| Finance            | Accounts Payable | General          |              | Ability to allow entry to a non-current open period.   |
| Finance            | Accounts Payable | General          |              | Ability to auto calculate invoice due date based on default.   |
| Finance            | Accounts Payable | General          |              | Ability to check purchase order status and automatically update with payable data.   |
| Finance            | Accounts Payable | General          |              | Ability to delete an unapproved payable.   |
| Finance            | Accounts Payable | General          |              | Ability to receive vendor invoices electronically including EDI and XML.   |
| Finance            | Accounts Payable | General          |              | Ability to enter the date invoice received information.  |
| Finance            | Accounts Payable | General          |              | Ability to interactively validate account number and available budget.   |
| Finance            | Accounts Payable | General          |              | Provides document history online from source document through general ledger.  |
| Finance            | Accounts Payable | General          |              | Ability to automatically check individuals requiring payment (non-refund) against employee files for 1099 tracking.          |
| Finance            | Accounts Payable | General          |              | Provides an analysis of cash requirements by due date.   |
| Finance            | Accounts Payable | General          |              | Ability to account for advances.   |
| Finance            | Accounts Payable | General          |              | Supports voucher creation/modification from purchase orders.   |
| Finance            | Accounts Payable | General          |              | Ability to access taxpayer name or vendor ID.  |
| Finance            | Accounts Payable | General          |              | Ability to assign unique reference number to each transaction.   |
| Finance            | Accounts Payable | General          |              | Ability for system to allow checks to be sorted by various types and pay groups (hold for pick up, attachment required,...). |
| Finance            | Accounts Payable | General          |              | Ability to assign same purchase order number to multiple checks and invoices for split shipments with partial payments.      |
| Finance            | Accounts Payable | General          |              | Ability to enter an AP debit memo prior to vendor issuing a credit memo for event.   |
| Finance            | Accounts Payable | General          |              | Provide a table of matched debit and credit memos and reports to follow up with vendor                                       |
| Finance            | Accounts Payable | Check Writing    |              | Ability to interface Accounts Payable to Certex Certichex 32 module for check writing.                                       |
| Finance            | Accounts Payable | Check Writing    |              | Ability to generate payable checks even if the due date is passed or is a future date.                                       |
| Finance            | Accounts Payable | Check Writing    |              | Ability to process payments from multiple funds on a single check.   |
| Finance            | Accounts Payable | Check Writing    |              | Ability to reduce the cash balance only when the check is printed.   |
| Finance            | Accounts Payable | Check Writing    |              | Ability to hold printing of checks and generate correspondence to vendors to obtain FIN or SSN.                              |
| Finance            | Accounts Payable | Check Writing    |              | Ability to suppress printing zero or negative amounts on checks.   |
| Finance            | Accounts Payable | Check Writing    |              | Ability to print designated checks at the front of a check run.  |
| Finance            | Accounts Payable | Check Writing    |              | Ability to consolidate all transactions in a single check with payment itemization in the remittance advice.                 |
| Finance            | Accounts Payable | Check Writing    |              | Ability to reprint a range of checks.  |
| Finance            | Accounts Payable | Check Writing    |              | Ability to automatically generate checks based on due date.  |

| <u>Requirement</u> | <u>Module</u>    | <u>SubModule</u>    | <u>Group</u> | <u>Text</u>  |
|--------------------|------------------|---------------------|--------------|--|
| Finance            | Accounts Payable | Check Writing       |              | Ability to automatically generate checks based on voucher type.  |
| Finance            | Accounts Payable | Check Writing       |              | Ability to automatically generate checks based on discount date.   |
| Finance            | Accounts Payable | Check Writing       |              | Ability to automatically generate checks based on vendor.  |
| Finance            | Accounts Payable | Check Writing       |              | Ability to automatically generate checks based on vendor classification or type.   |
| Finance            | Accounts Payable | Check Writing       |              | Ability to reprint a check in the event of printer malfunction.  |
| Finance            | Accounts Payable | Check Writing       |              | Ability to restart a check run at any point in the process.  |
| Finance            | Accounts Payable | Check Writing       |              | Provides for the definition of grouping rules by vendor to produce one check per invoice.                                  |
| Finance            | Accounts Payable | Check Writing       |              | Provides for the definition of grouping rules by vendor to produce one check per vendor.                                   |
| Finance            | Accounts Payable | Check Writing       |              | Provides for the issuance of "on-demand" checks.   |
| Finance            | Accounts Payable | Check Writing       |              | Provides an "on-demand" check process that automatically updates the general ledger.                                       |
| Finance            | Accounts Payable | Check Writing       |              | Provides an "on-demand" check process that automatically liquidates associated encumbrances.                               |
| Finance            | Accounts Payable | Check Writing       |              | Ability to automatically produce remittance advices and electronic transfer remittance advices.                            |
| Finance            | Accounts Payable | Check Writing       |              | Ability to distribute payment advices electronically.  |
| Finance            | Accounts Payable | Check Writing       |              | Ability to update the invoice status to "paid" once the check number has been assigned.                                    |
| Finance            | Accounts Payable | Check Writing       |              | Ability to trigger a general ledger transaction when the check number is entered.  |
| Finance            | Accounts Payable | Check Writing       |              | Ability to pay vendor invoices by EDI, ACH, EFT.   |
| Finance            | Accounts Payable | Check Writing       |              | Ability to append remittance advice information to the ACH file.   |
| Finance            | Accounts Payable | Check Writing       |              | Ability to enter messages on check stubs (for example explanations of under payment due to non receipt of goods invoiced). |
| Finance            | Accounts Payable | Void Checks         |              | Ability to record void checks online with automatic generation of the appropriate accounting entries..                     |
| Finance            | Accounts Payable | Void Checks         |              | Ability to void a check with automatic reversal of expense entries and option to restore encumbrance.                      |
| Finance            | Accounts Payable | Void Checks         |              | Ability to reverse the general ledger transaction if a stop payment or cancelled check is entered.                         |
| Finance            | Accounts Payable | Void Checks         |              | Ability to reinstate a payable to "approved" if a stop payment or cancelled check is entered.                              |
| Finance            | Accounts Payable | Bank Reconciliation |              | Supports check reconciliation by producing outstanding checklist with ability to look up check online for status.          |
| Finance            | Accounts Payable | Bank Reconciliation |              | Supports check reconciliation by producing reconciled and exception reports.   |
| Finance            | Accounts Payable | Bank Reconciliation |              | Supports check reconciliation by marking as reconciled.  |
| Finance            | Accounts Payable | Bank Reconciliation |              | Supports check reconciliation by comparing check number and dollars.   |
| Finance            | Accounts Payable | Bank Reconciliation |              | Supports check reconciliation by electronic file exchange.   |
| Finance            | Accounts Payable | Bank Reconciliation |              | Provides for bank reconciliation for multiple bank accounts .  |
| Finance            | Accounts Payable | AP Reporting        |              | Ability to print payment voucher.  |
| Finance            | Accounts Payable | AP Reporting        |              | Ability to access payment data by entering a document ID such as a purchase order or requisition.                          |
| Finance            | Accounts Payable | AP Reporting        |              | Ability to provide history detail by user defined criteria including account, department and division.                     |

| <u>Requirement</u> | <u>Module</u>    | <u>SubModule</u> | <u>Group</u> | <u>Text</u>  |
|--------------------|------------------|------------------|--------------|--|
| Finance            | Accounts Payable | AP Reporting     |              | Ability to see balance remaining on purchase orders.   |
| Finance            | Accounts Payable | AP Reporting     |              | Ability to report all payments made for a specific time or type of payable.  |
| Finance            | Accounts Payable | AP Reporting     |              | Ability to report accounts payable activity on-line.   |
| Finance            | Accounts Payable | AP Reporting     |              | Ability to report year-to-date and pending payments for all vendors: online and hard copy.                               |
| Finance            | Accounts Payable | AP Reporting     |              | Ability to report the amount of business conducted with MBEs and WBEs.   |
| Finance            | Accounts Payable | AP Reporting     |              | Ability to report taxes withheld from vendors to be paid to the government.  |
| Finance            | Accounts Payable | AP Reporting     |              | Ability to report taxes due to be paid to federal, state, county and local agencies.                                     |
| Finance            | Accounts Payable | AP Reporting     |              | Provides reports for outstanding invoices by user defined criteria.  |
| Finance            | Accounts Payable | AP Reporting     |              | Provides reports for total dollars paid to a vendor with option to select by specific account and/or time period.        |
| Finance            | Accounts Payable | AP Reporting     |              | Ability to report discount amounts based upon vendor selection.  |
| Finance            | Accounts Payable | 1099 Reporting   |              | Ability to print 1099 data on 1099 forms.  |
| Finance            | Accounts Payable | 1099 Reporting   |              | Ability to electronically file 1099 forms.   |
| Finance            | Accounts Payable | 1099 Reporting   |              | Ability to provide a 1099 report of year-to-date payment totals made to specified vendors.                               |
| Finance            | Accounts Payable | 1099 Reporting   |              | Ability to track and report 1099.  |
| Finance            | Budgeting        | General          |              | Provides Excel formats for budget analysis, download, and upload.  |
| Finance            | Budgeting        | General          |              | Allows budget periods to be defined as monthly for specified organizational units.                                       |
| Finance            | Budgeting        | General          |              | Allows budget periods to be defined as monthly within begin/end dates of grant.  |
| Finance            | Budgeting        | General          |              | Allows budget periods to be defined as calendar year begin/end dates of grant.   |
| Finance            | Budgeting        | General          |              | Ability to set budget limits at various levels, e.g. department, campus, site, district.                                 |
| Finance            | Budgeting        | General          |              | Ability to copy from prior year(s) budget phases.  |
| Finance            | Budgeting        | General          |              | Ability to copy from prior year(s) actual budget.  |
| Finance            | Budgeting        | General          |              | Ability to increase/decrease budget by a given percentage.   |
| Finance            | Budgeting        | General          |              | Ability to setup budget control accounts from prior fiscal year.   |
| Finance            | Budgeting        | General          |              | Ability to roll budget accounts from prior fiscal year.  |
| Finance            | Budgeting        | General          |              | Ability to compare prior and current year-to-date actual amounts.  |
| Finance            | Budgeting        | General          |              | Ability to budget each individual account to its lowest level of detail.   |
| Finance            | Budgeting        | General          |              | Ability to roll over selected budget accounts from prior fiscal year.  |
| Finance            | Budgeting        | General          |              | Allows monthly, quarterly and annual budgeting at various levels within an organization.                                 |
| Finance            | Budgeting        | General          |              | Ability to handle and report both fiscal year and inception-to-date budgeting.   |
| Finance            | Budgeting        | General          |              | Ability to carryover unused budgets for responsibility centers.  |
| Finance            | Budgeting        | General          |              | Ability to automatically roll prior year encumbrances to current budget year.  |
| Finance            | Budgeting        | General          |              | Ability to automatically calculate fringe benefits budget amounts using fringe benefit rates by employee classification. |
| Finance            | Budgeting        | General          |              | Ability to allow budget worksheets to be saved even though incomplete.   |
| Finance            | Budgeting        | General          |              | Ability to create budget summary levels for grants and special programs.   |

| <u>Requirement</u> | <u>Module</u> | <u>SubModule</u> | <u>Group</u> | <u>Text</u>  |
|--------------------|---------------|------------------|--------------|--|
| Finance            | Budgeting     | General          |              | Ability to include supplemental budget information such as Fte or other units of measure.  |
| Finance            | Budgeting     | General          |              | Ability to assign budget authority to individuals by role.   |
| Finance            | Budgeting     | General          |              | Supports program budgeting that matches the same hierarchical program structure established in the chart of accounts.                        |
| Finance            | Budgeting     | General          |              | Ability to budget and encumber fringe benefits separately from salary amounts.   |
| Finance            | Budgeting     | General          |              | Supports the definition of a line item budget for selected items such as equipment expenditures.   |
| Finance            | Budgeting     | General          |              | Provides for a pool budget for a class of expenditures.  |
| Finance            | Budgeting     | General          |              | Ability to decentralize budget development based on percentage adjustments to prior year budgets provided by the Budget office for approval. |
| Finance            | Budgeting     | General          |              | Ability to assign an unlimited number of institution defined category codes to budget line items.  |
| Finance            | Budgeting     | General          |              | Ability to support budgeting that matches the same hierarchical program structure as established in Chart of Accounts.                       |
| Finance            | Budgeting     | General          |              | Ability to provide budget development functions via integrated workflow tool.  |
| Finance            | Budgeting     | General          |              | Ability to distribute budget information including workbooks and instructions via e-mail or Web.   |
| Finance            | Budgeting     | General          |              | Ability to provide a process to apply inflation factors to a budget model.   |
| Finance            | Budgeting     | General          |              | Ability to develop capital budget with multiple funding sources and have ability to summarize on single screen.                              |
| Finance            | Budgeting     | General          |              | Ability to consolidate revenue, operating and capital budget versions.   |
| Finance            | Budgeting     | General          |              | Ability to support multiple budget types including revenue budgets, organization budgets, appropriations, allotment, grants etc.             |
| Finance            | Budgeting     | General          |              | Ability to allot funds for each budget period and throughout the budget/fiscal year.   |
| Finance            | Budgeting     | General          |              | Ability to budget non-financial data as defined by the institution.  |
| Finance            | Budgeting     | General          |              | Ability to identify revenue sources.   |
| Finance            | Budgeting     | General          |              | Ability to develop operating budgets.  |
| Finance            | Budgeting     | General          |              | Ability to maintain separate budget and fiscal years.  |
| Finance            | Budgeting     | General          |              | Allows for preparation of tentative (proposed) budget.   |
| Finance            | Budgeting     | General          |              | Ability to collect budget proposals from departments on line.  |
| Finance            | Budgeting     | General          |              | Ability to update the working budget.  |
| Finance            | Budgeting     | General          |              | Ability to display a running total of dollars remaining in the budget.   |
| Finance            | Budgeting     | General          |              | Maintains proposed budget online.  |
| Finance            | Budgeting     | General          |              | Ability to attach notes to the budget during the budget development cycle at any level down to account.                                      |
| Finance            | Budgeting     | General          |              | Allows for partial rolls of the budget prior to final approval of a complete fiscal year budget.   |
| Finance            | Budgeting     | General          |              | Ability to define formulas for calculating budgets and feeding other formulas.   |
| Finance            | Budgeting     | General          |              | Ability to electronically attach documents justifying budget submissions.  |
| Finance            | Budgeting     | General          |              | Ability to provide an approval hierarchy for initiating and changing budgets.  |

| <u>Requirement</u> | <u>Module</u> | <u>SubModule</u> | <u>Group</u> | <u>Text</u>   |
|--------------------|---------------|------------------|--------------|---|
| Finance            | Budgeting     | General          |              | Allows authorized users to electronically route the transfer to approval levels and to the budget office for electronic approval. |
| Finance            | Budgeting     | General          |              | Ability to approve a transfer, augmentation or decrease to the working budget.  |
| Finance            | Budgeting     | General          |              | Ability to approve budgets electronically using workflow.   |
| Finance            | Budgeting     | General          |              | Ability to submit the budget proposal for approval using workflow.  |
| Finance            | Budgeting     | General          |              | Ability to provide automated work lists of notifications to reviewers and approvers.  |
| Finance            | Budgeting     | General          |              | Ability to resubmit budget proposal for approval using workflow.  |
| Finance            | Budgeting     | General          |              | Ability to approve/reject budget proposal using workflow.   |
| Finance            | Budgeting     | General          |              | Allows for preparation of final (adopted) budget.   |
| Finance            | Budgeting     | General          |              | Ability to automatically record budgets to the General Ledger as original budgets once approved.                                  |
| Finance            | Budgeting     | General          |              | Ability to "freeze" budget information and access by role.  |
| Finance            | Budgeting     | General          |              | Ability to route budgets electronically.  |
| Finance            | Budgeting     | General          |              | Ability to integrate budget data with the general ledger module.  |
| Finance            | Budgeting     | General          |              | Supports budgets (a federal grant, for example) that have fiscal year different than the institution's fiscal year.               |
| Finance            | Budgeting     | General          |              | Supports the establishment of multi-year budgets.   |
| Finance            | Budgeting     | General          |              | Allows budgets to be established and maintained for future periods.   |
| Finance            | Budgeting     | General          |              | Ability to perform project budgeting from inception to completion across fiscal years.  |
| Finance            | Budgeting     | General          |              | Maintains current budget online.  |
| Finance            | Budgeting     | General          |              | Maintains budget transfers online with appropriate approval.  |
| Finance            | Budgeting     | General          |              | Maintains adopted budget online.  |
| Finance            | Budgeting     | General          |              | Ability to store an unlimited number of annual historical budgets with actual revenue and expenditure data.                       |
| Finance            | Budgeting     | General          |              | Ability to collect budget transfer, augmentation or decrease.   |
| Finance            | Budgeting     | General          |              | Ability to submit transfer, augmentation or decrease for approval.  |
| Finance            | Budgeting     | General          |              | Ability to update the working budget, including multiple accounts, at one time.   |
| Finance            | Budgeting     | General          |              | Ability to transfer budgets within institution defined rules.   |
| Finance            | Budgeting     | General          |              | Ability to initiate budget transfers at account level for subsequent review and approval.   |
| Finance            | Budgeting     | General          |              | Ability to track modifications of budgets.  |
| Finance            | Budgeting     | General          |              | Allows authorized users to transfer funds between budget accounts.  |
| Finance            | Budgeting     | General          |              | Allows budget transfers of multiple account funds to one or more other budget accounts in a single transaction.                   |
| Finance            | Budgeting     | General          |              | Ability to restrict budget transfers within a budget account (i.e., capital budget funds to salary line items).                   |
| Finance            | Budgeting     | General          |              | Ability to insert new budget items.   |
| Finance            | Budgeting     | General          |              | Ability to forecast multi-year budgets for a period of 5 or more years.   |
| Finance            | Budgeting     | General          |              | Ability to automatically record the current budget for use in planning next year's budget.  |
| Finance            | Budgeting     | General          |              | Allows authorized users to develop budget forecasts using base-year-budgets.  |
| Finance            | Budgeting     | General          |              | Ability to include or exclude the budget update from the next fiscal year.  |
| Finance            | Budgeting     | General          |              | Ability to apply inflation factors to a budget model.   |

| <u>Requirement</u> | <u>Module</u> | <u>SubModule</u>   | <u>Group</u> | <u>Text</u>   |
|--------------------|---------------|--------------------|--------------|---|
| Finance            | Budgeting     | General            |              | Allows forecasts to be expressed in terms of percentage increases.  |
| Finance            | Budgeting     | General            |              | Ability to interface with Human Resources system to create budgets for Position Control function.   |
| Finance            | Budgeting     | Funds Availability |              | System supports real-time funds availability control.   |
| Finance            | Budgeting     | Funds Availability |              | System supports tolerances (by percentage) for budget availability control.   |
| Finance            | Budgeting     | Funds Availability |              | System supports automatic hard stops (i.e. error messages), soft stops (i.e. warning messages), automated workflow messaging to managers, and FYI messaging to users when budget tolerances are exceeded. |
| Finance            | Budgeting     | Funds Availability |              | Provides budget availability tolerances by Fund, Department/Division/School, Account, or Grant.   |
| Finance            | Budgeting     | Funds Availability |              | Provides for budget availability based on annual amounts or project, grant, contract life period amounts.   |
| Finance            | Budgeting     | Funds Availability |              | Provides budget availability based on any institution defined periods.  |
| Finance            | Budgeting     | Funds Availability |              | Provides multi-level budget availability where a single expenditure transaction could check multiple budget locations before allowing/disallowing the expenditure to be posted, in real-time.             |
| Finance            | Budgeting     | Funds Availability |              | Provides that transactions within the approval/workflow processes automatically hold budget or encumber against the budget until they are either rejected or approved.                                    |
| Finance            | Budgeting     | Funds Availability |              | Budget transactions are identified as either Original Budget, Budget Transfer, Budget Increase, Budget Decrease, or Budget Carry forwards.  |
| Finance            | Budgeting     | Funds Availability |              | Budgets can be further subdivided into institution definable sub-categories to differentiate between further budget categories for reporting purposes   |
| Finance            | Budgeting     | Funds Availability |              | All encumbrance, expenditure and budget transactions perform a real-time budget check during the creation of the transactions.  |
| Finance            | Budgeting     | Funds Availability |              | Allows institution defined budgetary control options.   |
| Finance            | Budgeting     | Funds Availability |              | Provides authorized user overrides to bypass funds availability checking.   |
| Finance            | Budgeting     | Funds Availability |              | Ability to selectively override budget limits.  |
| Finance            | Budgeting     | Budget Reporting   |              | Ability to produce an over budget report by account number detailed by individual items.  |
| Finance            | Budgeting     | Budget Reporting   |              | Provides online access to budget information with option to print monthly financial statements.   |
| Finance            | Budgeting     | Budget Reporting   |              | Ability to identify non-budget accounts for reporting purposes.   |
| Finance            | Budgeting     | Budget Reporting   |              | Ability to identify operating budget accounts for reporting purposes.   |
| Finance            | Budgeting     | Budget Reporting   |              | Provides online budget query for prior year with capability to dynamically change the sort and display keys.  |
| Finance            | Budgeting     | Budget Reporting   |              | Ability to generate reports: transactions, proposals and comparisons across fiscal years.   |
| Finance            | Budgeting     | Budget Reporting   |              | Ability to compare budgets, receipts or actual expenditures and display remaining balances.   |
| Finance            | Budgeting     | Budget Reporting   |              | Ability to produce standard annual operating budget reports from data in various budget accounts.   |
| Finance            | Budgeting     | Budget Reporting   |              | Ability to provide summary and detail levels of different levels of budget information.   |
| Finance            | Budgeting     | Budget Reporting   |              | Provides online budget query for current year with capability to dynamically change the sort and display keys.  |

| <u>Requirement</u> | <u>Module</u> | <u>SubModule</u> | <u>Group</u> | <u>Text</u>   |
|--------------------|---------------|------------------|--------------|---|
| Finance            | Budgeting     | Budget Reporting |              | Ability to identify specific phases of a budget for reporting.  |
| Finance            | Budgeting     | Budget Reporting |              | Ability to provide an over budget report by account number detailed to individual line items.   |
| Finance            | Budgeting     | Budget Reporting |              | Ability to support budgetary analysis (i.e. by expenditure type, funds, appropriation etc.)   |
| Finance            | Budgeting     | Budget Reporting |              | Provide reports for a user defined period, with multiple columns for user selected funds and consolidated totals.   |
| Finance            | Budgeting     | Budget Reporting |              | Allow output to reported data to external files in a standard format so that information can be processed by a PC based spreadsheet package.  |
| Finance            | Budgeting     | Budget Reporting |              | Support flexible roll-up reporting or detailed management reporting with sorting and totaling based on any level or value.  |
| Finance            | Budgeting     | Budget Reporting |              | Ability to display/report account numbers whose balances are insufficient to cover salary and fringe benefit encumbrances.  |
| Finance            | Budgeting     | Budget Reporting |              | Provides standard financial reports for budget variance.  |
| Finance            | Budgeting     | Budget Reporting |              | Provides standard financial reports for budget YTD.   |
| Finance            | Fixed Assets  | General          |              | Ability to support a reconciliation of physical inventory against what is shown on the system, automatically generating transactions subject to approval processing.  |
| Finance            | Fixed Assets  | General          |              | Ability to have a physical inventory module that includes bar code scanning and printing technology.  |
| Finance            | Fixed Assets  | General          |              | Ability to record receipt of accountable fixed asset fund source.   |
| Finance            | Fixed Assets  | General          |              | Ability to record receipt of accountable fixed asset property control number.   |
| Finance            | Fixed Assets  | General          |              | Ability to record receipt of accountable fixed asset disposal, sale or trade-in.  |
| Finance            | Fixed Assets  | General          |              | Ability to record receipt of accountable fixed asset modifications or alterations.  |
| Finance            | Fixed Assets  | General          |              | Ability to record receipt of accountable fixed asset location.  |
| Finance            | Fixed Assets  | General          |              | Ability to record receipt of accountable fixed asset depreciation schedule or life.   |
| Finance            | Fixed Assets  | General          |              | Ability to record receipt of accountable fixed asset acquisition date.  |
| Finance            | Fixed Assets  | General          |              | Ability to record receipt of accountable fixed asset vendor.  |
| Finance            | Fixed Assets  | General          |              | Ability to record receipt of accountable fixed asset cost.  |
| Finance            | Fixed Assets  | General          |              | Ability to record receipt of accountable fixed asset description.   |
| Finance            | Fixed Assets  | General          |              | Ability to send journal entries to the General Ledger.  |
| Finance            | Fixed Assets  | General          |              | Ability to delete assets if entered incorrectly (with audit trail).   |
| Finance            | Fixed Assets  | General          |              | Ability for the system to support reinstatements of deleted assets.   |
| Finance            | Fixed Assets  | General          |              | Ability for the system to perform transaction in the future or past and post it to a different accounting period than the transaction date.   |
| Finance            | Fixed Assets  | General          |              | Ability to maintain detail property records for all fixed assets including identification codes, commodity classification, acquisition data, supplier information, maintenance data, make, model, and serial number, disposition data, and asset useful life. |
| Finance            | Fixed Assets  | General          |              | Maintains replacement values.   |
| Finance            | Fixed Assets  | General          |              | Maintains detail property records for insurance purposes.   |
| Finance            | Fixed Assets  | General          |              | Ability to track transfer of assets.  |
| Finance            | Fixed Assets  | General          |              | Provides for the definition of institution defined categories of fixed assets.  |
| Finance            | Fixed Assets  | General          |              | Provides for the definition of funding sources for accounting entries.  |

| <u>Requirement</u> | <u>Module</u> | <u>SubModule</u> | <u>Group</u> | <u>Text</u>   |
|--------------------|---------------|------------------|--------------|---|
| Finance            | Fixed Assets  | General          |              | Ability to accept bar coding for property control and inventory purposes.   |
| Finance            | Fixed Assets  | General          |              | Provides for the definition of asset accounts for accounting entries.   |
| Finance            | Fixed Assets  | General          |              | Maintains identification codes for all fixed assets.  |
| Finance            | Fixed Assets  | General          |              | Maintains funding source for all fixed assets.  |
| Finance            | Fixed Assets  | General          |              | Maintains federal government ownership for fixed assets.  |
| Finance            | Fixed Assets  | General          |              | Maintains asset useful life for all fixed assets.   |
| Finance            | Fixed Assets  | General          |              | Maintains disposition data for all fixed assets.  |
| Finance            | Fixed Assets  | General          |              | Maintains model for all fixed assets.   |
| Finance            | Fixed Assets  | General          |              | Maintains maintenance data for all fixed assets.  |
| Finance            | Fixed Assets  | General          |              | Maintains supplier information for all fixed assets.  |
| Finance            | Fixed Assets  | General          |              | Maintains acquisition data for all fixed assets.  |
| Finance            | Fixed Assets  | General          |              | Maintains commodity classification for all fixed assets.  |
| Finance            | Fixed Assets  | General          |              | Ability to separately capture real property assets by disposal.   |
| Finance            | Fixed Assets  | General          |              | Ability to separately capture real property assets alterations.   |
| Finance            | Fixed Assets  | General          |              | Ability to separately capture real property assets repairs.   |
| Finance            | Fixed Assets  | General          |              | Ability to separately capture real property assets modifications.   |
| Finance            | Fixed Assets  | General          |              | Ability to track non capitalized assets (e.g. portable assets )   |
| Finance            | Fixed Assets  | General          |              | Ability to keep historical changes in an audit trail.   |
| Finance            | Fixed Assets  | General          |              | Ability to define asset groups to be used in componentized asset accounting.  |
| Finance            | Fixed Assets  | General          |              | Ability define minimum capitalization limit so that only assets above the threshold can be capitalized.                 |
| Finance            | Fixed Assets  | General          |              | Ability for the system to generate mass transactions such as: Mass transfers (by department, by location, or by user)   |
| Finance            | Fixed Assets  | General          |              | Ability for the system to generate mass transactions such as: Mass retirements (by department, by location, or by user) |
| Finance            | Fixed Assets  | General          |              | Ability to change any piece of information be changed in a mass transaction.  |
| Finance            | Fixed Assets  | General          |              | Ability to track an unlimited number of physical attributes of an asset.  |
| Finance            | Fixed Assets  | General          |              | Ability to tag number maintained separately from asset ID as tracked by the system.                                     |
| Finance            | Fixed Assets  | General          |              | Ability to maintain physical location separately from accounting location.  |
| Finance            | Fixed Assets  | General          |              | Ability to store and display an image (picture) of an asset.  |
| Finance            | Fixed Assets  | General          |              | Ability to represent complex assets in a parent/child relationship.   |
| Finance            | Fixed Assets  | General          |              | Ability to change links between assets.   |
| Finance            | Fixed Assets  | General          |              | Ability to enable individual components of assets to be separately identified.  |
| Finance            | Fixed Assets  | General          |              | Ability to support capital lease amortization.  |
| Finance            | Fixed Assets  | General          |              | Ability to support the same transactions for leased assets as it does for non-leased assets.                            |
| Finance            | Fixed Assets  | General          |              | Ability to perform replacement value indexing.  |
| Finance            | Fixed Assets  | General          |              | Ability to track and report on assets that are on loan.   |
| Finance            | Fixed Assets  | General          |              | Ability to track and report on assets that are available for others' use.   |
| Finance            | Fixed Assets  | General          |              | Ability to track warranties for assets.   |
| Finance            | Fixed Assets  | General          |              | Ability to update replacement value via indexing for inflation.   |
| Finance            | Fixed Assets  | General          |              | Ability to generate several GL accounts or cost centers for fixed asset posting.  |
| Finance            | Fixed Assets  | General          |              | Ability to split assets over multiple cost centers.   |

| <u>Requirement</u> | <u>Module</u> | <u>SubModule</u> | <u>Group</u> | <u>Text</u>   |
|--------------------|---------------|------------------|--------------|---|
| Finance            | Fixed Assets  | General          |              | Ability to book one asset or a group of assets to the general ledger independently of the rest.   |
| Finance            | Fixed Assets  | General          |              | Ability to allow splitting of assets and associated transaction history.  |
| Finance            | Fixed Assets  | General          |              | Ability to mark cost adjustments either as adjustments or additions.  |
| Finance            | Fixed Assets  | General          |              | Ability to enter assets as far into the future or past as the authorized user wants.  |
| Finance            | Fixed Assets  | General          |              | Ability to transfer assets internally.  |
| Finance            | Fixed Assets  | General          |              | Ability to flag assets for disposal based on: Date of purchase  |
| Finance            | Fixed Assets  | General          |              | Ability to flag assets for disposal based on: Model type  |
| Finance            | Fixed Assets  | General          |              | Ability to flag assets for disposal based on: Asset category  |
| Finance            | Fixed Assets  | General          |              | Ability to flag assets for disposal based on: Asset number  |
| Finance            | Fixed Assets  | General          |              | Ability to flag assets for disposal based on: Institution defined criteria  |
| Finance            | Fixed Assets  | General          |              | Ability to provide an audit trail of all transactions, including: Additions   |
| Finance            | Fixed Assets  | General          |              | Ability to provide an audit trail of all transactions, including: Adjustments   |
| Finance            | Fixed Assets  | General          |              | Ability to provide an audit trail of all transactions, including: Transfers   |
| Finance            | Fixed Assets  | General          |              | Ability to provide an audit trail of all transactions, including: Retirements   |
| Finance            | Fixed Assets  | General          |              | Ability to provide an audit trail of all transactions, including: Recategorizations   |
| Finance            | Fixed Assets  | General          |              | Ability to provide an audit trail of all transactions, including: Reinstatements  |
| Finance            | Fixed Assets  | General          |              | Ability to provide an audit trail of all transactions, including: Lease payments  |
| Finance            | Fixed Assets  | General          |              | Ability to provide an audit trail of all transactions, including: Depreciation rule changes   |
| Finance            | Fixed Assets  | General          |              | Ability to accept asset location information.   |
| Finance            | Fixed Assets  | General          |              | Ability to automatically assign a temporary tag number in Fixed Assets for capitalized items.   |
| Finance            | Fixed Assets  | General          |              | Ability to interface with Fixed Assets System when items are received within predefined capitalization limits.                                    |
| Finance            | Fixed Assets  | General          |              | Maintains property records for all fixed assets.  |
| Finance            | Fixed Assets  | General          |              | Provides for the definition of funds for accounting entries originating from fixed assets.  |
| Finance            | Fixed Assets  | General          |              | Ability for assets to be created with detailed information directly from AP to the asset system without re-keying data.                           |
| Finance            | Fixed Assets  | General          |              | Ability for assets to be created with detailed information directly from the PO receiving function to the asset system without re-keying data.    |
| Finance            | Fixed Assets  | General          |              | Ability to interface/integrate with other systems to provide inception-to-date cost information relating to self-constructed or purchased assets. |
| Finance            | Fixed Assets  | Depreciation     |              | Ability to separately capture real property assets accumulated depreciation.  |
| Finance            | Fixed Assets  | Depreciation     |              | Ability to separately capture real property assets current depreciation.  |
| Finance            | Fixed Assets  | Depreciation     |              | Ability to record receipt of accountable fixed asset current depreciation.  |
| Finance            | Fixed Assets  | Depreciation     |              | Ability to record receipt of accountable fixed asset accumulated depreciation.  |
| Finance            | Fixed Assets  | Depreciation     |              | Allows depreciation to be calculated on a monthly, quarterly or annual basis.   |
| Finance            | Fixed Assets  | Depreciation     |              | Provides for institutional definition of various types of depreciation.   |
| Finance            | Fixed Assets  | Depreciation     |              | Provides for the definition of depreciation for accounting entries.   |

| <u>Requirement</u> | <u>Module</u> | <u>SubModule</u>      | <u>Group</u> | <u>Text</u>  |
|--------------------|---------------|-----------------------|--------------|--|
| Finance            | Fixed Assets  | Depreciation          |              | Provides for automatic calculation of depreciation and link it to general ledger.  |
| Finance            | Fixed Assets  | Depreciation          |              | Ability to provide the following depreciation start date conventions: Half-year  |
| Finance            | Fixed Assets  | Depreciation          |              | Ability to provide the following depreciation start date conventions: Institution defined conventions  |
| Finance            | Fixed Assets  | Depreciation          |              | Ability to support calculation of backdated depreciation.  |
| Finance            | Fixed Assets  | Depreciation          |              | Ability for different books (e.g., financial, tax, and other) to be recorded either separately or concurrently.  |
| Finance            | Fixed Assets  | Depreciation          |              | Ability for different books to be processed separately (i.e., financial every month, tax once/year).   |
| Finance            | Fixed Assets  | Depreciation          |              | Ability for books to be added to existing assets on a mass-transaction basis.  |
| Finance            | Fixed Assets  | Depreciation          |              | Ability for a minimum write-off amount be specified, so that when the net book value of an asset hits this amount, the remaining value is immediately depreciated. |
| Finance            | Fixed Assets  | Depreciation          |              | Ability to share depreciation across grouped assets.   |
| Finance            | Fixed Assets  | Depreciation          |              | Ability to specify depreciation start and end date in lieu of a life.  |
| Finance            | Fixed Assets  | Depreciation          |              | Ability to support depreciation projections integrated with the budget system.   |
| Finance            | Fixed Assets  | Depreciation          |              | Ability to separate tax depreciation expense methods and accumulation and separate tax net book value.   |
| Finance            | Fixed Assets  | Depreciation          |              | Ability to make mass depreciation definition changes.  |
| Finance            | Fixed Assets  | Depreciation          |              | Ability to generate balanced journal entries.  |
| Finance            | Fixed Assets  | Depreciation          |              | Ability to post real-time to the general ledger.   |
| Finance            | Fixed Assets  | Depreciation          |              | Ability to rerun depreciation posting to the general ledger an unlimited number of times until the final run.  |
| Finance            | Fixed Assets  | Self Service          |              | Allows authorized users to search for asset records using various criteria or combination of fields.   |
| Finance            | Fixed Assets  | Self Service          |              | Allows authorized users to drill into asset detail such as cost, net book value and other financial information.   |
| Finance            | Fixed Assets  | Self Service          |              | Allows authorized users to drill into asset detail such as assignment, location and other descriptive information.   |
| Finance            | Fixed Assets  | Self Service          |              | Allows authorized users to drill into payables, purchasing and maintenance detail for the asset.   |
| Finance            | Fixed Assets  | Self Service          |              | Allows authorized users to view construction-in-progress assets to manage project costs.   |
| Finance            | Fixed Assets  | Self Service          |              | Allows authorized users to view supporting attachment documents.   |
| Finance            | Fixed Assets  | Self Service          |              | Allows authorized users to save query results as asset lists for future reference.   |
| Finance            | Fixed Assets  | Self Service          |              | Allows authorized users to update a group of data with the 'update as group' option to minimize time-consuming data entry.   |
| Finance            | Fixed Assets  | Self Service          |              | Allows authorized users to transfer assets with a step-by-step wizard.   |
| Finance            | Fixed Assets  | Self Service          |              | Allows authorized users to transfer assets between locations, employees and expense accounts.  |
| Finance            | Fixed Assets  | Fixed Asset Reporting |              | Ability for the system to produce the following annual reports: Depreciation report  |

| <u>Requirement</u> | <u>Module</u>      | <u>SubModule</u>      | <u>Group</u> | <u>Text</u>  |
|--------------------|--------------------|-----------------------|--------------|--|
| Finance            | Fixed Assets       | Fixed Asset Reporting |              | Ability for the system to produce the following annual reports: Asset movement summary (transfers, additions, retirements, etc.)   |
| Finance            | Fixed Assets       | Fixed Asset Reporting |              | Ability for the system to produce the following annual reports: Net book value reports   |
| Finance            | Fixed Assets       | Fixed Asset Reporting |              | Ability for the system to produce the following annual reports: Physical inventory reports   |
| Finance            | Fixed Assets       | Fixed Asset Reporting |              | Ability for the system to produce the following annual reports: Leasing reports  |
| Finance            | Fixed Assets       | Fixed Asset Reporting |              | Ability for the system to produce the following annual reports: User defined reports   |
| Finance            | Fixed Assets       | Fixed Asset Reporting |              | Ability to provide a report of fixed assets by user defined attributes.  |
| Finance            | Fixed Assets       | Fixed Asset Reporting |              | Ability to provide self service to view, transfer locations, add comments or otherwise update assets easily under their control, pending necessary authorizations.   |
| Finance            | Fixed Assets       | Fixed Asset Reporting |              | Ability to generate inventory lists by physical location.  |
| Finance            | Fixed Assets       | Fixed Asset Reporting |              | Ability to generate inventory lists by depreciation schedule.  |
| Finance            | Fixed Assets       | Fixed Asset Reporting |              | Ability to generate inventory lists by accumulated depreciation.   |
| Finance            | Fixed Assets       | Fixed Asset Reporting |              | Ability to generate inventory lists by current depreciation.   |
| Finance            | Fixed Assets       | Fixed Asset Reporting |              | Ability to generate inventory lists by unit of assignment.   |
| Finance            | Fixed Assets       | Fixed Asset Reporting |              | Ability to generate inventory lists by acquisition date.   |
| Finance            | Fixed Assets       | Fixed Asset Reporting |              | Ability to link a capital expenditure with an entry to record the asset and eliminate the expense  |
| Finance            | Facilities Profile |                       |              | Ability to define the organization's facilities in a central definition table that supports other systems.   |
| Finance            | Facilities Profile |                       |              | Ability to define external facilities such as athletic fields.   |
| Finance            | Facilities Profile |                       |              | Ability to define physical addresses.  |
| Finance            | Facilities Profile |                       |              | Ability to define land plots.  |
| Finance            | Facilities Profile |                       |              | Ability to define Rooms within buildings.  |
| Finance            | Facilities Profile |                       |              | Ability to use the facilities profile data to support Human Resources and Payroll functions.   |
| Finance            | Facilities Profile |                       |              | Ability to support Procurement functions i.e. Delivery with facilities profile data.   |
| Finance            | Facilities Profile |                       |              | Ability to support mail delivery functions with facilities profile data.   |
| Finance            | Physical Plant     | Key Control           |              | The product can track individual name, campus address, telephone number, and/or other contact information for keys issued and returned.  |
| Finance            | Physical Plant     | Key Control           |              | The product can maintain a database of information on keys and locks, including such items as lock location, on-hand and total key quantities, key type (master, sub-master, etc.), key cut codes, and date of last re keying. |
| Finance            | Physical Plant     | Key Control           |              | The product can store multiple key levels (master, sub master, etc.) for the same door.  |
| Finance            | Physical Plant     | Key Control           |              | The product can track individual name, campus address, telephone number, and/or other contact information for keys issued and returned.  |
| Finance            | Physical Plant     | Key Control           |              | The product has the ability to store information on issue, return, lost, payment, and refund transactions as well as transaction dates, with whom transactions take place, and notes about transactions.                       |
| Finance            | Physical Plant     | Key Control           |              | The product can generate various reports, including reports of key schedules, key transactions, and key holders (such as a list of all those having access to given areas).  |

| <b><u>Requirement</u></b> | <b><u>Module</u></b> | <b><u>SubModule</u></b>           | <b><u>Group</u></b> | <b><u>Text</u></b>   |
|---------------------------|----------------------|-----------------------------------|---------------------|--|
| Finance                   | Physical Plant       | Key Control                       |                     | The product can generate charge records that may be used to bill departments for key transactions through an interface to the General Ledger.  |
| Finance                   | Physical Plant       | Key Control                       |                     | The product provide keys security hierarchy on multi level (master, sub-master, departmental, day key, entry level, entrances)   |
| Finance                   | Physical Plant       | Key Control                       |                     | The product supports query by multi level (master, sub-master, departmental, day key, entry level, entrances)(key number, key type, building, location, room).   |
| Finance                   | Physical Plant       | Key Control                       |                     | The product provides key catalog of pin settings per lock.   |
| Finance                   | Physical Plant       | Key Control                       |                     | The product provides on-line ability of request for keys, authorization of request, and automatic email notification to employee and authorizing personnel of approval, issuance, and receipt of keys.                             |
| Finance                   | Physical Plant       | Key Control                       |                     | The product prints receipts for key issues and returns in real time.   |
| Finance                   | Physical Plant       | Tool Control                      |                     | The product can maintain a database of tools and equipment available for checkout, including information such as on-hand and total quantities, charge-out rates, warranty information, and serial numbers of serialized equipment. |
| Finance                   | Physical Plant       | Tool Control                      |                     | The product can record the checkout and check in of tools and equipment.   |
| Finance                   | Physical Plant       | Tool Control                      |                     | Checkouts can be designated as permanent or temporary with default and institution defined due dates.  |
| Finance                   | Physical Plant       | Tool Control                      |                     | The product can create charge records for billing purposes.  |
| Finance                   | Physical Plant       | Tool Control                      |                     | Asset records can include quantity information to handle the occurrence of multiple identical non-serialized items in the tool inventory.  |
| Finance                   | Physical Plant       | Tool Control                      |                     | Asset records can include or reference such information as PM histories, maintenance costs, and revenue totals for individual serialized tools.  |
| Finance                   | Physical Plant       | Tool Control                      |                     | The product can print real time receipts upon check in of tools and equipment.   |
| Finance                   | Physical Plant       | Tool Control                      |                     | The product can generate commonly needed reports, such as past due lists, lists of tools checked out by employee or shop, and lists of permanent issues by shop.   |
| Finance                   | Physical Plant       | Tool Control                      |                     | The product can display on-hand quantities of tools and equipment.   |
| Finance                   | Physical Plant       | Self-Service Maintenance Requests |                     | Allows authorized users to enter work requests and work orders on-line.  |
| Finance                   | Physical Plant       | Self-Service Maintenance Requests |                     | Allows authorized users to search for assets to relate to work requests.   |
| Finance                   | Physical Plant       | Self-Service Maintenance Requests |                     | Allows authorized users to enter details on preventative, routine, and emergency work orders.  |
| Finance                   | Physical Plant       | Work Order Tracking               |                     | Work order charges may be charged to multiple accounts based on fixed cost amounts.  |
| Finance                   | Physical Plant       | Work Order Tracking               |                     | Ability to characterize work order/project by type (e.g. responsive or stewardship maintenance)  |
| Finance                   | Physical Plant       | Work Order Tracking               |                     | Ability to select from pre-defined values, such as building room, when requesting a work order.  |
| Finance                   | Physical Plant       | Work Order Tracking               |                     | Ability to charge work orders to valid account codes with descriptive data.  |
| Finance                   | Physical Plant       | Work Order Tracking               |                     | The product can be configured such that completion of certain fields of the customer work request form is mandatory.   |
| Finance                   | Physical Plant       | Work Order Tracking               |                     | The product can automatically generate email notifications of receipt and status of work requests to customers.  |

| <u>Requirement</u> | <u>Module</u>  | <u>SubModule</u>    | <u>Group</u> | <u>Text</u>   |
|--------------------|----------------|---------------------|--------------|---|
| Finance            | Physical Plant | Work Order Tracking |              | Authorized customers can view cost details such as labor, material, rental, and outside services and can determine whether work is billed on actual costs or a flat fee.  |
| Finance            | Physical Plant | Work Order Tracking |              | Work requests entered via the web should automatically update the product's database tables real-time.  |
| Finance            | Physical Plant | Work Order Tracking |              | Work requests entered through web should be grouped with other requests available for review and scheduling.  |
| Finance            | Physical Plant | Work Order Tracking |              | The product provides graphical access to work requests via floor plans through an interface with AutoCAD drawings.  |
| Finance            | Physical Plant | Work Order Tracking |              | Ability to fill out and store work order information for non-emergency work.  |
| Finance            | Physical Plant | Work Order Tracking |              | Ability to record and assign emergency, call-in work immediately.   |
| Finance            | Physical Plant | Work Order Tracking |              | Ability to record and forward non-emergency requests to maintenance supervisor for approval and coordinate approval with requisition.   |
| Finance            | Physical Plant | Work Order Tracking |              | Ability to track account number, facility, shop, employee and group for each requisition.   |
| Finance            | Physical Plant | Work Order Tracking |              | Ability to assign a work order number to requisitions.  |
| Finance            | Physical Plant | Work Order Tracking |              | Ability to store time and material usage information by work order.   |
| Finance            | Physical Plant | Work Order Tracking |              | Ability to generate monthly report showing time and material usage.   |
| Finance            | Physical Plant | Work Order Tracking |              | Ability to generate report of completed work orders.  |
| Finance            | Physical Plant | Work Order Tracking |              | Ability to print work order requests on laser printers.   |
| Finance            | Physical Plant | Work Order Tracking |              | Ability to track and process facility and equipment preventive maintenance (e.g. inspection of facilities, job descriptions and frequency, contractors, work order numbers.)  |
| Finance            | Physical Plant | Work Order Tracking |              | Ability to store historical records of preventive maintenance jobs completed.   |
| Finance            | Physical Plant | Work Order Tracking |              | Ability to charge labor, fringe and material costs automatically to accounts in finance system.   |
| Finance            | Physical Plant | Work Order Tracking |              | Ability to generate reports on finance charges for work orders.   |
| Finance            | Physical Plant | Work Order Tracking |              | Ability to track expenditures for project feasibility, budget containment, contract expenses, future budgeting, confirming accounts charged.  |
| Finance            | Physical Plant | Work Order Tracking |              | Ability to enforce approvals for use of departmental accounts and enforce denial of over-budgeted accounts.   |
| Finance            | Physical Plant | Work Order Tracking |              | Work order entry software can be configured to generate quality assurance questionnaires, customized messages, surveys, etc., every x number of work orders, and automatically report the results.                                |
| Finance            | Physical Plant | Work Order Tracking |              | Work orders can be routed for review and approval.  |
| Finance            | Physical Plant | Work Order Tracking |              | Ability to provide a field-level audit trail for all changes made to work orders, including but not limited to the following: date of change, user making change, original value, new value, and comments associated with change. |
| Finance            | Physical Plant | Work Order Tracking |              | Detailed location, equipment, and asset descriptions and work procedures can be included on work orders to provide detailed query and reporting capabilities.   |
| Finance            | Physical Plant | Work Order Tracking |              | Authorized users should be able to query work orders real-time using wireless hand held devices   |
| Finance            | Physical Plant | Work Order Tracking |              | Authorized users should be able to enter labor against work orders, real-time on hand held devices.   |

| <u>Requirement</u> | <u>Module</u>  | <u>SubModule</u>                | <u>Group</u> | <u>Text</u>  |
|--------------------|----------------|---------------------------------|--------------|--|
| Finance            | Physical Plant | Work Order Tracking             |              | Authorized users should be able to issue materials related to work orders on hand held electronic devices real-time.   |
| Finance            | Physical Plant | Work Order Tracking             |              | The product can automatically generate Work Orders for Locations, Equipment or both.   |
| Finance            | Physical Plant | Work Order Tracking             |              | The product has the ability to store and view documents associated with work orders (CAD, Word, Excel, drawings, notes, etc.).   |
| Finance            | Physical Plant | Work Order Tracking             |              | The product has the ability to store worker comments upon completion of work.  |
| Finance            | Physical Plant | Work Order Tracking             |              | The product can record information about work requestors such as name, phone number, department, and email address and auto-populate this information for requests subsequently submitted by the same requestor. |
| Finance            | Physical Plant | Work Order Tracking             |              | The product can generate reports on actual versus estimated costs.   |
| Finance            | Physical Plant | Work Order Tracking             |              | The product has the ability to estimate work at detail shop level (electric, plumbing, carpentry, and other FMD shops).  |
| Finance            | Physical Plant | Work Order Tracking             |              | The product can post charges to work orders in real time (labor, material, service contracts, miscellaneous costs.)  |
| Finance            | Physical Plant | Work Order Tracking             |              | Miscellaneous user defined costs can be charged to work orders.  |
| Finance            | Physical Plant | Work Order Tracking             |              | Work order charges may be charged to multiple accounts in varying percentages.   |
| Finance            | Physical Plant | Work Order Tracking             |              | The product can create accounting transactions to bill customers for actual labor, material, and rental costs on a work order by work order basis.   |
| Finance            | Physical Plant | Work Order Tracking             |              | The product can alert designated Facilities Management personnel when actual costs are nearing estimated or budgeted costs.  |
| Finance            | Physical Plant | Work Order Tracking             |              | The product can project manpower requirements, including type and number of personnel, for a specified future time period, such as a week, month, or year, based on information in property management plans.    |
| Finance            | Physical Plant | Work Order Reporting            |              | Ability to report on work orders by campus, building, room, department, account code.  |
| Finance            | Physical Plant | Work Order Reporting            |              | Reports can be generated by the customer, including cost summary reports and work order status reports.  |
| Finance            | Physical Plant | Construction Project Accounting |              | Ability to create multi-year budgets for construction projects   |
| Finance            | Physical Plant | Construction Project Accounting |              | Ability to develop and access the versions of the budget of the project through design and construction.   |
| Finance            | Physical Plant | Construction Project Accounting |              | Ability to track online amount used and available on each construction project.  |
| Finance            | Physical Plant | Construction Project Accounting |              | Ability to track inception to date obligation and expenses across fiscal years and fund sources, progress of payments in the University system and status of retainage held for each contract.                   |
| Finance            | Physical Plant | Construction Project Accounting |              | Ability to monitor the architectural and construction manager fees by project phase. (Original contract, amendments, payments and balances will be monitored by phase.)  |
| Finance            | Physical Plant | Construction Project Accounting |              | Ability to monitor executed contract change orders.  |
| Finance            | Physical Plant | Construction Project Accounting |              | Ability to set alerts to proactively monitor the project based upon institution defined criteria.  |
| Finance            | Physical Plant | Construction Project Accounting |              | Ability to transfer expenses across project accounts.  |
| Finance            | Physical Plant | Construction Project Accounting |              | Ability to allow the vendor use self service.  |

| <u>Requirement</u> | <u>Module</u>  | <u>SubModule</u>                | <u>Group</u> | <u>Text</u>   |
|--------------------|----------------|---------------------------------|--------------|---|
| Finance            | Physical Plant | Construction Project Accounting |              | Ability to restrict vendor access to their contract data only.  |
| Finance            | Physical Plant | Construction Project Accounting |              | Ability to provide performance monitoring and reporting at project level, campus level and university level. Project reports will range from a project level to budget line-item level for obligations, change order categories and amount. |
| Finance            | Physical Plant | Construction Project Accounting |              | The product allows the user to define a variety of project types to include different, user defined fields, milestones and budget codes.  |
| Finance            | Physical Plant | Construction Project Accounting |              | The product allows the user to define different types of contracts to support the capital projects, such as architectural/engineering, construction, furniture/fixtures, telecommunications, etc.   |
| Finance            | Physical Plant | Construction Project Accounting |              | The product tracks major revisions to project that might affect the schedule, funding or budget.  |
| Finance            | Physical Plant | Construction Project Accounting |              | The product provides for comparisons between different versions in terms of funding, budgets, milestones and costs incurred.  |
| Finance            | Physical Plant | Construction Project Accounting |              | The product allows the user to define milestones, the weighting of the milestones and percent complete of each of the milestones in the overall capital project.  |
| Finance            | Physical Plant | Construction Project Accounting |              | The product allows the user to attach all project information such as drawings, engineering analysis, notes from telephone conversations, etc to the capital project.   |
| Finance            | Physical Plant | Construction Project Accounting |              | Ability to track Billable and Non-Billable Time for Professional Hourly Services for Specific Projects, allowing staff to input hours worked on projects.   |
| Finance            | Physical Plant | Construction Project Accounting |              | The product maintains project histories.  |
| Finance            | Physical Plant | Construction Project Accounting |              | The product tracks sources of funds for projects and allows the user to distinguish between revenue and expense accounts associated with a project.   |
| Finance            | Physical Plant | Construction Project Accounting |              | The product allows authorized users to enter and manage change requests and change orders.  |
| Finance            | Physical Plant | Construction Project Accounting |              | The product supports different revisions to project and changes between revisions.  |
| Finance            | Physical Plant | Construction Project Accounting |              | All costs related to projects can be obtained through an interface with the General Ledger.   |
| Finance            | Physical Plant | Construction Project Accounting |              | The authorized user is able to drill down to view source of costs and financial information, including PO's, invoices, work orders, for each of the budget codes of the project.  |
| Finance            | Physical Plant | Construction Project Accounting |              | Capital projects are fully integrated with the work order system to incorporate work performed by in-house crews.   |
| Finance            | Physical Plant | Preventive Maintenance          |              | This product provides the ability to interface with environmental controls (temperature, security, alarms) and generate a work order.   |
| Finance            | Physical Plant | Preventive Maintenance          |              | This product provides triggers (certain equipment conditions) that will generate e-mails or alerts.   |
| Finance            | Physical Plant | Preventive Maintenance          |              | The product can generate PM Work Orders automatically based on fixed or sliding calendar intervals, usage such as hours or mileage, condition readings or alarms, or on demand.   |

| <u>Requirement</u> | <u>Module</u>  | <u>SubModule</u>             | <u>Group</u> | <u>Text</u>   |
|--------------------|----------------|------------------------------|--------------|---|
| Finance            | Physical Plant | Preventive Maintenance       |              | Preventive maintenance activities can be scheduled on specified dates, days of the week, days of the month, 1st Monday or work day of the month, other user defined schedules, and may be restricted to specified seasons.                        |
| Finance            | Physical Plant | Preventive Maintenance       |              | Preventive maintenance (PM) orders should be scheduled as a part of a hierarchical arrangement and conflicts should be prevented. For example, quarterly or semi-annual PM orders should not be scheduled at the same time as an annual PM order. |
| Finance            | Physical Plant | Preventive Maintenance       |              | Sets of PM tasks can be defined for groups of similar equipment.  |
| Finance            | Physical Plant | Preventive Maintenance       |              | Existing PM plans can be copied to create new PM plans.   |
| Finance            | Physical Plant | Preventive Maintenance       |              | PM tasks and schedules can be assigned to Equipment or to Building Locations  |
| Finance            | Physical Plant | Preventive Maintenance       |              | The product can maintain the preventive maintenance (PM) histories of assets and equipment  |
| Finance            | Physical Plant | Preventive Maintenance       |              | The product can generate reports of overdue PM orders.  |
| Finance            | Physical Plant | Preventive Maintenance       |              | Assets and PMs can be associated in Route, by reporting labor and closing the route costs will be distributed to all items in the route and the entire route closed in a single operation.  |
| Finance            | Physical Plant | Preventive Maintenance       |              | Ability to track normal physical maintenance of assets, such as vehicle oil changes or tune-ups.  |
| Finance            | Physical Plant | Preventive Maintenance       |              | Ability to schedule physical maintenance.   |
| Finance            | Physical Plant | Preventive Maintenance       |              | Ability for calibration and maintenance costs be captured, distributed, and tracked.  |
| Finance            | Physical Plant | Maintenance Project Tracking |              | Ability to store and report project information including description, CAD prints, material quotes, time frame, contractor proposals, justification letter, maintenance involvement.  |
| Finance            | Physical Plant | Maintenance Project Tracking |              | Ability to incorporate multiple year planning for projects.   |
| Finance            | Physical Plant | Maintenance Project Tracking |              | Ability to manage and report brand, vendor, date of purchase and part number/description of material/equipment install during projects.   |
| Finance            | Physical Plant | Maintenance Project Tracking |              | Ability to track classroom/dorm schedules.  |
| Finance            | Physical Plant | Maintenance Project Tracking |              | Ability to track conference schedules.  |
| Finance            | Physical Plant | Maintenance Project Tracking |              | Ability to track custodial schedules.   |
| Finance            | Physical Plant | Maintenance Project Tracking |              | Ability to track other organization schedules.  |
| Finance            | Physical Plant | Maintenance Project Tracking |              | Ability to track athletic schedules.  |
| Finance            | Physical Plant | Maintenance Project Tracking |              | Ability to track and report room numbers, descriptions and structural layouts of all campus facilities.   |
| Finance            | Physical Plant | Maintenance Project Tracking |              | Ability to track major purchase expenses, equipment, list of building parts (paints) and inventories, warranty dates / installations / maintenance.   |
| Finance            | Physical Plant | Maintenance Project Tracking |              | Ability to calculate and report predictive maintenance.   |
| Finance            | Physical Plant | Maintenance Project Tracking |              | Ability to report expense and labor hours by building by equipment  |
| Finance            | Physical Plant | Maintenance Project Tracking |              | Ability to quickly and easily assign work requests/projects to multiple shops/zones   |
| Finance            | Physical Plant | Building Maintenance         |              | The product provides storage and query of periodic/specific inspection results.   |
| Finance            | Physical Plant | Building Maintenance         |              | The product generates corrective work orders (integrate with work order system) based on inspection results.  |
| Finance            | Physical Plant | Building Maintenance         |              | The product provides reporting for inspecting agencies and users.   |
| Finance            | Physical Plant | Building Maintenance         |              | The product provides input forms for inspections.   |

| <u>Requirement</u> | <u>Module</u>  | <u>SubModule</u>          | <u>Group</u> | <u>Text</u>  |
|--------------------|----------------|---------------------------|--------------|--|
| Finance            | Physical Plant | Building Maintenance      |              | The product generates schedules for inspections.   |
| Finance            | Physical Plant | Space/Location Management |              | Ability to do and report on a facilities condition assessment.   |
| Finance            | Physical Plant | Space/Location Management |              | The product supports a relational space management database.   |
| Finance            | Physical Plant | Space/Location Management |              | This product supports bidirectional graphical - data search capabilities.  |
| Finance            | Physical Plant | Space/Location Management |              | This product interfaces with AutoCad drawings.   |
| Finance            | Physical Plant | Space/Location Management |              | this product contains a graphical reports service that is able to relate data to spatial entities.   |
| Finance            | Physical Plant | Space/Location Management |              | The product supports user defined structures/land entities that can be defined as adjacent to buildings.   |
| Finance            | Physical Plant | Space/Location Management |              | The product should provide a web-based function allowing users to update space usage. This facility should be real time and not require the involvement of clerical personnel. |
| Finance            | Physical Plant | Space/Location Management |              | The product should maintain a database of buildings, rooms, and other spaces, as well as information about those spaces, their furnishings.                                    |
| Finance            | Physical Plant | Space/Location Management |              | The product should support space classification as outlined in US Dept of Education Postsecondary Education Facilities Inventory Classification Manual or FICM standard.       |
| Finance            | Physical Plant | Space/Location Management |              | The product should support multiple Space prorating by Space and Department usage.   |
| Finance            | Physical Plant | Space/Location Management |              | The product supports user defined fields for all space entities.   |
| Finance            | Physical Plant | Space/Location Management |              | The product supports aliases for both buildings and spaces.  |
| Finance            | Physical Plant | Space/Location Management |              | The system supports user definable audit trails on changes to buildings and spaces.  |
| Finance            | Physical Plant | Space/Location Management |              | The product supports user defined structures/land entities that can be defined as adjacent to buildings.   |
| Finance            | Physical Plant | Space/Location Management |              | The product supports security for locations at the user level  |
| Finance            | Physical Plant | Space/Location Management |              | The product supports security at the field level on rooms by authorized users.   |
| Finance            | Physical Plant | Space/Location Management |              | The product should allow the earmark space as being involved in Indirect Cost Recovery activities at the building and space level.   |
| Finance            | Physical Plant | Space/Location Management |              | The product should support the distinction between owning groups for space and occupying groups. They can be the same or different.  |
| Finance            | Physical Plant | Space/Location Management |              | The graphical representation provides links to database information, including asset, equipment, and inhabitant lists.   |
| Finance            | Physical Plant | Utilities Management      |              | The product provides entry and inventory of utility bill information.  |
| Finance            | Physical Plant | Utilities Management      |              | The product provides a unique identifier for each meter, to include master meters, submeters, and track-ing-only meters.   |
| Finance            | Physical Plant | Utilities Management      |              | Ability to enter variable rate charges, updateable in real-time for future billing   |
| Finance            | Physical Plant | Utilities Management      |              | Ability to import current meter readings from text file or from bar code reader as well as manual data entry.  |
| Finance            | Physical Plant | Utilities Management      |              | Ability to enter an invoice from an outside vendor and calculate charges for billing (or import invoices from a vendor-provided text file).                                    |
| Finance            | Physical Plant | Utilities Management      |              | Ability to assign percentages of a master meter to a submeter and have system calculate "left over" amount to bill.  |
| Finance            | Physical Plant | Utilities Management      |              | Ability to track in-house utility production as well as outside utilities purchased.   |
| Finance            | Physical Plant | Utilities Management      |              | Ability to track multiple rate schedules from various vendors.   |

| <u>Requirement</u> | <u>Module</u>   | <u>SubModule</u>             | <u>Group</u> | <u>Text</u>   |
|--------------------|-----------------|------------------------------|--------------|---|
| Finance            | Physical Plant  | Utilities Management         |              | The product provides projections based on what if scenarios coupled with consumption for various historical periods.  |
| Finance            | Physical Plant  | Utilities Management         |              | The product provides for meter/sub-meter reading storage and history.   |
| Finance            | Physical Plant  | Utilities Management         |              | The product provides billing of utilities consumption with export of formatted transactions to Financial System.  |
| Finance            | Physical Plant  | Utilities Management         |              | The product provides reports for budget/consumption analyses.   |
| Finance            | Physical Plant  | Utilities Management         |              | This product provides utility reports for actual use including demand and cost information, as well as use cost and average unit cost.  |
| Finance            | Physical Plant  | Utilities Management         |              | This product provides an ability to export to Excel files and to link with Access databases.  |
| Finance            | Physical Plant  | Utilities Management         |              | This product provides the ability to tie meters/submeters or master meters to buildings and building gross square fee and allows for changes to building gross square feet.   |
| Finance            | Physical Plant  | Utilities Management         |              | This product provides the ability to link to daily weather data--automatically to weather station(s) or entered by hand.  |
| Finance            | Physical Plant  | Utilities Management         |              | This product provides the ability to analyze data on a KBTU/gsf basis--by utility type or all utilities together.   |
| Finance            | Physical Plant  | Utilities Management         |              | This product has the ability to handle these units of measurement: kwh/kw (electric), csf/therm/ctherm (natural gas), klbs (steam), gallons/kgallons (water/waste water), tons/hour (chilled water), gallons/ccf (propane). |
| Finance            | Physical Plant  | Resource Planning            |              | Maintain PM demands by location, equipment, and time periods  |
| Finance            | Physical Plant  | Resource Planning            |              | Maintain PM available resources, technician/vendor, and time periods  |
| Finance            | Physical Plant  | Resource Planning            |              | Ability time phased matching of demands and resources and calculate over/short resources  |
| Finance            | Physical Plant  | Transportation Services      |              | Ability to track and schedule maintenance on vehicles.  |
| Finance            | Physical Plant  | Transportation Services      |              | This product provides a process for reserving vehicles on-line and for billing for use of those vehicles.   |
| Finance            | Physical Plant  | Transportation Services      |              | This product provides a process for billing leased vehicles on a monthly basis, for tracking mileage and fuel use; for tracking titles and license renewals; for billing customers for vehicle use.                         |
| Finance            | Physical Plant  | Lease Management             |              | This product supports a University property management program for tracking leases and rents of University lands, buildings, and equipment to non-University customers.   |
| Finance            | Physical Plant  | Events Planning & Scheduling |              | This product provides a process for planning and scheduling events, for tracking costs related to events, and for billing clients for those costs.  |
| Finance            | Cost Accounting |                              |              | Provides for the recovery of direct labor costs.  |
| Finance            | Cost Accounting |                              |              | Provides for the recovery of overhead costs.  |
| Finance            | Cost Accounting |                              |              | Provides for the recovery of equipment usage costs.   |
| Finance            | Cost Accounting |                              |              | Provides a mechanism for recovery of both direct and indirect costs for delivery of services.   |
| Finance            | Cost Accounting |                              |              | Provides for the development of charge rates based on estimates of costs to be incurred during future billing periods.  |
| Finance            | Cost Accounting |                              |              | Allows for the calculation and maintenance of internal rates.   |
| Finance            | Cost Accounting |                              |              | Supports the automatic selection of the chargeback rate through the billing process.  |
| Finance            | Cost Accounting |                              |              | Ability to automatically create interfund and interdepartmental transactions.   |

| <u>Requirement</u> | <u>Module</u>         | <u>SubModule</u> | <u>Group</u> | <u>Text</u>   |
|--------------------|-----------------------|------------------|--------------|---|
| Finance            | Cost Accounting       |                  |              | Supports the collection of service/product delivery data by customer and cost accounts.   |
| Finance            | Cost Accounting       |                  |              | Performs the appropriate accounting as billing occurs.  |
| Finance            | Cost Accounting       |                  |              | Provides a mechanism to reconcile actual data to estimated data.  |
| Finance            | Cost Accounting       |                  |              | Ability to integrate with Human Resources for salary and benefits information.  |
| Finance            | Cost Accounting       |                  |              | Ability to automatically encumber the necessary funds when an internal customer order is received.  |
| Finance            | Cost Accounting       |                  |              | Provides online reports available for printing.   |
| Finance            | Cost Accounting       |                  |              | Provides summaries for individual units showing percent, salary histories, overruns, and revisions.   |
| Finance            | Investment Management |                  |              | Ability to establish multiple fund balance accounts for tracking investment information across fiscal years.  |
| Finance            | Investment Management |                  |              | Ability to track inception-to-date information for institution specified categories of information (e.g., current year income and prior year income).   |
| Finance            | Investment Management |                  |              | Supports average daily balance methodologies for equitable distribution of earnings and unrealized/realized gains via an automated process.   |
| Finance            | Investment Management |                  |              | Ability to track invested funds with the use of investments pools.  |
| Finance            | Investment Management |                  |              | Allows funds participating in a pool to retain their identity and equity position for specific principal and earnings distribution restrictions.  |
| Finance            | Investment Management |                  |              | Ability to report the net appreciation of an endowment fund per distribution frequency.   |
| Finance            | Investment Management |                  |              | Ability to monitor invested funds online.   |
| Finance            | Investment Management |                  |              | Ability to create/modify spending formulas online.  |
| Finance            | Investment Management |                  |              | Ability to track inception-to-date information for current year income.   |
| Finance            | Investment Management |                  |              | Ability to track inception-to-date information for prior year income.   |
| Finance            | Investment Management |                  |              | Ability to track expenses related to investments.   |
| Finance            | Investment Management |                  |              | Ability to designate multiple income and expense accounts per pool.   |
| Finance            | Investment Management |                  |              | Ability to report the total return for an endowment.  |
| Finance            | Investment Management |                  |              | Provides for automatic recognition of gain/loss for transfers of investments from one fund to another.  |
| Finance            | Investment Management |                  |              | Ability to specify the spending formula hierarchy.  |
| Finance            | Investment Management |                  |              | Ability to create transactions to distribute cash income and realized/unrealized gains and losses to the funds, which participate in a pool and monies to unrestricted funds based upon a predefined spending formula via an automated process. |
| Finance            | Investment Management |                  |              | Provides standard financial reports for investments.  |
| Finance            | Investment Management |                  |              | Ability to track purchases, sales and income earned from securities by fund with integration into the general ledger.   |
| Finance            | Service Centers       |                  |              | Ability to track jobs by budget account number, department, and description.  |
| Finance            | Service Centers       |                  |              | Ability to calculate vehicle use charges based on mileage, to total such charges by account number, and to prepare appropriate journal entries to charge accounts.  |
| Finance            | Service Centers       |                  |              | Ability to track and assign cost to various inventories maintained for internal use.  |
| Finance            | Service Centers       |                  |              | Ability to charge appropriate accounts for inventory usage.   |

| <u>Requirement</u> | <u>Module</u>    | <u>SubModule</u> | <u>Group</u> | <u>Text</u>   |
|--------------------|------------------|------------------|--------------|---|
| Finance            | Service Centers  |                  |              | Ability to compute charges based on services provided, quantities.  |
| Finance            | Service Centers  |                  |              | Ability to automatically generate appropriate journal entries to charge departments for service jobs.   |
| Finance            | Service Centers  |                  |              | Ability to generate bills for external work and monthly departmental total charges for internal work.   |
| Finance            | Service Centers  |                  |              | Ability to report totals by time period, by type of work,   |
| Finance            | Stores Inventory |                  |              | Ability to attach inventory items to labor reports, work orders, and purchase tracking.   |
| Finance            | Stores Inventory |                  |              | Ability to manage the receiving of orders.  |
| Finance            | Stores Inventory |                  |              | Ability to notify other departments of inventory record for equipment (e.g. if hazardous chemical or radioactive compound is ordered the appropriate safety officer is notified.) |
| Finance            | Stores Inventory |                  |              | Ability to create an inventory record from the purchase order.  |
| Finance            | Stores Inventory |                  |              | Ability to manage the receiving of orders.  |
| Finance            | Stores Inventory |                  |              | Maintains on-hand levels and re-supply levels.  |
| Finance            | Stores Inventory |                  |              | Ability to integrate with General Ledger.   |
| Finance            | Stores Inventory |                  |              | Provides online information for reorder points.   |
| Finance            | Stores Inventory |                  |              | Provides online information for on-hand quantities.   |
| Finance            | Stores Inventory |                  |              | Supports materials management.  |
| Finance            | Stores Inventory |                  |              | Supports the average unit cost method for valuing inventory.  |
| Finance            | Stores Inventory |                  |              | Ability to optionally subject requisitions to electronic document routing and approvals.  |
| Finance            | Stores Inventory |                  |              | Ability to initiate stores requisitions online.   |
| Finance            | Stores Inventory |                  |              | Provides online information for safety stock.   |
| Finance            | Stores Inventory |                  |              | Maintains multiple warehouse/stockroom locations.   |
| Finance            | Stores Inventory |                  |              | Provides online catalog capability for store items.   |
| Finance            | Stores Inventory |                  |              | Ability to integrate with Accounts Payable.   |
| Finance            | Stores Inventory |                  |              | Ability to integrate with Receiving.  |
| Finance            | Stores Inventory |                  |              | Ability to integrate with Purchasing.   |
| Finance            | Stores Inventory |                  |              | Ability to service internal and external customers.   |
| Finance            | Stores Inventory |                  |              | Ability to specify rack/shelf/bin locations within a warehouse/stockroom.   |
| Finance            | Stores Inventory |                  |              | Ability to track shipped goods until they return.   |
| Finance            | Stores Inventory |                  |              | Ability to immediately update inventory balances for the warehouse/stockroom accounting records in the General Ledger when processing stores documents (requisitions, receipts).  |
| Finance            | Stores Inventory |                  |              | Provides hard copy catalog capability for store items.  |
| Finance            | Stores Inventory |                  |              | Provides online stock transfer screens.   |
| Finance            | Stores Inventory |                  |              | Provides up-to-the-minute purchasing reports showing goods requested versus goods ordered and available balance.  |
| Finance            | Stores Inventory |                  |              | Ability to define the warehouse/stockroom as a profit center for recognition of Cost of Goods Sold and Warehouse Income.  |
| Finance            | Stores Inventory |                  |              | Ability to automatically adjust the value of the inventory for price changes between receipt and invoicing.   |
| Finance            | Stores Inventory |                  |              | Ability to update physical inventory of warehouse/stockroom items.  |
| Finance            | Stores Inventory |                  |              | Ability to generate physical inventory worksheets.  |
| Finance            | Stores Inventory |                  |              | Ability to record inventory adjustments online.   |
| Finance            | Stores Inventory |                  |              | Ability to record inventory receipts online.  |
| Finance            | Stores Inventory |                  |              | Ability to track receipts online.   |

| <u>Requirement</u> | <u>Module</u>     | <u>SubModule</u> | <u>Group</u> | <u>Text</u>   |
|--------------------|-------------------|------------------|--------------|---|
| Finance            | Stores Inventory  |                  |              | Ability to handle multiple units of measure.  |
| Finance            | Stores Inventory  |                  |              | Ability to process and fill store requisitions at the stockroom window.                                       |
| Finance            | Stores Inventory  |                  |              | Provides online linked access to Material Safety Data Sheets.   |
| Finance            | Stores Inventory  |                  |              | Provides ability to use barcodes to receive and issue stock items.  |
| Finance            | Vendor Management | General          |              | Ability to track vendors individually and by subgroups.   |
| Finance            | Vendor Management | General          |              | Ability to distinguish vendor types.  |
| Finance            | Vendor Management | General          |              | Allows for voice mail number and extension in vendor files.   |
| Finance            | Vendor Management | General          |              | Allows for phone number and extension in vendor files.  |
| Finance            | Vendor Management | General          |              | Allows for pager numbers in vendor files.   |
| Finance            | Vendor Management | General          |              | Allows for fax numbers in vendor files.   |
| Finance            | Vendor Management | General          |              | Allows for web site addresses in vendor files.  |
| Finance            | Vendor Management | General          |              | Allows for email addresses in vendor files.   |
| Finance            | Vendor Management | General          |              | Allows for multiple addresses in vendor files.  |
| Finance            | Vendor Management | General          |              | Provides a field in vendor file to capture either Employer Identification Number or Social Security Number.   |
| Finance            | Vendor Management | General          |              | Ability to add a new vendor.  |
| Finance            | Vendor Management | General          |              | Ability to update an existing vendor.   |
| Finance            | Vendor Management | General          |              | Ability to access vendor information in multiple ways.  |
| Finance            | Vendor Management | General          |              | Ability to record vendor reporting information.   |
| Finance            | Vendor Management | General          |              | Ability to record vendor status.  |
| Finance            | Vendor Management | General          |              | Ability to record other vendor data: contractor license, Title V, customer reps, EFT, insurance, vendor type. |
| Finance            | Vendor Management | General          |              | Ability to roll the old vendor ID into the new system.  |
| Finance            | Vendor Management | General          |              | Ability to focus defaults to vendor name in the vendor search grid.   |
| Finance            | Vendor Management | General          |              | Ability to archive inactive vendors.  |
| Finance            | Vendor Management | General          |              | Ability to allow multiple vendor's addresses, phone numbers, contact persons, etc.                            |
| Finance            | Vendor Management | General          |              | Ability to support MBE/WBE/DVE vendor preference by tracking percent of awards to under-represented vendors.  |
| Finance            | Vendor Management | General          |              | Ability to record purchasing or accounts payable comments about a vendor.                                     |
| Finance            | Vendor Management | General          |              | Supports the limiting of activity by multiple vendor identities/vendor numbers.                               |
| Finance            | Vendor Management | General          |              | Ability to suspend vendors in the file.   |
| Finance            | Vendor Management | General          |              | Allows for notes in vendor files for performance indicators and issues.                                       |
| Finance            | Vendor Management | General          |              | Ability to establish payment terms for each vendor.   |
| Finance            | Vendor Management | General          |              | Ability to establish discount terms for each vendor.  |
| Finance            | Vendor Management | General          |              | Provides a minority designation code for each vendor.   |
| Finance            | Vendor Management | General          |              | Provides a 1099 designation code for each vendor.   |
| Finance            | Vendor Management | General          |              | Ability to share vendor file with Purchasing and Accounts Payable.  |
| Finance            | Vendor Management | General          |              | Ability to remove vendor from hold.   |
| Finance            | Vendor Management | General          |              | Ability to hold or delete vendor.   |
| Finance            | Vendor Management | General          |              | Ability to access a common vendor file.   |
| Finance            | Vendor Management | General          |              | Maintains historical data by vendor.  |
| Finance            | Vendor Management | General          |              | Maintains a history of changes made to the vendor file.   |
| Finance            | Vendor Management | General          |              | Provides an online list of candidate vendors based on commodity selection criteria.                           |
| Finance            | Vendor Management | General          |              | Provides online entry of maintenance for vendor data.   |

| <u>Requirement</u> | <u>Module</u>     | <u>SubModule</u> | <u>Group</u> | <u>Text</u>   |
|--------------------|-------------------|------------------|--------------|---|
| Finance            | Vendor Management | General          |              | Automatically notify requestor/buyer when requested vendor has been added.  |
| Finance            | Vendor Management | General          |              | Ability for Accounts Payable to maintain vendor files with unique numbers to be used by all departments within the university system.                   |
| Finance            | Vendor Management | General          |              | Ability to maintain multiple separate addresses (pay to and order from) on one vendor file.   |
| Finance            | Vendor Management | General          |              | Vendor File must contain Vender Phone Number.   |
| Finance            | Vendor Management | General          |              | Vendor File must contain Vendor Fax Number.   |
| Finance            | Vendor Management | General          |              | Vendor File must contain Vendor Email Number.   |
| Finance            | Vendor Management | General          |              | Vendor File must contain Vendor Tax Reporting Name.   |
| Finance            | Vendor Management | General          |              | Vendor File must contain Vendor American Banking Association Number.  |
| Finance            | Vendor Management | General          |              | Vendor File must contain Vendor Bank Name and Address.  |
| Finance            | Vendor Management | General          |              | Vendor File must contain Vendor Bank Account Number.  |
| Finance            | Vendor Management | General          |              | Vendor file must contain Vendor Payment Terms and discounts.  |
| Finance            | Vendor Management | General          |              | Vendor File must contain Vendor type of foreign.  |
| Finance            | Vendor Management | General          |              | Vendor File must contain Vendor Classification of Organization (e.g., Corporation, Partnership, Sole Proprietor, Non Resident Alien, Contractors, etc.) |
| Finance            | Vendor Management | General          |              | Vendor File must contain Vendor 1099 Classification (e.g., Prizes, Awards, Royalty).  |
| Finance            | Vendor Management | General          |              | Ability to update vendor information without creating a new vendor.   |
| Finance            | Vendor Management | General          |              | Ability to input payment information (ACH,Check) into vendor file to facilitate payment processing.   |
| Finance            | Vendor Management | General          |              | Ability to have multiple payment processes associated with one vendor (Hold, CDS, ACH, check, EDI).   |
| Finance            | Vendor Management | General          |              | Ability to designate a vendor as a contract vendor.   |
| Finance            | Vendor Management | General          |              | Ability to flag employees and students to restrict to payments only (cannot issue a requisition or purchase order to an employee or student).           |
| Finance            | Vendor Management | General          |              | Ability to place vendor payments on hold until all required information is received.  |
| Finance            | Vendor Management | General          |              | Provide for changes to vendor information updating any outstanding payments.  |
| Finance            | Vendor Management | General          |              | Ability to identify and merge duplicate vendors.  |
| Finance            | Vendor Management | General          |              | Ability to merge invoices and purchase orders to merged vendor.   |
| Finance            | Vendor Management | General          |              | Ability to remove a vendor or prevent a vendor from participation in future activity.   |
| Finance            | Vendor Management | General          |              | Provide for a field to include Tax Identification Number or Social Security Number (employees and students) of vendors.                                 |
| Finance            | Vendor Management | General          |              | Ability to identify a "Foreign" vendor type.  |
| Finance            | Vendor Management | General          |              | Ability for the Vendor Table to allow for historical audit trail of changes.  |
| Finance            | Vendor Management | General          |              | Ability to prevent duplicate Vendor TIN's or Social Security numbers from being entered.  |
| Finance            | Vendor Management | General          |              | Ability to search the vendor file to search for vendors which sell a specific commodity.  |
| Finance            | Vendor Management | General          |              | Ability for AP to place a vendor on hold.   |
| Finance            | Vendor Management | Vendor Reporting |              | Ability for departments to view and search vendor files during requisition entry .  |

| <u>Requirement</u> | <u>Module</u>             | <u>SubModule</u>                               | <u>Group</u> | <u>Text</u>   |
|--------------------|---------------------------|--|--------------|---|
| Finance            | Vendor Management         | Vendor Reporting                               |              | Ability to view record of vendor performance, such as number of orders, dollars spent with vendor, late shipment record, etc.   |
| Finance            | Vendor Management         | Vendor Reporting                               |              | Ability to allow vendors to view their own information, such as payment history and invoice status, via the web with secure sign on without Procurement Services needing to maintain passwords. |
| Finance            | Vendor Management         | Vendor Reporting                               |              | Ability to restrict query access to selected vendor information.  |
| Finance            | Vendor Management         | Vendor Reporting                               |              | Provides standard reports and inquiry screens for vendor directory.   |
| Finance            | Vendor Management         | Vendor Reporting                               |              | Ability to access vendor regarding purchase order and payments on invoices.   |
| Finance            | Labor Distribution        |  |              | Ability to report an unlimited number of fund sources and earnings for each employee.   |
| Finance            | Labor Distribution        |  |              | Ability to report time by account number (grant, fund, contract) and object code.   |
| Finance            | Labor Distribution        |  |              | Ability to provide a labor distribution function with account distribution for both salary and fringe costs amounts..   |
| Finance            | Labor Distribution        |  |              | Ability to utilize multiple fringe benefit rates based on employee type or salary classification.   |
| Finance            | Labor Distribution        |  |              | Ability to charge salary and fringe costs to the same account.  |
| Finance            | Labor Distribution        |  |              | Ability to charge salary and fringe costs to separate accounts.   |
| Finance            | Labor Distribution        |  |              | Ability to reallocate previous payrolls to different account numbers (labor distribution.)  |
| Finance            | Labor Distribution        |  |              | Ability to redistribute expended labor dollars online.  |
| Finance            | Labor Distribution        |  |              | Ability to post labor distribution amounts and reallocation amounts to the general ledger.  |
| Finance            | Time and Effort Reporting |  |              | Ability to produce Time and Effort Reports for Grant reporting and tracking.  |
| Finance            | Time and Effort Reporting |  |              | Ability to establish Time and Effort transactions to comply with federal reporting grant and contract requirements.   |
| Finance            | Time and Effort Reporting |  |              | Ability to identify cost share accounts in the general ledger that are included in the Time and Effort reporting process.   |
| Finance            | Time and Effort Reporting |  |              | Ability to distribute and certify Time and Effort reports to Principal Investigators/employees online.  |
| Finance            | Time and Effort Reporting |  |              | Ability to distribute and certify Time and Effort reports to Principal Investigators/employees by paper report.   |
| Finance            | Time and Effort Reporting |  |              | Ability for Principal Investigators/employees to certify Time and Effort pay period entries on line.  |
| Finance            | Time and Effort Reporting |  |              | Ability to maintain and retain records of certified time and effort salary distribution amounts in the online certification environment.  |
| Finance            | Time and Effort Reporting |  |              | Ability to create reports from Time and Effort records.   |
| Finance            | Travel Management         | Advances to travelers, including employees and |              | Interface with Accounts Payable to record advances to or on behalf of employees   |
| Finance            | Travel Management         | Advances to travelers, including employees and |              | Interface with a Corporate Card system to record payments made as advances on behalf of employees   |
| Finance            | Travel Management         | Advances to travelers, including employees and |              | Calculation of advances are made to reduce traveler reimbursement   |
| Finance            | Travel Management         | Self Service                                   |              | Provide the ability for an employee to complete a self service web form requesting approval for travel.   |
| Finance            | Travel Management         | Self Service                                   |              | Provide the ability for an employee to complete a self service web form requesting reimbursement of travel expenses.  |

| <u>Requirement</u> | <u>Module</u>     | <u>SubModule</u> | <u>Group</u> | <u>Text</u>   |
|--------------------|-------------------|------------------|--------------|---|
| Finance            | Travel Management | Self Service     |              | Ability for employees to enter travel reimbursement expense reports for another employee (as an authorized delegate).                                   |
| Finance            | Travel Management | Self Service     |              | Provides step by step assistance via an expense report wizard.  |
| Finance            | Travel Management | Self Service     |              | Provide a link to a web source that incorporates policy information and self service instructions.  |
| Finance            | Travel Management | Self Service     |              | Provide a link to a web source that allows administrators to communicate schedules and rates for mileage, per diems, meals and other expenditure types. |
| Finance            | Travel Management | Pre-Approval     |              | Provide the ability to use a common identification module for employee name and address functions.  |
| Finance            | Travel Management | Pre-Approval     |              | Provide workflow routing from employee to multiple levels of approval.  |
| Finance            | Travel Management | Pre-Approval     |              | Provide event notification to employee and supervisors in workflow chain upon approval/disapproval.   |
| Finance            | Travel Management | Pre-Approval     |              | Provide ability to maintain an approved travel request transaction for further processing as an expense reimbursement.                                  |
| Finance            | Travel Management | Pre-Approval     |              | Provide the ability to record an encumbrance transaction for the estimated budget amount of the travel request upon final approval.                     |
| Finance            | Travel Management | Pre-Approval     |              | Provide the ability to modify or cancel the travel request form throughout the process.   |
| Finance            | Travel Management | Pre-Approval     |              | Provide the ability to modify or cancel the travel request encumbrance transaction after the transaction has been created and posted.                   |
| Finance            | Travel Management | Pre-Approval     |              | Provide the ability to update the general ledger encumbrance with the results of a modified or cancelled transaction.                                   |
| Finance            | Travel Management | Pre-Approval     |              | Provide for funds available edits on the pre-approval travel request .  |
| Finance            | Travel Management | Reimbursement    |              | Provide the ability to link to or further use the pre-approval transaction in the request for reimbursement.  |
| Finance            | Travel Management | Reimbursement    |              | Provide workflow routing from employee to multiple levels of approval for reimbursement.  |
| Finance            | Travel Management | Reimbursement    |              | Provide event notification to employee and supervisors in workflow chain upon approval/disapproval.   |
| Finance            | Travel Management | Reimbursement    |              | Provide the ability to include reimbursement for other business expenses on the web form.   |
| Finance            | Travel Management | Reimbursement    |              | Provide the ability to use a common identification module for employee name and address functions.  |
| Finance            | Travel Management | Reimbursement    |              | Provide ability to modify the encumbrance created in the pre approval process when the actual reimbursement and actual encumbrance are approved.        |
| Finance            | Travel Management | Reimbursement    |              | Provide the ability to create an accounts payable invoice upon approval of the request for reimbursement.   |
| Finance            | Travel Management | Reimbursement    |              | Provide for continuous audit trail of transactions from pre-approval to reimbursement   |
| Finance            | Travel Management | Reimbursement    |              | Provide the ability to use a scanning utility in a "paperless" environment where actual receipts are scanned and included in the audit trail.           |
| Finance            | Travel Management | Reimbursement    |              | Provide the ability to update the general ledger encumbrance with the results of a modified or cancelled expense reimbursement transaction.             |
| Finance            | Travel Management | Reimbursement    |              | Ability to audit expense reports for receipts and policy compliance.  |
| Finance            | Travel Management | Reimbursement    |              | Allows entry of comments and view comments from authorized user, approver and auditor.  |

| <u>Requirement</u> | <u>Module</u>     | <u>SubModule</u>             | <u>Group</u> | <u>Text</u>  |
|--------------------|-------------------|------------------------------|--------------|--|
| Finance            | Travel Management | Reimbursement                |              | Ability to calculate travel expenses, such as mileage, from employee expense reports.  |
| Finance            | Travel Management | Reimbursement                |              | Ability to provide a separate processing stream and reporting for employees travel expenses from other types of accounts payable.  |
| Finance            | Travel Management | Reimbursement                |              | Ability to support multiple expense report formats (e.g. travel reimbursement, reimbursement-non-travel, travel advance and foreign travel approval).  |
| Finance            | Travel Management | Travel and Expense Reporting |              | Allows employees to view expense report summaries.   |
| Finance            | Travel Management | Travel and Expense Reporting |              | Allows employees to view approval and payment status.  |
| Finance            | Travel Management | Travel and Expense Reporting |              | Provides for annual changes to specific policies without major programming changes--see comment below. These embedded items will need to be changed as policies are changed.   |
| Finance            | Travel Management | Travel and Expense Reporting |              | Associates appropriate subcode (or control account) with specific type of expense.   |
| Finance            | Travel Management | Travel and Expense Reporting |              | Allows for tracking of employee advances.  |
| Finance            | Travel Management | Travel and Expense Reporting |              | Allows for tracking of prepaid expenses, not to be reimbursed.   |
| Finance            | Travel Management | Travel and Expense Reporting |              | Permits the splitting of trips between personal (non-reimbursable) and business.   |
| Finance            | Travel Management | Travel and Expense Reporting |              | Provide multiple workflows depending on trip type (instate, out of state, international) or audit risk.  |
| Finance            | Travel Management | Travel and Expense Reporting |              | Automatically pay low risk documents, with convenient way to sample and audit after the fact.  |
| Finance            | Travel Management | Travel and Expense Reporting |              | Allows for creation of traveler id in the same manner as vendor id from Oracle--no manual input.   |
| Finance            | Travel Management | Travel and Expense Reporting |              | Provides for automatic flow of document into payment process--no manual input.   |
| Finance            | Travel Management | Travel and Expense Reporting |              | Provides for interface between airline ghost card into payment process--no manual input.   |
| Finance            | Travel Management | Travel and Expense Reporting |              | Provides for easy split-funding, based on a % or by specific charge.   |
| Finance            | Travel Management | Travel and Expense Reporting |              | Provides for amendment of documents, or supplemental documents, where expenses are reimbursed a couple of times--first internet airfare or conference registration, the remainder of the trip after travel takes place.  |
| Finance            | Travel Management | Travel and Expense Reporting |              | Creates pre-trip authorization for travel requiring air, or out-of-state or international travel; allows for entry of estimated expenses, provides a trip id number or voucher number and routes for electronic signature authorization.   |
| Finance            | Travel Management | Travel and Expense Reporting |              | Maintains a file of traveler information with creation of traveler id in the same manner as vendor id from Oracle, not requiring manual input, but with the ability to maintain other information about that traveler.   |
| Finance            | Travel Management | Travel and Expense Reporting |              | Creates post-trip document with preparer or traveler input limited to entering only the actual amounts and/or items not anticipated on the pre-trip document and a place to indicate whether the item is supported by receipts or default amounts (like per diem items). Automatically matches the pre and post trip documents and provides feedback to user that document or item needs explanation or other information to expedite subsequent processing. |

| <u>Requirement</u>   | <u>Module</u>     | <u>SubModule</u>             | <u>Group</u> | <u>Text</u>   |
|----------------------|-------------------|------------------------------|--------------|---|
| Finance              | Travel Management | Travel and Expense Reporting |              | In processing post-trip documents, automatic screening of attributes of the travel document to screen for things like mileage-only---immediately routed for payment; or international travel with multi-day, many different city per diems---routed for audit before payment.   |
| Finance              | Travel Management | Travel and Expense Reporting |              | A system that guides the traveler or preparer through each element of the document to reduce/eliminate upstream payment delays.   |
| Finance              | Travel Management | Travel and Expense Reporting |              | Calculations (like mileage times rate and per diem for portion of day) should be embedded and not require manual input to eliminate mathematical errors at input and for ease of audit.   |
| Finance              | Travel Management | Travel and Expense Reporting |              | System allows for reimbursement of expenses to be processed every business evening instead of on a weekly basis   |
| Finance              | Travel Management | Travel and Expense Reporting |              | System allows for a window of time to be set if the reimbursement has not taken place then the employee will be reimbursed and the checking of receipts, etc. is done after the fact and corrections done then. This way the employee does not have to wait weeks for a reimbursement and pay out of their own pocket for expenses. |
| Finance              | Travel Management | Travel and Expense Reporting |              | Ability to pull foreign conversion rates easily within the program and not have to go out of the travel program. Somehow this needs to be easier for the travel preparer.   |
| Finance              | Travel Management | Travel and Expense Reporting |              | Interfaces with travel card software, allowing employees to select and include credit card transactions on expense reports  |
| Grants and Contracts | General           | Data Management              |              | Ability for self-service applications to interface with existing portal. Must meet standards for visually impaired access   |
| Grants and Contracts | General           | Data Management              |              | Ability to access proposal and award historical records online through ad-hoc reporting..   |
| Grants and Contracts | General           | Data Management              |              | Ability to archive proposal and award historical records..  |
| Grants and Contracts | General           | Data Management              |              | Ability to assign, track and give credit to multiple PIs on a specific project.   |
| Grants and Contracts | General           | Data Management              |              | Ability to control / track / and report on amendments and sub awards.   |
| Grants and Contracts | General           | Data Management              |              | Ability to define a default value for all fields on the system, particularly drop down lists and selections boxes.  |
| Grants and Contracts | General           | Data Management              |              | Ability to designate account owner/manager hierarchy for each account   |
| Grants and Contracts | General           | Data Management              |              | Ability to enter projects electronically into the RMS using a web/web interface.  |
| Grants and Contracts | General           | Data Management              |              | Ability to generate automated notices to PI, dept, others of account updates  |
| Grants and Contracts | General           | Data Management              |              | Ability to mark fields as required  |
| Grants and Contracts | General           | Data Management              |              | Ability to query on data fields   |
| Grants and Contracts | General           | Data Management              |              | Ability to support system-to-system application to Grants.gov.  |
| Grants and Contracts | General           | Data Management              |              | Ability to support tracking of Material Transfer and Non-Disclosure agreements, Memo of Understanding.  |
| Grants and Contracts | General           | Data Management              |              | Ability to tie existence of non-disclosure agreements, material transfer agreements, and confidentiality agreements to individual projects.   |
| Grants and Contracts | General           | Data Management              |              | Accommodates an unlimited number of user-defined fields, all fields are reportable  |
| Grants and Contracts | General           | Data Management              |              | All fields can be accessed using the <tab> or <enter> key   |
| Grants and Contracts | General           | Data Management              |              | All persons are referenced using an institutionally generated Person ID that is unique to each person.  |

| <u>Requirement</u>   | <u>Module</u> | <u>SubModule</u> | <u>Group</u> | <u>Text</u>   |
|----------------------|---------------|------------------|--------------|---|
| Grants and Contracts | General       | Data Management  |              | All pre-defined default values are (i) able to be deemed not editable or (ii) able to be changed by the users at the time of entering project details.  |
| Grants and Contracts | General       | Data Management  |              | Must have a field to enter and edit free form comments and unusual circumstances for each project   |
| Grants and Contracts | General       | Data Management  |              | Must have an account information capability which allows recording and reviewing current and historical information for sponsor, financial and contractual elements on a one-screen view  |
| Grants and Contracts | General       | Data Management  |              | One-time entry and interface to feed other modules  |
| Grants and Contracts | General       | Data Management  |              | Provide interface between the RMS and FRS systems to exchange financial transactions and data elements.   |
| Grants and Contracts | General       | Data Management  |              | Provide on line ability to create, record, and edit multiple attributes on accounts.  |
| Grants and Contracts | General       | Data Management  |              | Provide searchable electronic log of changes to account attributes on a project by project basis.   |
| Grants and Contracts | General       | Data Management  |              | Provides an interface between invoices and accounts receivable for grants billing   |
| Grants and Contracts | General       | Data Management  |              | Set a default value for business unit, school, faculty or all users of the system.  |
| Grants and Contracts | General       | Data Management  |              | When entering project data, the logged in user can have a unique defined role   |
| Grants and Contracts | General       | Help Tool        |              | Help tool can be customized   |
| Grants and Contracts | General       | Help Tool        |              | Help tool is context sensitive  |
| Grants and Contracts | General       | Help Tool        |              | Help tool is easily accessible from all screens   |
| Grants and Contracts | Post Award    | Account Set Up   |              | Ability to associate a project account with multiple funding sources or multiple projects with one or many funding sources.   |
| Grants and Contracts | Post Award    | Account Set Up   |              | Ability to associate an unlimited number of personnel to a grant; storing personnel title, salutation and department.   |
| Grants and Contracts | Post Award    | Account Set Up   |              | Ability to automatically transfer select proposal/award information to award account.   |
| Grants and Contracts | Post Award    | Account Set Up   |              | Ability to capture award notice from agency, pass to cognizant university offices, Investigator.  |
| Grants and Contracts | Post Award    | Account Set Up   |              | Ability to copy from one grant to another.  |
| Grants and Contracts | Post Award    | Account Set Up   |              | Ability to create a read-only interface that displays user-defined information available online for campus-wide access and printing   |
| Grants and Contracts | Post Award    | Account Set Up   |              | Ability to create new projects (accounts) based on an existing one. Either through a copy function from a similar type project or through the use of "Core" information.  |
| Grants and Contracts | Post Award    | Account Set Up   |              | Ability to define, set-up and maintain funding source (sponsor / agency) basic information into a defined hierarchy.  |
| Grants and Contracts | Post Award    | Account Set Up   |              | Ability to designate separate start and end dates for budget, fiscal, project and reporting periods   |
| Grants and Contracts | Post Award    | Account Set Up   |              | Ability to enter all award / project related specifications and data elements covering a grant, contract or departmental account during its life-cycle including, but not limited to, billing requirements, frequency, type, amounts and dates. |

| <u>Requirement</u>   | <u>Module</u> | <u>SubModule</u> | <u>Group</u> | <u>Text</u>   |
|----------------------|---------------|------------------|--------------|---|
| Grants and Contracts | Post Award    | Account Set Up   |              | Ability to enter all award / project related specifications and data elements covering a grant, contract or departmental account during its life-cycle including, but not limited to, indirect cost rates, bases, accessibility, allowability restrictions.     |
| Grants and Contracts | Post Award    | Account Set Up   |              | Ability to enter all award / project related specifications and data elements covering a grant, contract or departmental account during its life-cycle including, but not limited to, sponsor category.   |
| Grants and Contracts | Post Award    | Account Set Up   |              | Ability to enter all award / project related specifications and data elements covering a grant, contract or departmental account during its life-cycle including, but not limited to, sponsor type.   |
| Grants and Contracts | Post Award    | Account Set Up   |              | Ability to enter all award / project related specifications and data elements covering a grant, contract or departmental account during its life-cycle including, but not limited to, terms and conditions imposed by the sponsor.                              |
| Grants and Contracts | Post Award    | Account Set Up   |              | Ability to enter all award/project related specifications and data elements covering a grant, contract or departmental account during its lifecycle including, but not limited to, ultimate funding source (for sub-contract or pass-through funding purposes). |
| Grants and Contracts | Post Award    | Account Set Up   |              | Ability to enter all award/project related specs and data elements covering a grant, contract or departmental account during its lifecycle including, but not limited to, reporting requirements, frequency, and report format, date filed, and by whom.        |
| Grants and Contracts | Post Award    | Account Set Up   |              | Ability to enter all award/project related specs and data elements covering a grant, contract or departmental account during its lifecycle including, but not limited to, subcontractor activity, subcontractor number, date, amount, dollars spent, etc.       |
| Grants and Contracts | Post Award    | Account Set Up   |              | Ability to enter all award/project related specs and data elements covering a grant, contract or departmental account during its lifecycle including, but not limited to, the award's financial and programmatic contacts and their contact information.        |
| Grants and Contracts | Post Award    | Account Set Up   |              | Ability to establish Grant Accounts with project start and end dates and budget period start and end dates.   |
| Grants and Contracts | Post Award    | Account Set Up   |              | Ability to flag an account when expenses exceed budget  |
| Grants and Contracts | Post Award    | Account Set Up   |              | Ability to flag normally indirect cost items that are allowable as direct charges.  |
| Grants and Contracts | Post Award    | Account Set Up   |              | Ability to have central users define and control institutional established attributes, terms and conditions and to prevent departmental users from making unauthorized or unapproved changes overriding the information.  |
| Grants and Contracts | Post Award    | Account Set Up   |              | Ability to identify the existence of restricted funds as well as unallowable expenditures (ex. by object code).   |
| Grants and Contracts | Post Award    | Account Set Up   |              | Ability to link a project to other related projects and toggle between linked projects.   |
| Grants and Contracts | Post Award    | Account Set Up   |              | Ability to link multiple individuals to a specific project (PI, project administrator, assigned accountant)   |
| Grants and Contracts | Post Award    | Account Set Up   |              | Ability to maintain multiple fiscal years of grant transactions to match the grant fiscal periods   |
| Grants and Contracts | Post Award    | Account Set Up   |              | Ability to pass award data captured at award stage to General Ledger Chart of Accounts setup for account creation & management.   |

| <u>Requirement</u>   | <u>Module</u> | <u>SubModule</u>    | <u>Group</u> | <u>Text</u>   |
|----------------------|---------------|---------------------|--------------|---|
| Grants and Contracts | Post Award    | Account Set Up      |              | Ability to pass data captured at the proposal stage to the award stage upon receipt of award.                                       |
| Grants and Contracts | Post Award    | Account Set Up      |              | Ability to query accounts based on flags or payment methods or sponsor etc  |
| Grants and Contracts | Post Award    | Account Set Up      |              | Ability to query accounts based on hierarchy (for example: first college, then dept, then PI)                                       |
| Grants and Contracts | Post Award    | Account Set Up      |              | Ability to record agency funding procedures such as cash advance, letter of credit, reimbursable terms.                             |
| Grants and Contracts | Post Award    | Account Set Up      |              | Ability to record agency letter of credit rules.  |
| Grants and Contracts | Post Award    | Account Set Up      |              | Ability to record grant or contract budgets for total award.  |
| Grants and Contracts | Post Award    | Account Set Up      |              | Ability to record grant or contract by funding type (grant vs contract vs co-op agreement; fixed price vs. cost reimbursable.; etc) |
| Grants and Contracts | Post Award    | Account Set Up      |              | Ability to record grant or contract funding, budgeting and expenditure parameters.  |
| Grants and Contracts | Post Award    | Account Set Up      |              | Ability to record grant or contract identification number.  |
| Grants and Contracts | Post Award    | Account Set Up      |              | Ability to record granting agency identification, award funding attributes, address.  |
| Grants and Contracts | Post Award    | Account Set Up      |              | Ability to record multiple grants, cooperative agreements and/or contracts by funding agency.                                       |
| Grants and Contracts | Post Award    | Account Set Up      |              | Ability to record reporting requirements by agency/grant.   |
| Grants and Contracts | Post Award    | Account Set Up      |              | Ability to record separate grant budgets by project years that may span institutional fiscal years                                  |
| Grants and Contracts | Post Award    | Account Set Up      |              | Ability to relate project accounts to one another (for program projects).   |
| Grants and Contracts | Post Award    | Account Set Up      |              | Ability to set-up a business manager, principal investigator, and other roles with specific access and authorization privileges.    |
| Grants and Contracts | Post Award    | Account Set Up      |              | Ability to store and add comments in a free-form space  |
| Grants and Contracts | Post Award    | Account Set Up      |              | Ability to store award type, category, and sub-category.  |
| Grants and Contracts | Post Award    | Account Set Up      |              | Ability to track negotiation notes for all contract negotiations related to a sponsored program activity.                           |
| Grants and Contracts | Post Award    | Account Set Up      |              | Provides for unlimited text on a grant.   |
| Grants and Contracts | Post Award    | Accounts Receivable |              | Ability to add freeform data to invoice number field  |
| Grants and Contracts | Post Award    | Accounts Receivable |              | Ability to adjust data/amounts included within standardized invoice.  |
| Grants and Contracts | Post Award    | Accounts Receivable |              | Ability to adjust standardized billing form information based upon Sponsor requirements.  |
| Grants and Contracts | Post Award    | Accounts Receivable |              | Ability to autofill an invoice based on transaction dates, and post to A/R  |
| Grants and Contracts | Post Award    | Accounts Receivable |              | Ability to automatically generate an invoice number based on user-defined parameters  |
| Grants and Contracts | Post Award    | Accounts Receivable |              | Ability to automatically insert creators' electronic signature to invoice and reporting forms                                       |
| Grants and Contracts | Post Award    | Accounts Receivable |              | Ability to bill multiple periods on one invoice   |
| Grants and Contracts | Post Award    | Accounts Receivable |              | Ability to click on invoice entry and pull up transaction detail  |
| Grants and Contracts | Post Award    | Accounts Receivable |              | Ability to create an agency billing for reimbursable grants/contracts at the account level that posts to Accounts Receivable.       |
| Grants and Contracts | Post Award    | Accounts Receivable |              | Ability to create an interface database comprised of user-defined fields to link A/R with award database to perform invoicing       |
| Grants and Contracts | Post Award    | Accounts Receivable |              | Ability to define aging reports at hierarchical levels  |
| Grants and Contracts | Post Award    | Accounts Receivable |              | Ability to generate an aging report that shows individual invoice balances due by age by account.                                   |

| <u>Requirement</u>   | <u>Module</u> | <u>SubModule</u>    | <u>Group</u> | <u>Text</u>  |
|----------------------|---------------|---------------------|--------------|--|
| Grants and Contracts | Post Award    | Accounts Receivable |              | Ability to generate and record multiple invoices monthly on an account by account basis.                               |
| Grants and Contracts | Post Award    | Accounts Receivable |              | Ability to generate individual receivable entries by project from consolidated billing                                 |
| Grants and Contracts | Post Award    | Accounts Receivable |              | Ability to have institutions' logo/address as standardized part of electronic invoice and reporting forms              |
| Grants and Contracts | Post Award    | Accounts Receivable |              | Ability to have standardized disclosure statements on invoice and reporting forms                                      |
| Grants and Contracts | Post Award    | Accounts Receivable |              | Ability to identify payments received on individual invoice amounts and/or cumulative total bill amounts               |
| Grants and Contracts | Post Award    | Accounts Receivable |              | Ability to include multiple funding source coding on invoices  |
| Grants and Contracts | Post Award    | Accounts Receivable |              | Ability to included free form remarks on invoices  |
| Grants and Contracts | Post Award    | Accounts Receivable |              | Ability to indicate multiple billing due dates over the life of the project  |
| Grants and Contracts | Post Award    | Accounts Receivable |              | Ability to interface with email to distribute copies via email attachment to designated recipients                     |
| Grants and Contracts | Post Award    | Accounts Receivable |              | Ability to link to sponsor specific billing form, populate fields  |
| Grants and Contracts | Post Award    | Accounts Receivable |              | Ability to load multiple billing forms   |
| Grants and Contracts | Post Award    | Accounts Receivable |              | Ability to mark invoices as paid as to amount received on invoice basis  |
| Grants and Contracts | Post Award    | Accounts Receivable |              | Ability to modify or delete previously unposted billing forms  |
| Grants and Contracts | Post Award    | Accounts Receivable |              | Ability to produce a statement at the account and/or project level for outstanding invoice balances                    |
| Grants and Contracts | Post Award    | Accounts Receivable |              | Ability to record multiple invoice recipient data and delivery instructions  |
| Grants and Contracts | Post Award    | Accounts Receivable |              | Ability to retrieve consolidated billing information for a group of designated projects                                |
| Grants and Contracts | Post Award    | Accounts Receivable |              | Ability to save and retrieve and later complete incomplete billing documents   |
| Grants and Contracts | Post Award    | Accounts Receivable |              | Ability to save, retrieve and print a copy of any past invoices generated  |
| Grants and Contracts | Post Award    | Accounts Receivable |              | Ability to screen print  |
| Grants and Contracts | Post Award    | Accounts Receivable |              | Ability to see breakdown of total outstanding receivable balance at acct level   |
| Grants and Contracts | Post Award    | Accounts Receivable |              | Ability to see breakdown of total payments into individuals payment amounts received at the acct level                 |
| Grants and Contracts | Post Award    | Accounts Receivable |              | Ability to show current period and cumulative expense amounts by category on same invoice                              |
| Grants and Contracts | Post Award    | Accounts Receivable |              | Ability to specify billing form or forms on a project level  |
| Grants and Contracts | Post Award    | Accounts Receivable |              | Ability to track individual payments against specific invoices   |
| Grants and Contracts | Post Award    | Accounts Receivable |              | Ability to track individual receivable transactions from the GL  |
| Grants and Contracts | Post Award    | Accounts Receivable |              | Flexibility to search on a variety of parameters to match payments received to outstanding invoices                    |
| Grants and Contracts | Post Award    | Accounts Receivable |              | Provide a procedure to accumulate project accounts by certain attributes to prepare electronic letter of credit draws. |
| Grants and Contracts | Post Award    | Accounts Receivable |              | Provides for a standardized invoice based upon industry standards.   |
| Grants and Contracts | Post Award    | Budget              |              | Ability to accommodate budget and expenditure tracking for multiple funding awards per project.                        |
| Grants and Contracts | Post Award    | Budget              |              | Ability to accommodate budget and expenditure tracking for multiple subcontracts per award.                            |
| Grants and Contracts | Post Award    | Budget              |              | Ability to allocate shared expenses (computer, copying, etc) on a standard, calculate basis.                           |

| <u>Requirement</u>   | <u>Module</u> | <u>SubModule</u> | <u>Group</u> | <u>Text</u>  |
|----------------------|---------------|------------------|--------------|--|
| Grants and Contracts | Post Award    | Budget           |              | Ability to allow for expenditures beyond the current budget when department or PI has confirmation of additional, forthcoming funding.   |
| Grants and Contracts | Post Award    | Budget           |              | Ability to allow only certain persons to input chargeable time or expenses to a project.   |
| Grants and Contracts | Post Award    | Budget           |              | Ability to apply appropriate fringe benefit rates to each salary category and to change these rates with each fiscal year.   |
| Grants and Contracts | Post Award    | Budget           |              | Ability to assign specific personnel charges to the project based on percentage of effort over the life of the project.  |
| Grants and Contracts | Post Award    | Budget           |              | Ability to automatically recognize revenue upon the posting of expense calculations.   |
| Grants and Contracts | Post Award    | Budget           |              | Ability to budget for multitask projects where each task is controlled by an individual department or by separate individuals within the same department.  |
| Grants and Contracts | Post Award    | Budget           |              | Ability to budget for projects where individual tasks use different indirect cost rates.   |
| Grants and Contracts | Post Award    | Budget           |              | Ability to control when users have the capability to add, change or delete project budgets.  |
| Grants and Contracts | Post Award    | Budget           |              | Ability to copy another existing project budget (all or portions) to use as the basis for a new project budget.  |
| Grants and Contracts | Post Award    | Budget           |              | Ability to create budgets by project year or entire project.   |
| Grants and Contracts | Post Award    | Budget           |              | Ability to define multiple budget periods and associate all project information for each of those periods without re-keying project information.   |
| Grants and Contracts | Post Award    | Budget           |              | Ability to differentiate equipment purchases based on whether or not CSU retains ownership   |
| Grants and Contracts | Post Award    | Budget           |              | Ability to easily revise budgets including amounts and/or effective dates.   |
| Grants and Contracts | Post Award    | Budget           |              | Ability to immediately reject requested cost transfers if the request does not meet allowable or allocable conditions established in project and budget set-up, including a validation test on original expenditure date.              |
| Grants and Contracts | Post Award    | Budget           |              | Ability to implement budgets at different levels of expenditure detail (travel versus airfare and lodging; supplier versus paper).   |
| Grants and Contracts | Post Award    | Budget           |              | Ability to integrate with Human Resources for salary and earning information.  |
| Grants and Contracts | Post Award    | Budget           |              | Ability to limit an expense to a dollar limit (e.g., hotel is limited to \$100 per night to be charged as a billable amount to a project) and to post the amount that exceeds that limit to a non-billable account or another project. |
| Grants and Contracts | Post Award    | Budget           |              | Ability to link with asset management module and allow search and select of equipment  |
| Grants and Contracts | Post Award    | Budget           |              | Ability to maintain a history of the original award amount as well as the approved funding at the time of each modification.   |
| Grants and Contracts | Post Award    | Budget           |              | Ability to maintain future year budgets and funding allocations.   |
| Grants and Contracts | Post Award    | Budget           |              | Ability to modify budget breakdown structures throughout the life-cycle of the project, view the changes to structure and maintain an audit trail of the modifications.  |
| Grants and Contracts | Post Award    | Budget           |              | Ability to modify existing project set-ups and budget structures as a result of the receipt of a modification or amendment from the funding source or sponsor.   |

| <u>Requirement</u>   | <u>Module</u> | <u>SubModule</u> | <u>Group</u> | <u>Text</u>  |
|----------------------|---------------|------------------|--------------|--|
| Grants and Contracts | Post Award    | Budget           |              | Ability to place controls on what unused budgets can be used for (i.e., unused indirect budget to support direct costs or vice versa).   |
| Grants and Contracts | Post Award    | Budget           |              | Ability to process "budget to date" reporting  |
| Grants and Contracts | Post Award    | Budget           |              | Ability to produce Agency Budget Reports.  |
| Grants and Contracts | Post Award    | Budget           |              | Ability to recognize salary caps and prevent cost accumulation beyond the cap on awards.   |
| Grants and Contracts | Post Award    | Budget           |              | Ability to record details of equipment purchased during research activity  |
| Grants and Contracts | Post Award    | Budget           |              | Ability to record details of equipment used during research activity   |
|                      |               |                  |              | Ability to restrict charging expenditures to a project if special approvals are required. Need to ensure that approvals have been obtained prior to charging. (i.e., protocols bio-hazard, human experimentation, controlled substances etc.).                 |
| Grants and Contracts | Post Award    | Budget           |              | Ability to roll-up lower-level tasks budgets to project. This includes the ability to establish program project budgets. The funding source provides one grant, one CFDA number but the project is managed by five distinct principal investigators or differ. |
| Grants and Contracts | Post Award    | Budget           |              | Ability to support federal requirements for time & effort reporting over life of multi year project.   |
| Grants and Contracts | Post Award    | Budget           |              | Ability to transfer expenditures on closed projects to continuation year or other pre-defined cost center.   |
| Grants and Contracts | Post Award    | Budget           |              | Allows for multiple iterations of grant budgets.   |
| Grants and Contracts | Post Award    | Budget           |              | Provide the ability to allow departmental overrides on funding unavailability in those instances where the department knows a project will overdraft but is manageable, i.e. commitment entered as a "plan" not actual commitment.                             |
| Grants and Contracts | Post Award    | Budget           |              | Re-budget requests must automatically calculate or adjust any associated indirect or fringe benefit costs. If salary cost is rebudgeted to supplies - the associated fringe benefits and indirect costs must also be adjusted.                                 |
| Grants and Contracts | Post Award    | Budget           |              | System allows internal distribution of indirect cost recovery via unlimited number of user-defined formulas.   |
| Grants and Contracts | Post Award    | Closeout         |              | Ability to define and generate close-out documents specifically related to specific project.   |
| Grants and Contracts | Post Award    | Closeout         |              | Ability to identify related projects when implementing closeout procedures.  |
| Grants and Contracts | Post Award    | Closeout         |              | Ability to link to the accounting system to automatically generate required equipment report.  |
| Grants and Contracts | Post Award    | Closeout         |              | Ability to link to the intellectual property (IP) system to automatically generate the required technology report  |
| Grants and Contracts | Post Award    | Closeout         |              | Ability to provide automated notification to responsible parties at specified intervals regarding close-out status and needed actions.   |
| Grants and Contracts | Post Award    | Closeout         |              | Ability to track record retention requirements by project.   |
| Grants and Contracts | Post Award    | Cost Sharing     |              | Ability to automatically calculate indirect costs and cost share from user definable variables.  |
| Grants and Contracts | Post Award    | Cost Sharing     |              | Ability to calculate cost share by percentage.   |
| Grants and Contracts | Post Award    | Cost Sharing     |              | Ability to calculate cost share lump sum amount.   |
| Grants and Contracts | Post Award    | Cost Sharing     |              | Ability to calculate cost share on a transaction at an institution-defined interval.   |
| Grants and Contracts | Post Award    | Cost Sharing     |              | Ability to calculate cost share on a transaction by transaction basis.   |

| <u>Requirement</u>   | <u>Module</u> | <u>SubModule</u> | <u>Group</u> | <u>Text</u>  |
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| Grants and Contracts | Post Award    | Cost Sharing     |              | Ability to track matching funds (both cash and in-kind).   |
| Grants and Contracts | Post Award    | Cost Sharing     |              | Allows for posting of cost share in the grant fund or in a separate cost share fund.   |
| Grants and Contracts | Post Award    | Cost Sharing     |              | Provide for the recording of cost sharing and matching requirements.   |
| Grants and Contracts | Post Award    | Cost Sharing     |              | Provides system-generated matching funds transfer entries.   |
| Grants and Contracts | Post Award    | F&A              |              | Ability to calculate F&A (indirect) based upon applicable negotiate F&A rate taking into consideration specific exemptions and limitations   |
| Grants and Contracts | Post Award    | F&A              |              | Ability to create indirect cost recovery transactions based on expenditure transactions and record those transactions in the general ledger.   |
| Grants and Contracts | Post Award    | F&A              |              | Ability to support the calculation and recording of F&A (indirect) costs real-time   |
| Grants and Contracts | Post Award    | F&A              |              | Ability to support tracking & allocating shares of F&A to colleges, departments, labs and investigators on an account by account basis   |
| Grants and Contracts | Post Award    | F&A Costs        |              | Ability to automatically calculate facilities & administrative costs on cost share amounts.  |
| Grants and Contracts | Post Award    | F&A Costs        |              | Ability to calculate indirect costs up to a threshold or maximum amount (i.e. subcontracts).   |
| Grants and Contracts | Post Award    | F&A Costs        |              | Ability to capture the difference between institution actual rates and negotiated rates in a memo ledger.  |
| Grants and Contracts | Post Award    | F&A Costs        |              | Ability to define limits on amount of indirect costs calculated. For example, only calculate and record indirect costs on first \$25,000 of costs for each subcontractor on an agreement in a given budget period. |
| Grants and Contracts | Post Award    | F&A Costs        |              | Allows differing rates based on location (on-campus or off-campus).  |
| Grants and Contracts | Post Award    | F&A Costs        |              | Allows for calculation of indirect costs on a transaction by transaction basis or on an institution-defined interval.  |
| Grants and Contracts | Post Award    | F&A Costs        |              | Allows rate overrides by account type or code.   |
| Grants and Contracts | Post Award    | F&A Costs        |              | Provides a mechanism for recovery of both direct and indirect costs for delivery of services.  |
| Grants and Contracts | Post Award    | F&A Costs        |              | Provides for standard indirect cost rates.   |
| Grants and Contracts | Post Award    | F&A Costs        |              | Supports multiple bases for calculating Facilities & Administrative Costs (i.e., indirect costs)   |
| Grants and Contracts | Post Award    | General          |              | A system to record and report on subcontractor activity separately then other vendors. Record contacts, amounts spent, overhead recovered, and amount included/excluded from cost base.                            |
| Grants and Contracts | Post Award    | General          |              | Ability to allow or not allow costs to be charged to a project based upon status: i.e. open, late, pre-, closed, suspended, etc.   |
| Grants and Contracts | Post Award    | General          |              | Ability to create agency account codes for cross-reference and query to Institution account codes.   |
| Grants and Contracts | Post Award    | General          |              | Ability to create and track status of employee disclosures of financial conflict of interest; ability to track status of implementation of financial conflict of interest management plans.                        |
| Grants and Contracts | Post Award    | General          |              | Ability to define unallowable costs as prescribed by the funding source.   |
| Grants and Contracts | Post Award    | General          |              | Ability to determine the specific user who created or modified the budget, invoices and receivables.   |
| Grants and Contracts | Post Award    | General          |              | Ability to electronically distribute, at the discretion of the department, to the stockrooms and service centers, etc. the appropriate account number to be used in charging costs.                                |
| Grants and Contracts | Post Award    | General          |              | Ability to gather award extension request and approval date.   |

| <u>Requirement</u>   | <u>Module</u> | <u>SubModule</u>       | <u>Group</u> | <u>Text</u>   |
|----------------------|---------------|------------------------|--------------|---|
| Grants and Contracts | Post Award    | General                |              | Ability to have a status which only allows credit transaction to post to an account which would clear any overdraft or deficit.   |
| Grants and Contracts | Post Award    | General                |              | Ability to identify projects to a parent or "superproject" (e.g., to roll-up 5 year projects into a 20 year project).   |
| Grants and Contracts | Post Award    | General                |              | Ability to indicate in the system the date a report was submitted to the sponsor, i.e. technical, progress reports.   |
| Grants and Contracts | Post Award    | General                |              | Ability to restrict categories of costs not subject to re-budgeting, i.e. not allow certain categories to be re-budgeted without approval.  |
| Grants and Contracts | Post Award    | General                |              | Ability to send notification to the PI or administrator when tolerances (i.e., project budget, line item budget by dollar amount or percentage) will be or have been exceeded.  |
| Grants and Contracts | Post Award    | General                |              | Ability to track events/reminders with automatic notification of when they are due.   |
| Grants and Contracts | Post Award    | General                |              | Provide the ability for the PI or administrator to easily process requests for no-cost time extensions and re-budgeting requests. Provide electronic automated routing of the requests to the appropriate University offices. |
| Grants and Contracts | Post Award    | General                |              | Provides approval process for all account activity.   |
| Grants and Contracts | Post Award    | General                |              | Provides fund and organization security throughout the grant process.   |
| Grants and Contracts | Post Award    | General                |              | Provides memo ledger entries completely separate from finance ledgers.  |
| Grants and Contracts | Post Award    | General                |              | Provides real-time processing for cost adjustments and payroll reallocations on awards.   |
| Grants and Contracts | Post Award    | General Ledger         |              | Ability to routinely recognize revenue and record transaction in General Ledger.  |
| Grants and Contracts | Post Award    | Online Query/Reporting |              | Ability for user ad hoc reporting capability over the life of the grant/contract.   |
| Grants and Contracts | Post Award    | Online Query/Reporting |              | Ability to access database on-line to ascertain status related to workflow, budget, compliance, etc.  |
| Grants and Contracts | Post Award    | Online Query/Reporting |              | Ability to construct data cubes across all projects (e.g. allocations and expenditures on travel for all or defined set of projects).   |
| Grants and Contracts | Post Award    | Online Query/Reporting |              | Ability to copy and paste data from multiple sources  |
| Grants and Contracts | Post Award    | Online Query/Reporting |              | Ability to create a report that indicates the number of projects applied/approved and the % funded  |
| Grants and Contracts | Post Award    | Online Query/Reporting |              | Ability to create and save template reporting forms and edit as needed  |
| Grants and Contracts | Post Award    | Online Query/Reporting |              | Ability to create reporting views of grant or contract transactions that match the annual and project to date grant period.   |
| Grants and Contracts | Post Award    | Online Query/Reporting |              | Ability to create reports to support federal requirements relating to the use of women and minority owned business enterprises (MBE/WBE).   |
| Grants and Contracts | Post Award    | Online Query/Reporting |              | Ability to define interdisciplinary projects across organizational units (academic and administrative) and construct reports down to lowest level of detail.  |
| Grants and Contracts | Post Award    | Online Query/Reporting |              | Ability to define object code mapping for each report line or field from the General Ledger system to the reporting categories required by the funding source.  |
| Grants and Contracts | Post Award    | Online Query/Reporting |              | Ability to download generated reporting data into excel spreadsheet   |
| Grants and Contracts | Post Award    | Online Query/Reporting |              | Ability to electronically store award and other non-confidential account documents for view and retrieval by authorized on-line users.  |
| Grants and Contracts | Post Award    | Online Query/Reporting |              | Ability to generate completed standard reporting forms for Federal agencies and private organizations.  |

| <u>Requirement</u>   | <u>Module</u> | <u>SubModule</u>       | <u>Group</u> | <u>Text</u>  |
|----------------------|---------------|------------------------|--------------|--|
| Grants and Contracts | Post Award    | Online Query/Reporting |              | Ability to generate standard reports to sponsoring agencies (SF269, SF269A, SF272).  |
| Grants and Contracts | Post Award    | Online Query/Reporting |              | Ability to include free form remarks on reporting  |
| Grants and Contracts | Post Award    | Online Query/Reporting |              | Ability to indicate multiple report due dates over the life of the project   |
| Grants and Contracts | Post Award    | Online Query/Reporting |              | Ability to limit users of reporting tools to access only that information corresponding to their department or awards.   |
| Grants and Contracts | Post Award    | Online Query/Reporting |              | Ability to provide listing of accounts with upcoming "reports/event due" based upon user defined parameters.   |
| Grants and Contracts | Post Award    | Online Query/Reporting |              | Ability to provide up to date access to project budget, encumbrance and expenditure data for current month, fiscal year to date, prior year and inception to date.   |
| Grants and Contracts | Post Award    | Online Query/Reporting |              | Ability to provide user defined reports at the lowest level of detail.   |
| Grants and Contracts | Post Award    | Online Query/Reporting |              | Ability to query by title.   |
| Grants and Contracts | Post Award    | Online Query/Reporting |              | Ability to record multiple recipient data on reporting   |
| Grants and Contracts | Post Award    | Online Query/Reporting |              | Ability to specify and generate SF 269, 272 and other sponsor forms electronically based on user defined parameters and edit as necessary  |
| Grants and Contracts | Post Award    | Online Query/Reporting |              | Ability to support after-the-fact activity (effort) reporting as defined in OMB Circular A-21  |
| Grants and Contracts | Post Award    | Online Query/Reporting |              | Ability to support internal user financial reporting of grant and contract activities.   |
| Grants and Contracts | Post Award    | Online Query/Reporting |              | Ability to track and report on program income resulting from the activity of the project.  |
| Grants and Contracts | Post Award    | Online Query/Reporting |              | Ability to view all current awards by department.  |
| Grants and Contracts | Post Award    | Online Query/Reporting |              | Ability to view and report on an award at the same level of detail as a project (i.e., include all projects funded by a given award).  |
| Grants and Contracts | Post Award    | Online Query/Reporting |              | Ability to view award encumbrance detail and the associated purchase by date established by P.I.   |
| Grants and Contracts | Post Award    | Online Query/Reporting |              | Ability to view information on many different time periods - project, fiscal year, greater than twelve months, and government fiscal year.   |
| Grants and Contracts | Post Award    | Online Query/Reporting |              | All reports have the option of printing direct to a printer chosen by user.  |
| Grants and Contracts | Post Award    | Online Query/Reporting |              | All reports have the option of printing to a file in a format chosen by user   |
| Grants and Contracts | Post Award    | Online Query/Reporting |              | All reports should show the date the report was run, the title of the report, the user, and have some way of identifying the criteria used to generate the report.   |
| Grants and Contracts | Post Award    | Online Query/Reporting |              | Flexibility to generate user defined financial reporting fields.   |
| Grants and Contracts | Post Award    | Online Query/Reporting |              | Maintains grant ledger information for online query access and for reconciliation to the Finance ledgers.  |
| Grants and Contracts | Post Award    | Online Query/Reporting |              | Provide a shared database for all project information accessible to all interested parties with proper access authority. Provide a user-friendly query mechanism to find an award / project number if only a part of the information is known, i.e. PI name. |
| Grants and Contracts | Post Award    | Online Query/Reporting |              | Provides inception to date, fiscal, project reporting and online access.   |
| Grants and Contracts | Post Award    | Online Query/Reporting |              | Provides summaries for individual units showing percent, salary histories, overruns, and revisions.  |
| Grants and Contracts | Post Award    | Online Query/Reporting |              | Reports are easy to print, are clearly readable and data entered into text box fields on screen are formatted appropriately on reports.  |
| Grants and Contracts | Post Award    | Online Query/Reporting |              | Search negotiations under several differing criteria (or fields) rather than only one criteria or field.   |

| <u>Requirement</u>   | <u>Module</u> | <u>SubModule</u>       | <u>Group</u>         | <u>Text</u>  |
|----------------------|---------------|------------------------|----------------------|--|
| Grants and Contracts | Post Award    | Online Query/Reporting |                      | System provides audit trail for all actions.   |
| Grants and Contracts | Post Award    | Online Query/Reporting |                      | Technical reports are linked to respective projects.   |
| Grants and Contracts | Post Award    | Online Query/Reporting |                      | User has a choice of report output types   |
| Grants and Contracts | Post Award    | Project Close Out      |                      | Ability to archive and/or purge projects that have not had project activity for a pre-defined period of time.  |
| Grants and Contracts | Post Award    | Project Close Out      |                      | Ability to control transactions on awards after the end date of the award has been reached.  |
| Grants and Contracts | Post Award    | Project Close Out      |                      | Ability to limit the authorization to purge projects.  |
| Grants and Contracts | Post Award    | Project Close Out      |                      | Ability to maintain an audit trail of purged (deleted) projects.   |
| Grants and Contracts | Post Award    | Project Close Out      |                      | Ability to reject transactions from the payroll interface that occur after the award end date.   |
| Grants and Contracts | Post Award    | Project Close Out      |                      | Ability to reopen closed award.  |
| Grants and Contracts | Post Award    | Project Close Out      |                      | Allows restricted access for expenditure close out entries.  |
| Grants and Contracts | Post Award    | Related Accounts       | Cost Sharing         | Ability to create accounts to accumulate cost share data and link the account to the respective project account attributes and project accounts.                             |
| Grants and Contracts | Post Award    | Related Accounts       | Cost Sharing         | Ability to extract costs within cost share accounts based upon user defined parameters (including specified dates).  |
| Grants and Contracts | Post Award    | Related Accounts       | Fabrication Account: | Ability to create accounts to accumulate costs related to equipment fabrication.   |
| Grants and Contracts | Post Award    | Related Accounts       | Fabrication Account: | Ability to extract costs within equipment fabrication accounts and link to primary account.  |
| Grants and Contracts | Post Award    | Space Considerations   |                      | Ability to support resolution of space issues, new, renovations, locations, responsible party, cost recovery, etc.   |
| Grants and Contracts | Post Award    | Space Considerations   |                      | Provide details of accommodation requirements to support research activity or a project  |
| Grants and Contracts | Post Award    | Subawards              |                      | Ability to create reports or sort data based upon utilization of any and all data elements recorded with respect to subawards.   |
| Grants and Contracts | Post Award    | Subawards              |                      | Ability to define and generate close-out documents specifically related to subawards   |
| Grants and Contracts | Post Award    | Subawards              |                      | Ability to electronically ink subaward to prime agreement/project.   |
| Grants and Contracts | Post Award    | Subawards              |                      | Ability to electronically record data elements relative to subawards, such as project period, award amount, subarwdee, primary project, both primary and subawardee PI, etc. |
| Grants and Contracts | Post Award    | Subawards              |                      | Ability to generate electronic communication to responsible parties including selected data elements.  |
| Grants and Contracts | Post Award    | Subawards              |                      | Ability to have on-line viewing access to subaward status by users.  |
| Grants and Contracts | Post Award    | Subawards              |                      | Ability to identify subawardee status as to A-133 requirements and monitoring procedures.  |
| Grants and Contracts | Post Award    | Subawards              |                      | Ability to retain historical data relating to subawards.   |
| Grants and Contracts | Post Award    | Subawards              |                      | Ability to track electronically subaward billings & amounts invoiced against budget within subaward program.   |
| Grants and Contracts | Post Award    | Subawards              |                      | Ability to track electronically subawardee cost share commitments and compliance therewith.  |
| Grants and Contracts | Post Award    | Subawards              |                      | Ability to track specific compliance requirements, such as IRB approval, for subawards.  |
| Grants and Contracts | Post Award    | T&C                    |                      | Ability to identify and track existence of non-standard publication terms and conditions.  |
| Grants and Contracts | Pre Award     | Budget                 |                      | Ability to capture CSU cost share budget.  |

| <u>Requirement</u>   | <u>Module</u> | <u>SubModule</u>       | <u>Group</u> | <u>Text</u>  |
|----------------------|---------------|------------------------|--------------|--|
| Grants and Contracts | Pre Award     | Budget                 |              | Ability to capture/document 3rd party cost sharing budget commitments (flow this to post-award to track commitments.)  |
| Grants and Contracts | Pre Award     | Budget                 |              | Ability to create new proposal budgets from scratch or copied from existing budgets and then edited on a line item basis. Ability to inflate additional budget periods globally or by budget category, while retaining line item editing control. Capability for unlimited number of line items. Ability to create "fully-burdened" budgets. |
| Grants and Contracts | Pre Award     | Budget                 |              | Ability to establish date parameters for pre-award spending period (90 days prior to project period inception).  |
| Grants and Contracts | Pre Award     | Budget                 |              | Ability to establish early cost centers and allow for expenditures prior to formal receipt of award (i.e., pre-award and "at-risk" spending).  |
| Grants and Contracts | Pre Award     | Budget                 |              | Ability to provide "help pop-up boxes" to define budget fields in spreadsheet tool.  |
| Grants and Contracts | Pre Award     | Budget                 |              | Ability to provide a budget preparation tool that contains centrally defined rules and rates with flexibility to change as needed, and sub-level worksheets to calculate tuition, salary, materials & supplies, etc, feeding the main spreadsheet.   |
| Grants and Contracts | Pre Award     | Budget                 |              | Ability to provide an unlimited number of subprojects and subcontracts to a proposal; each with its own detailed budget that rolls up into the main budget. Project collaborators can be given access to create and edit their own subproject budgets.   |
| Grants and Contracts | Pre Award     | Budget                 |              | Ability to provide most recent sponsor-specific budget rules (NIH Modular, etc), including sponsor requirements for budget categories, cost sharing, DC and IDC caps, MEDCO categories, F&A rates, fringe benefits, etc. If a sponsor is not specified, default rules can be applied   |
| Grants and Contracts | Pre Award     | Budget                 |              | Ability to pull salary rates from payroll system into budget spreadsheet.  |
| Grants and Contracts | Pre Award     | Budget                 |              | Ability to set tolerances or limits on amount of pre-award spending allowed on an award / project.   |
| Grants and Contracts | Pre Award     | Budget                 |              | Budget tool should populate sponsor and institutional forms.   |
| Grants and Contracts | Pre Award     | Functionality          |              | Ability to auto populate throughout the system when data is changed  |
| Grants and Contracts | Pre Award     | Functionality          |              | Ability to define terminology, policy and restrictions throughout the system using pop-up bubble or similar help mechanism   |
| Grants and Contracts | Pre Award     | Online Query/Reporting |              | Provide global access to database of current status, workflow and history of proposal.   |
| Grants and Contracts | Pre Award     | Proposal Development   |              | Ability for automatic and authorized signature approval  |
| Grants and Contracts | Pre Award     | Proposal Development   |              | Ability for PI to notify SP when they obtain guidelines from other sources   |
| Grants and Contracts | Pre Award     | Proposal Development   |              | Ability to "copy" comments to other contract negotiations (other accounts) rather than each one individually (one at a time). Ability to "cut & paste".  |
| Grants and Contracts | Pre Award     | Proposal Development   |              | Ability to accommodate unlimited text on a proposal.   |
| Grants and Contracts | Pre Award     | Proposal Development   |              | Ability to associate an unlimited number of personnel to a proposal; storing personnel title, salutation and department.   |
| Grants and Contracts | Pre Award     | Proposal Development   |              | Ability to auto notify changes and expiration in regulatory approval status  |
| Grants and Contracts | Pre Award     | Proposal Development   |              | Ability to auto notify parties "linked" (PI, accountant, administrator, etc) to a specific project when an amendment to a solicitation and guidelines is posted  |
| Grants and Contracts | Pre Award     | Proposal Development   |              | Ability to auto populate both CSU and sponsor information including contact  |
| Grants and Contracts | Pre Award     | Proposal Development   |              | Ability to auto query sponsor sites for proposal/award status  |

| <u>Requirement</u>   | <u>Module</u> | <u>SubModule</u>     | <u>Group</u> | <u>Text</u>   |
|----------------------|---------------|----------------------|--------------|---|
| Grants and Contracts | Pre Award     | Proposal Development |              | Ability to automatically contact PI if there no activity one week prior to submit day   |
| Grants and Contracts | Pre Award     | Proposal Development |              | Ability to automatically tell signatories that action is required   |
| Grants and Contracts | Pre Award     | Proposal Development |              | Ability to auto-scan guidelines and extract recognized criteria   |
| Grants and Contracts | Pre Award     | Proposal Development |              | Ability to auto-update authorized signatories   |
| Grants and Contracts | Pre Award     | Proposal Development |              | Ability to configure multiple budget scenarios for a proposal and perform "what if" analysis.   |
| Grants and Contracts | Pre Award     | Proposal Development |              | Ability to copy from one proposal to another.   |
| Grants and Contracts | Pre Award     | Proposal Development |              | Ability to enter direct costs by account code or title.   |
| Grants and Contracts | Pre Award     | Proposal Development |              | Ability to flag those individuals who aren't eligible to be PI's and an automatic method for approval   |
| Grants and Contracts | Pre Award     | Proposal Development |              | Ability to have new faculty and staff registered as potential PI's  |
| Grants and Contracts | Pre Award     | Proposal Development |              | Ability to interface to Grants.gov Find process.  |
| Grants and Contracts | Pre Award     | Proposal Development |              | Ability to interface with the budget module.  |
| Grants and Contracts | Pre Award     | Proposal Development |              | Ability to match current proposals and awards to regulatory approval status   |
| Grants and Contracts | Pre Award     | Proposal Development |              | Ability to notify SP if there are a limited number of submissions allowed   |
| Grants and Contracts | Pre Award     | Proposal Development |              | Ability to notify SP when PI requests guidelines from the system and provide a copy or link to such guidelines to SP.   |
| Grants and Contracts | Pre Award     | Proposal Development |              | Ability to obtain signatures concurrently   |
| Grants and Contracts | Pre Award     | Proposal Development |              | Ability to provide a repository for vitae, publications, previous support, etc.   |
| Grants and Contracts | Pre Award     | Proposal Development |              | Ability to provide automated record of current information and new records daily  |
| Grants and Contracts | Pre Award     | Proposal Development |              | Ability to provide Investigator with request for proposal-type announcements/solicitations (RFP, RFQ, IFB, etc.) based upon pre-determined areas of interest. |
| Grants and Contracts | Pre Award     | Proposal Development |              | Ability to provide managed sponsored criteria   |
| Grants and Contracts | Pre Award     | Proposal Development |              | Ability to provide program guidelines electronically.   |
| Grants and Contracts | Pre Award     | Proposal Development |              | Ability to recognize those PI's who have dual or more appointments and involve cooperative extension  |
| Grants and Contracts | Pre Award     | Proposal Development |              | Ability to search for funding sources.  |
| Grants and Contracts | Pre Award     | Proposal Development |              | Ability to self-generate reports and queries  |
| Grants and Contracts | Pre Award     | Proposal Development |              | Ability to serve as database for proposal preparation.  |
| Grants and Contracts | Pre Award     | Proposal Development |              | Ability to stop process when required fields are not completed  |
| Grants and Contracts | Pre Award     | Proposal Development |              | Ability to store proposal type, category and sub-category.  |
| Grants and Contracts | Pre Award     | Proposal Development |              | Ability to support and maintain Grants.gov required form sets   |
| Grants and Contracts | Pre Award     | Proposal Development |              | Ability to support and maintain NIGH required form sets.  |
| Grants and Contracts | Pre Award     | Proposal Development |              | Allow personnel to belong to multiple business entities (by way of a split %), or a business unit other than that allocated in the HR System.                 |
| Grants and Contracts | Pre Award     | Proposal Development |              | Allows an unlimited number of client definable fields to capture essential information on a proposal.   |
| Grants and Contracts | Pre Award     | Proposal Development |              | Allows for multiple iterations of proposal budgets.   |
| Grants and Contracts | Pre Award     | Proposal Development |              | Applicants are not permitted to make any modifications after the proposal has been submitted into the approval process.                                       |
| Grants and Contracts | Pre Award     | Proposal Development |              | Automatically calculate fringe benefits, indirect costs and cost share within the budget process.   |

| <u>Requirement</u>   | <u>Module</u>         | <u>SubModule</u>                 | <u>Group</u> | <u>Text</u>  |
|----------------------|-----------------------|----------------------------------|--------------|--|
| Grants and Contracts | Pre Award             | Proposal Development             |              | Capacity for all named investigators on applications to have read only access to applications once submitted.  |
| Grants and Contracts | Pre Award             | Proposal Development             |              | Capacity for applicants to save and return to partly completed (non-submitted) proposals.  |
| Grants and Contracts | Pre Award             | Proposal Development             |              | Capacity for checking for duplicate awards.  |
| Grants and Contracts | Pre Award             | Proposal Development             |              | Capacity to generate and send email correspondence to PI on status of their projects   |
| Grants and Contracts | Pre Award             | Proposal Development             |              | During project data entry process, the project can be saved periodically to prevent data loss.   |
| Grants and Contracts | Pre Award             | Proposal Development             |              | Provides a tool to add, develop and/or maintain other Sponsor forms as required/needed.  |
| Grants and Contracts | Pre Award             | Proposal Development             |              | Provides interface with Payroll.   |
| Grants and Contracts | Pre Award             | Proposal Development             |              | Provides interface with Purchasing.  |
| Grants and Contracts | Pre Award             | Proposal Development             |              | Provides interface with Student system.  |
| Grants and Contracts | Pre Award             | Proposal Development             |              | Provides organizational security with the proposal process.  |
| Grants and Contracts | Pre Award             | Proposal Submission and Tracking |              | Ability to electronically submit reports.  |
| Grants and Contracts | Pre Award             | Proposal Submission and Tracking |              | Ability to enter and maintain proposal and budget information for submission to an agency.   |
| Grants and Contracts | Pre Award             | Proposal Submission and Tracking |              | Ability to maintain an applicant's primary mailing address and phone information.  |
| Grants and Contracts | Pre Award             | Proposal Submission and Tracking |              | Ability to monitor grant applications.   |
| Grants and Contracts | Pre Award             | Proposal Submission and Tracking |              | Ability to track events/reminders with automatic notification of when they are due.  |
| Grants and Contracts | Pre Award             | Proposal Submission and Tracking |              | Ability to track statistical data including number of proposals sent by Principal Investigator, Laboratory, Sponsoring Agency etc.   |
| Grants and Contracts | Pre Award             | Proposal Submission and Tracking |              | Allows for an unlimited number of client definable fields to capture essential information on a grant.   |
| Grants and Contracts | Pre Award             | Proposal Submission and Tracking |              | Proposal database must support unlimited number of user-defined fields plus unlimited user-created notes/comments  |
| Grants and Contracts | Pre Award             | Proposal Submission and Tracking |              | Proposal database should populate award account fields to reduce re-keying of information.   |
| Grants and Contracts | Pre Award             | Proposal Submission and Tracking |              | Provide for projects and project template set-up steps to be easy to define and maintain.  |
| Grants and Contracts | Pre Award             | Proposal Submission and Tracking |              | System allows routing/review/approval of human subject protocols by user-defined approvers.  |
| Grants and Contracts | Pre Award             | Proposal Submission and Tracking |              | System allows routing/review/approval of proposals by an unlimited number of approvers based on institutional hierarchy of responsibility.   |
| Grants and Contracts | Regulatory Compliance | Animal Lab                       |              | Ability to track animal acquisition by species, project and source.  |
| Grants and Contracts | Regulatory Compliance | IACUC Protocol Reporting         |              | Ability to report animal usage by USDA pain category   |
| Grants and Contracts | Regulatory Compliance | IACUC Protocol Reporting         |              | Ability to report animal usage by USDA species   |
| Grants and Contracts | Regulatory Compliance | IACUC Protocol Reporting         |              | Ability to report by procedures  |
| Grants and Contracts | Regulatory Compliance | IACUC Protocol Reporting         |              | Ability to report protocols by drug use (anesthetics, pain meds, antibiotics, etc.)  |
| Grants and Contracts | Regulatory Compliance | IACUC Protocol Reporting         |              | Ability to report protocols with special conditions (physical restraint, food restriction, fluid restriction, major multiple survival surgeries, paralytics, hazards, unrelieved pain, noise levels, reduced space, temperature, humidity, individual housing, etc.) |

| <u>Requirement</u>   | <u>Module</u>         | <u>SubModule</u>         | <u>Group</u> | <u>Text</u>  |
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| Grants and Contracts | Regulatory Compliance | IACUC Protocol Reporting |              | Ability to report use locations by procedure (housing, necropsy, cage wash)  |
| Grants and Contracts | Regulatory Compliance | Lab Animal Resources     |              | Ability to automate laboratory animal resource billing system.   |
| Grants and Contracts | Regulatory Compliance | Protocol Management      |              | Ability for reviewers to annotate protocols with public or private comments  |
| Grants and Contracts | Regulatory Compliance | Protocol Management      |              | Ability to amend/modify protocols on-line.   |
| Grants and Contracts | Regulatory Compliance | Protocol Management      |              | Ability to copy all or portions of an exiting protocol to create a new protocol.   |
| Grants and Contracts | Regulatory Compliance | Protocol Management      |              | Ability to cut and paste from other programs, such as Word, into protocol document as well as attach documents.  |
| Grants and Contracts | Regulatory Compliance | Protocol Management      |              | Ability to identify protocols used as a teaching resource  |
| Grants and Contracts | Regulatory Compliance | Protocol Management      |              | Ability to identify protocols with exemptions to regulations or policies   |
| Grants and Contracts | Regulatory Compliance | Protocol Management      |              | Ability to search protocols by funding source  |
| Grants and Contracts | Regulatory Compliance | Protocol Management      |              | Ability to search protocols by investigator, co-investigator, and other key persons identified   |
| Grants and Contracts | Regulatory Compliance | Protocol Management      |              | Ability to search protocols by title, investigator, location, department, expiration date, renewal date, and review date   |
| Grants and Contracts | Regulatory Compliance | Protocol Management      |              | Ability to send automated renewal notices to responsible parties.  |
| Grants and Contracts | Regulatory Compliance | Protocol Management      |              | Ability to send notices to responsible party regarding protocol status and action(s) needed, if any.   |
| Grants and Contracts | Regulatory Compliance | Protocol Management      |              | Ability to submit protocols on-line.   |
| Grants and Contracts | Regulatory Compliance | Protocol Management      |              | Ability to support federal compliance requirements relating to animal care and use.  |
| Grants and Contracts | Regulatory Compliance | Protocol Management      |              | Ability to support federal compliance requirements relating to animal facilities.  |
| Grants and Contracts | Regulatory Compliance | Protocol Management      |              | Ability to support federal compliance requirements relating to biohazard materials.  |
| Grants and Contracts | Regulatory Compliance | Protocol Management      |              | Ability to support federal compliance requirements relating to human subjects.   |
| Grants and Contracts | Regulatory Compliance | Protocol Management      |              | Ability to support federal compliance requirements relating to radiation safety.   |
| Grants and Contracts | Regulatory Compliance | Protocol Management      |              | Ability to support federal compliance requirements relating to select agents.  |
| Grants and Contracts | Regulatory Compliance | Protocol Management      |              | Ability to supports paperless reviews  |
| Grants and Contracts | Regulatory Compliance | Protocol Management      |              | Ability to track each protocol to the specific proposal/award.   |
| Grants and Contracts | Regulatory Compliance | Protocol Management      |              | Ability to track users/participants (investigators) in the projects: animal subjects, human subjects, biohazards, controlled drugs, select agents, radioactive materials |
| Grants and Contracts | Regulatory Compliance | Protocol Management      |              | Ability to track users/participants (investigators) in the projects: animals   |
| Grants and Contracts | Regulatory Compliance | Protocol Management      |              | Ability to track users/participants (investigators) in the projects: biohazards  |
| Grants and Contracts | Regulatory Compliance | Protocol Management      |              | Ability to track users/participants (investigators) in the projects: controlled drugs  |
| Grants and Contracts | Regulatory Compliance | Protocol Management      |              | Ability to track users/participants (investigators) in the projects: human subjects  |
| Grants and Contracts | Regulatory Compliance | Protocol Management      |              | Ability to track users/participants (investigators) in the projects: radioactive materials   |

| <u>Requirement</u>   | <u>Module</u>            | <u>SubModule</u>            | <u>Group</u> | <u>Text</u>  |
|----------------------|--------------------------|-----------------------------|--------------|--|
| Grants and Contracts | Regulatory Compliance    | Protocol Management         |              | Ability to track users/participants (investigators) in the projects: select agents   |
| Grants and Contracts | Regulatory Compliance    | Protocol Management         |              | Allows for complex routing schemes   |
| Grants and Contracts | Regulatory Compliance    | Protocol Management         |              | Online calendars enable simple navigation from meetings to agendas to protocols  |
| Grants and Contracts | Regulatory Compliance    | Protocol Management         |              | Simplifies production of agendas and minutes   |
| Grants and Contracts | Regulatory Compliance    | Workflow                    |              | Ability to identify records requiring Federal compliance for proposal submission (IRB, Biohazard, IACUC).  |
| Grants and Contracts | Tech Transfer            |                             |              | Ability to identify and track existence of non-standard intellectual property terms and conditions.  |
| Grants and Contracts | Tech Transfer            |                             |              | Ability to support invention disclosure, patents, and intellectual property..  |
| Grants and Contracts | Tech Transfer            |                             |              | Complete financial management - charge accounts, invoice agreements, age invoices, post receivables and distribute income  |
| Grants and Contracts | Tech Transfer            |                             |              | Includes email and document management systems for associating all communications  |
| Grants and Contracts | Tech Transfer            |                             |              | Manages in-licensing for research  |
| Grants and Contracts | Tech Transfer            |                             |              | Supports multiple national and international patent applications per disclosure  |
| Grants and Contracts | Tech Transfer            |                             |              | Tracks expenses and royalties globally or by inventor, disclosure, patent, agreement, etc  |
| Grants and Contracts | Tech Transfer            |                             |              | Tracks multiple agreements per disclosure and multiple disclosures per agreement   |
| Grants and Contracts | Training                 |                             |              | Ability to track required research-related training through web interface including training development and history of course completion for individuals.                               |
| Grants and Contracts | Work Flow                |                             |              | Ability to support mentor review, budget development, F&A functions, Reps & Carts, Cost Share identification   |
| Grants and Contracts | Work Flow                |                             |              | Provide ability to approve transactions to grant and contract funds via workflow system and institutional rules.   |
| Grants and Contracts | Work Flow                |                             |              | Upon login, user can easily identify pending transactions/actions.   |
| Grants and Contracts | Workflow                 |                             |              | Identifies university defined routing paths and signatures (compliance, special resources, cost-sharing etc.)  |
| Grants and Contracts | Workflow                 |                             |              | Specialized, Web-based modules streamline communications with researchers  |
| Grants and Contracts | Workflow                 |                             |              | Supports paperless approval process with electronic signatures.  |
| Tech Reqs            | Application Software and | System Access and Usability |              | Provides clear, comprehensive and user-friendly error messages at the screen field levels the fully describe the situation that caused the error and the action necessary to correct it. |
| Tech Reqs            | Application Software and | System Access and Usability |              | Provides online help for all applications "out of the box".  |
| Tech Reqs            | Application Software and | System Access and Usability |              | Provides customizable online help for all applications.  |
| Tech Reqs            | Application Software and | System Access and Usability |              | Ability to add/delete users for particular functions.  |
| Tech Reqs            | Application Software and | System Access and Usability |              | Ability for each user to create and customize their own menu that is comprised of the processes that they perform.   |
| Tech Reqs            | Application Software and | System Access and Usability |              | Ability to copy a personal menu from one user to another.  |
| Tech Reqs            | Application Software and | System Access and Usability |              | Ability to load the rules for city, state, county, and national defaults based on a ZIP/Postal code.   |

| <u>Requirement</u> | <u>Module</u>            | <u>SubModule</u>            | <u>Group</u> | <u>Text</u>   |
|--------------------|--------------------------|-----------------------------|--------------|---|
| Tech Reqs          | Application Software and | System Access and Usability |              | Ability to establish security profiles for a user or group of users. Each user profile can distinguish between what a user can see, update, delete, and/or add. Security profiles can be copied from one user (or group of users) to another user (or group). |
| Tech Reqs          | Application Software and | Key Operational Features    |              | Allows for the use something other than an SSN as a unique person identifier.   |
| Tech Reqs          | Application Software and | Key Operational Features    |              | Updates all related modules with a single entry (e.g. account number change).   |
| Tech Reqs          | Application Software and | Key Operational Features    |              | Provides the ability to track date-effective changes through out all the applications.  |
| Tech Reqs          | Application Software and | Key Operational Features    |              | Provides the ability to drill down to lowest level source entry across application modules.   |
| Tech Reqs          | Application Software and | Key Operational Features    |              | Provides the ability to drill down to access third party and legacy data.   |
| Tech Reqs          | Application Software and | Key Operational Features    |              | Provides alternate field lookup e.g., vendor name to locate vendor number.  |
| Tech Reqs          | Application Software and | Key Operational Features    |              | Supports multiple concurrent application sessions for each user.  |
| Tech Reqs          | Application Software and | Key Operational Features    |              | Incorporates business rules into the system such that the rules are applied at the time information is entered.   |
| Tech Reqs          | Application Software and | Key Operational Features    |              | Warnings are triggered when future dated transactions being entered could disrupt a related transaction.  |
| Tech Reqs          | Application Software and | Key Operational Features    |              | Differentiates between data corrections (global change/fix) versus date-driven changes based on policy. School of Engineering changing to the College of Engineering is an example of the later.  |
| Tech Reqs          | Application Software and | Key Operational Features    |              | Provides the ability to maintain several internal calendars to use in processing. FY, AY, FED FY, Pay Calendars, Holiday, etc.  |
| Tech Reqs          | Application Software and | Key Operational Features    |              | Implements relational integrity constraints into the database.  |
| Tech Reqs          | Application Software and | Key Operational Features    |              | Must provide process for maintenance/correction of unique person identifiers (eg: one person assigned more than one unique id or two people assigned the same unique id)  |
| Tech Reqs          | Application Software and | Key Operational Features    |              | Provides the ability to uniquely identify an individual. If an employee becomes a vendor, the system should find the employee already in the data base.   |
| Tech Reqs          | Application Software and | Key Operational Features    |              | Warnings are triggered when future dated transactions being entered could disrupt a related transaction.  |
| Tech Reqs          | Application Software and | Key Operational Features    |              | System should allow identity established in ERP to be shared with third party applications that must also use same identity (PUID).   |
| Tech Reqs          | Application Software and | Transaction Processing      |              | Supports the needs of infrequent or low volume users as well as those who use the system several hours each day.  |
| Tech Reqs          | Application Software and | Transaction Processing      |              | Ability to make changes to data or the status of processes immediately available in the system.   |
| Tech Reqs          | Application Software and | Transaction Processing      |              | Supports effective dating for transactions, including both future and retroactive changes.  |
| Tech Reqs          | Application Software and | Transaction Processing      |              | Supports mass changes to definable groupings of transactions, e.g., process a reduction in all excess leave balances on January 1.  |
| Tech Reqs          | Application Software and | Transaction Processing      |              | Identifies errors, inconsistencies or additional requirements at the time data is entered.  |
| Tech Reqs          | Application Software and | Transaction Processing      |              | Suspends processing of an erroneous transaction until the problem is resolved in real time.   |

| <u>Requirement</u> | <u>Module</u>                                   | <u>SubModule</u>         | <u>Group</u> | <u>Text</u>  |
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| Tech Reqs          | Application Software and Transaction Processing |                          |              | Provides an option for coding reduction techniques or tools to significantly reduce the amount of data entry required on a transaction and the likelihood of data entry errors.                        |
| Tech Reqs          | Application Software and Transaction Processing |                          |              | Ability to enable validation rules that are highly configurable depending on the transaction, location, or funding source.   |
| Tech Reqs          | Security  |                          |              | Provides the ability to restrict access by job function.   |
| Tech Reqs          | Security  |                          |              | Provides the ability to restrict access by application program.  |
| Tech Reqs          | Security  |                          |              | Provides the ability to restrict access by function (read, add, delete, modify).   |
| Tech Reqs          | Security  |                          |              | Provides the ability to suppress menu options for functions for which a user does not have access.   |
| Tech Reqs          | Security  |                          |              | Protects certain fields, e.g., social security number, from unauthorized access.   |
| Tech Reqs          | Security  |                          |              | Restricts access to certain functions and protects the data until they are approved by policy makers, e.g. budget scenarios that are created for analysis prior to publishing a formal recommendation. |
| Tech Reqs          | Security  |                          |              | Triggers an automatic review of an employee's security privileges upon changes in assignment or termination.   |
| Tech Reqs          | Security  |                          |              | Maintains comprehensive logs of transactions and security incidents for auditing purposes.   |
| Tech Reqs          | Security  |                          |              | Systems should be capable of operating in a secure firewall network with private IP addresses.   |
| Tech Reqs          | Workflow  | Key Operational Features |              | Provides robust inbox capabilities for each workflow recipient to organize and prioritize the items in the work queue while providing status on each work item.  |
| Tech Reqs          | Workflow  | Key Operational Features |              | Replaces paper-based processes like expense reports and automate communication processes such as error or deadline notifications and approvals.  |
| Tech Reqs          | Workflow  | Key Operational Features |              | Provides standard approval timeframes and alternative approval paths along with reminders for overdue tasks.   |
| Tech Reqs          | Workflow  | Key Operational Features |              | Supports the automated distribution of electronic documents to individuals in an efficient manner.   |
| Tech Reqs          | Workflow  | Key Operational Features |              | Accommodates both enterprise business rules to define the flow of work as well as department- or college-specific policies.  |
| Tech Reqs          | Workflow  | Key Operational Features |              | Provides information about the status of workflow transactions so participants can determine where information or actions may be delayed.  |
| Tech Reqs          | Workflow  | Key Operational Features |              | Provides user-definition and maintenance of business rules without requiring programmer intervention or recompilation of programs.   |
| Tech Reqs          | Workflow  | Key Operational Features |              | Provides support for digital signatures as part of workflow request, review, and approval processes.   |
| Tech Reqs          | Workflow  | Key Operational Features |              | Provides the ability to capture non-textual information where necessary to support the business process, e.g., for example, a scanned image of a vendor invoice.                                       |
| Tech Reqs          | Workflow  | Key Operational Features |              | Provides the ability to attach notes to content items within the workflow, and for these notes to remain until final submission.   |
| Tech Reqs          | Workflow  | Key Operational Features |              | Provides the ability for employees and authorized external entities to be part of a workflow.  |
| Tech Reqs          | Workflow  | Key Operational Features |              | Provides integrated workflow error handling.   |

| <u>Requirement</u> | <u>Module</u> | <u>SubModule</u>         | <u>Group</u> | <u>Text</u>  |
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| Tech Reqs          | Workflow      | Key Operational Features |              | Supports multiple workflows based on content type.   |
| Tech Reqs          | Workflow      | Key Operational Features |              | Supports standard APIs for integrating with workflow.  |
| Tech Reqs          | Workflow      | Key Operational Features |              | Provides access to workflows through standard web browser clients.   |
| Tech Reqs          | Workflow      | Key Operational Features |              | Provides the ability for users to authenticate themselves to participate in workflows.   |
| Tech Reqs          | Workflow      | Key Operational Features |              | Requires that users be authorized to add workflows to the production environment.  |
| Tech Reqs          | Workflow      | Key Operational Features |              | Provides access security to control what workflows and workflow steps authenticated users can participate in.  |
| Tech Reqs          | Workflow      | Key Operational Features |              | Provides access security to control workflow check-in/check-out for authorized workflow developers.  |
| Tech Reqs          | Workflow      | Key Operational Features |              | Ability to add departmentally specific approvers to workflow that can differ by department and/or campus.  |
| Tech Reqs          | Workflow      | Key Operational Features |              | Ability to add participants to a workflow as either approvers or viewers on an ad hoc basis.   |
| Tech Reqs          | Workflow      | Key Operational Features |              | Allows for additional approver steps to be added into a workflow by authorized individuals.  |
| Tech Reqs          | Workflow      | Key Operational Features |              | Allows work flow to be extended to third party applications.   |
| Tech Reqs          | Workflow      | Workflow Administration  |              | Provides tools to monitor workflow processing.   |
| Tech Reqs          | Workflow      | Workflow Administration  |              | Provides tools to set the priority of workflows and the amount of system resources allocated to them.  |
| Tech Reqs          | Workflow      | Workflow Administration  |              | Provides tools to specify that workflow task notifications be delivered to specific named persons.   |
| Tech Reqs          | Workflow      | Workflow Administration  |              | Provides tools to assign individual users to workflow processing roles.  |
| Tech Reqs          | Workflow      | Workflow Administration  |              | Provides tools to specify that workflow task notifications be delivered to a workflow processing role.   |
| Tech Reqs          | Workflow      | Workflow Administration  |              | Provides tools to specify that workflow task notifications be delivered to users through a workflow notifications web-page.  |
| Tech Reqs          | Workflow      | Workflow Administration  |              | Provides tools to specify that workflow task notifications be delivered to users through standard e-mail.  |
| Tech Reqs          | Workflow      | Workflow Administration  |              | Provides tools to enable workflow participants to forward their incoming workflow task notifications to others, e.g., while a person is on vacation.                     |
| Tech Reqs          | Workflow      | Workflow Administration  |              | Provides tools to support workflow analysis for workflow process improvement.  |
| Tech Reqs          | Workflow      | Workflow Administration  |              | Provides an integrated workflow administration console, accessible through standard web browser clients, for the operational administration of applications.             |
| Tech Reqs          | Workflow      | Workflow Administration  |              | Provides administrative functions for adding new roles and users to the workflow.  |
| Tech Reqs          | Workflow      | Workflow Administration  |              | Supports users with multiple roles.  |
| Tech Reqs          | Workflow      | Workflow Administration  |              | Provides a workflow administration function that allows marking resources on a workflow as unavailable, for example, "on vacation".                                      |
| Tech Reqs          | Workflow      | Workflow Administration  |              | Allows for the assignment of other resources to an unavailable role for a determined period.   |
| Tech Reqs          | Workflow      | Workflow Administration  |              | Ability for supervisors to access employee's inboxes to support performance monitoring and/or emergency access to work in process if an employee is absent unexpectedly. |

| <u>Requirement</u> | <u>Module</u> | <u>SubModule</u>                | <u>Group</u> | <u>Text</u>  |
|--------------------|---------------|---------------------------------|--------------|--|
| Tech Reqs          | Workflow      | Workflow Administration         |              | Ability to immediately suspend an employee's access in real time in the event of a termination.  |
| Tech Reqs          | Workflow      | Workflow Administration         |              | Ability to support training roles to enable supervisors to observe a new employee's work.  |
| Tech Reqs          | Workflow      | Workflow Administration         |              | Allows for assignment of workflow privileges to roles based on position instead of to individuals.   |
| Tech Reqs          | Workflow      | Workflow Administration         |              | Allows for the assignment of individuals to roles.   |
| Tech Reqs          | Workflow      | Workflow Administration         |              | Definition of organizational structure information to support workflows (users, user relationships to organizational units, roles, etc.) is fully integrated with an overall role-based security model and does not require maintenance in separate facility dedicated solely to workflow. |
| Tech Reqs          | Workflow      | Workflow Administration         |              | Ability to integrate with the HR position information so that a job change triggers an update of role assignment.  |
| Tech Reqs          | Workflow      | Workflow Administration         |              | Provides administrative tools for changing the state of a "running" instance of a workflow.  |
| Tech Reqs          | Workflow      | Workflow Administration         |              | Provides an audit trail of steps performed in a workflow.  |
| Tech Reqs          | Workflow      | Workflow Administration         |              | Start and stop timestamps of each workstep or function are captured by the workflow services.  |
| Tech Reqs          | Workflow      | Workflow Administration         |              | Steps, or tasks within an instance of a workflow record start and stop timestamps.   |
| Tech Reqs          | Workflow      | Workflow Administration         |              | Workflow services must be open so that processes involving external applications (either developed or purchase or some combination) can be workflow enabled using these services.  |
| Tech Reqs          | Workflow      | Workflow Design and Development |              | Provides an integrated development environment for the design and development of workflows.  |
| Tech Reqs          | Workflow      | Workflow Design and Development |              | Provides access to the workflow integrated development environment through standard web browsers.  |
| Tech Reqs          | Workflow      | Workflow Design and Development |              | Provides for the extension and/or customization of workflow applications developed with the workflow integrated development environment.   |
| Tech Reqs          | Workflow      | Workflow Design and Development |              | Provides tools to develop workflows that insert, view, update, and delete data in the proposed backend DBMS.   |
| Tech Reqs          | Workflow      | Workflow Design and Development |              | Provides tools to develop workflows that insert, view, update, and delete data in foreign databases using ODBC.  |
| Tech Reqs          | Workflow      | Workflow Design and Development |              | Provides tools to design and develop workflows graphically.  |
| Tech Reqs          | Workflow      | Workflow Design and Development |              | Provides tools to develop sub-workflows graphically and to use/reuse sub-workflows as parts of larger more complex workflows.  |
| Tech Reqs          | Workflow      | Workflow Design and Development |              | Provides a "drill-down" capability from high level graphical views of workflows to more detailed graphical views of sub-workflows.   |
| Tech Reqs          | Workflow      | Workflow Design and Development |              | Provides tools to develop workflows that branch into parallel activities and then rendezvous to a single activity.   |
| Tech Reqs          | Workflow      | Workflow Design and Development |              | Provides tools to develop workflows that use a voting scheme as a mechanism for conditionally determining what subsequent processing activities are to take place in workflows.  |
| Tech Reqs          | Workflow      | Workflow Design and Development |              | Provides tools to develop workflows that respond to workflow activity timeout parameters, e.g., send exception activity to service staff.  |
| Tech Reqs          | Workflow      | Workflow Design and Development |              | Provides tools to develop workflows that conditionally branch to alternate workflow activities.  |

| <u>Requirement</u> | <u>Module</u>    | <u>SubModule</u>                | <u>Group</u> | <u>Text</u>  |
|--------------------|------------------|---------------------------------|--------------|--|
| Tech Reqs          | Workflow         | Workflow Design and Development |              | Provides tools to develop workflow applications that request and consume XML documents thus effecting a database independent data access layer between forms application processing and access to the backend databases. |
| Tech Reqs          | Workflow         | Workflow Design and Development |              | Provides tools to develop workflows that insert, view, update, and delete data in foreign databases using vendor developed gateways such that the foreign databases look like the proposed backend DBMS.                 |
| Tech Reqs          | Workflow         | Workflow Design and Development |              | Provides tools to manage versions of workflows.  |
| Tech Reqs          | Workflow         | Workflow Design and Development |              | Provides tools to support check-out/check-in processing for workflow maintenance.  |
| Tech Reqs          | Workflow         | Event Processing                |              | Provides tools to develop workflows that publish events.   |
| Tech Reqs          | Workflow         | Event Processing                |              | Provides tools to develop workflows that subscribe to published events.  |
| Tech Reqs          | Workflow         | Event Processing                |              | Provides tools to develop workflows that respond to subscribed events by initiating the execution of custom code.  |
| Tech Reqs          | Workflow         | Event Processing                |              | Provides tools to develop workflows that respond to subscribed events by initiating the execution of other workflows.  |
| Tech Reqs          | Workflow         | Event Processing                |              | Provides automatic notification when a specified event occurs such as when a department's line item expenditures have reached a trigger level specified by the district.   |
| Tech Reqs          | Workflow         | Event Processing                |              | Can send and receive business events via EJB interface.  |
| Tech Reqs          | Workflow         | Event Processing                |              | Can send and receive business events via SOAP (XML over HTTP/HTTPS).   |
| Tech Reqs          | Workflow         | Event Processing                |              | Can send and receive business events via standard message oriented middleware (MQ Series, MessageOne, etc.)  |
| Tech Reqs          | Workflow         | Event Processing                |              | Can send and receive business events via structured e-mail.  |
| Tech Reqs          | Workflow         | Event Processing                |              | Provides a robust programming language that can access and transform business event data   |
| Tech Reqs          | Report Generator | Key Operational Features        |              | Provides an integrated reporting capability.   |
| Tech Reqs          | Report Generator | Key Operational Features        |              | Report applications are accessed through standard web browser clients.   |
| Tech Reqs          | Report Generator | Key Operational Features        |              | Requires users to authenticate themselves to access report applications.   |
| Tech Reqs          | Report Generator | Key Operational Features        |              | Provides access security to control what reports authenticated users can execute.  |
| Tech Reqs          | Report Generator | Key Operational Features        |              | Provides access security to control application check-in/check-out for authorized report application developers.   |
| Tech Reqs          | Report Generator | Key Operational Features        |              | Provides the ability to do run time selection criteria, sort order, report format and variation, etc.  |
| Tech Reqs          | Report Generator | Key Operational Features        |              | Provides comprehensive reporting tools that allow for easy access to authorized data.  |
| Tech Reqs          | Report Generator | Key Operational Features        |              | Provides executive interfaces to the data with "drill down" capability to examine details.   |
| Tech Reqs          | Report Generator | Key Operational Features        |              | Creates reports that reflect status as of a specified point in time.   |
| Tech Reqs          | Report Generator | Key Operational Features        |              | Includes standard reports that will serve as models for customized reporting as well as provide for basic functional reports.  |
| Tech Reqs          | Report Generator | Key Operational Features        |              | Provides report wizards or similar techniques to guide users through report creation.  |
| Tech Reqs          | Report Generator | Key Operational Features        |              | Ensures that reporting activities do not compromise the responsiveness of the interactive system.  |
| Tech Reqs          | Report Generator | Key Operational Features        |              | Provides the ability to run reports online or in the background.   |

| <u>Requirement</u> | <u>Module</u>    | <u>SubModule</u>                  | <u>Group</u> | <u>Text</u>   |
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| Tech Reqs          | Report Generator | Key Operational Features          |              | Provides the ability to send reports via email to other users.  |
| Tech Reqs          | Report Generator | Key Operational Features          |              | Provides the ability to deliver fixed reports to users on a pre-determined schedule to be reviewed online, to be retained online or to be printed at the user's discretion.   |
| Tech Reqs          | Report Generator | Key Operational Features          |              | Ability to add new reports to a report library and to a common report menu.   |
| Tech Reqs          | Report Generator | Key Operational Features          |              | Ability to use third party query and reporting tools to access application tables.  |
| Tech Reqs          | Report Generator | Key Operational Features          |              | Ability to trigger reports (e.g., tracking) based on events such as date, time or comparison between data items.  |
| Tech Reqs          | Report Generator | Key Operational Features          |              | Provides the ability to print reports on local PC and LAN attached printers as well as on centralized high-speed printers.  |
| Tech Reqs          | Report Generator | Key Operational Features          |              | Provides a method for managing the print environment for report distribution so that reports are directed to the appropriate print facility.  |
| Tech Reqs          | Report Generator | Analytic Tools and Search Engines |              | Supports the easy movement of data to specialized analysis tools such as SAS and Microsoft Office.  |
| Tech Reqs          | Report Generator | Analytic Tools and Search Engines |              | Produces "what if" scenarios to support decision-making.  |
| Tech Reqs          | Report Generator | Analytic Tools and Search Engines |              | Provides the ability to locate information or text through a search capability.   |
| Tech Reqs          | Report Generator | Analytic Tools and Search Engines |              | Provides the ability to Include or exclude content for search capability by various criteria, e.g., to tag content as available, or not available, to each search function on the site.   |
| Tech Reqs          | Data Warehouse   |                                   |              | Provides a robust logical data model to serve as the foundation for a physical data warehouse for each enterprise application.  |
| Tech Reqs          | Data Warehouse   |                                   |              | Ability to provide a data source to support the institution's reporting requirements and management decisions that is separate from its operational systems and that is subject oriented, integrated, consistent, time-variant, and non-volatile. |
| Tech Reqs          | Data Warehouse   |                                   |              | Ability to cleanse and otherwise transform data for incorporation into a common and consistent data warehouse environment.  |
| Tech Reqs          | Data Warehouse   |                                   |              | Ability to accurately load data to the data warehouse environment.  |
| Tech Reqs          | Data Warehouse   |                                   |              | Ability to develop and effectively maintain a central metadata repository.  |
| Tech Reqs          | Data Warehouse   |                                   |              | Ability to develop a single data warehouse and if desired conformed data-marts or operational data store components managed by and conforming to elements contained in a central metadata repository.   |
| Tech Reqs          | Data Warehouse   |                                   |              | Ability to build the data warehouse incrementally.  |
| Tech Reqs          | Data Warehouse   |                                   |              | Ability to store and make data available at the atomic level or in various aggregate forms.   |
| Tech Reqs          | Data Warehouse   |                                   |              | Ability to access, combine, and use data across organizational lines and structures.  |
| Tech Reqs          | Data Warehouse   |                                   |              | Ability to expand, shape, and otherwise grow the data warehouse in response to evolving user needs.   |
| Tech Reqs          | Data Warehouse   |                                   |              | Ability to add various components and tools—including customized components and tools—that were not included in as part of the original data warehouse package.   |
| Tech Reqs          | Data Warehouse   |                                   |              | Ability to provide users with access to data and analytic tools on a distributive basis via portal technology.  |

| <u>Requirement</u> | <u>Module</u>         | <u>SubModule</u> | <u>Group</u> | <u>Text</u>  |
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| Tech Reqs          | Data Warehouse        |                  |              | Ability to secure the data warehouse and allow user access to the data and analytical tools on an approved only basis.   |
| Tech Reqs          | Data Warehouse        |                  |              | Ability to provide users with on-line resources to understand data definitions, values, business rules, and to otherwise receive help in using the data warehouse and analytic tools.  |
| Tech Reqs          | Data Warehouse        |                  |              | Ability to provide end-user access via user friendly, high speed query tools to produce ad hoc reports and routine/standard reports as well as provide users with access to more sophisticated business intelligence tools such as data mining, trend analysis and data visualization tools.               |
| Tech Reqs          | Data Warehouse        |                  |              | Ability to provide users with analytic applications such as web-based dashboards and scorecards to monitor key performance indicators on a regular basis.  |
| Tech Reqs          | Data Warehouse        |                  |              | Ability to secure data warehouse technology that supports sufficient flexibility to enable definition of the data warehouse on the basis of actual business requirements and not heavily driven by technology limitations.   |
| Tech Reqs          | Data Warehouse        |                  |              | Ability to identify and report on possible/probable person identity conflicts and/or probable duplicate records based upon evaluation of a key set of parameters.  |
| Tech Reqs          | Data Warehouse        |                  |              | Ability to provide predictive feedback (number of rows, processing time estimates) to users as they build reports that will help them understand whether they're defining the report they're expecting to get.   |
| Tech Reqs          | Accessibility Support |                  |              | Provides the ability to prepare a text equivalent for every non-text element, e.g., via "alt", "longdesc", or in element content.  |
| Tech Reqs          | Accessibility Support |                  |              | Provides the ability to design web pages so that all information conveyed with color is also available without color, for example from context or markup.  |
| Tech Reqs          | Accessibility Support |                  |              | Provides the ability to organize documents so they are readable without requiring an associated style sheet.   |
| Tech Reqs          | Accessibility Support |                  |              | Provides the ability to offer redundant text links for each active region of a server-side image map.  |
| Tech Reqs          | Accessibility Support |                  |              | Provides the ability to offer client-side image maps instead of server-side image maps except where the regions cannot be defined with an available geometric shape.   |
| Tech Reqs          | Accessibility Support |                  |              | Provides the ability to identify row and column headers for data tables.   |
| Tech Reqs          | Accessibility Support |                  |              | Provides the ability to use markup to associate data cells and header cells for data tables that have two or more logical levels of row or column headers.   |
| Tech Reqs          | Accessibility Support |                  |              | Provides the ability to title frames with text that facilitates frame identification and navigation.   |
| Tech Reqs          | Accessibility Support |                  |              | Provides the ability to design pages to avoid causing the screen to flicker with a frequency greater than 2 Hz and lower than 55 Hz.   |
| Tech Reqs          | Accessibility Support |                  |              | Provides the ability to prepare a text-only page, with equivalent information or functionality, to make a web site comply with the provisions of this part, when compliance cannot be accomplished in any other way. The content of the text-only page shall be updated whenever the primary page changes. |
| Tech Reqs          | Accessibility Support |                  |              | Provides the ability to utilize scripting languages to display content, or to create interface elements.   |

| <u>Requirement</u> | <u>Module</u>         | <u>SubModule</u> | <u>Group</u> | <u>Text</u>   |
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| Tech Reqs          | Accessibility Support |                  |              | Provides the ability to identify the information prepared by a scripting language with functional text that can be read by assistive technology.  |
| Tech Reqs          | Accessibility Support |                  |              | Provides the ability to develop a link to a plug-in or applet that complies with §1194.21(a) through (l) when a web page requires that an applet, plug-in or other application be present on the client system to interpret page content. |
| Tech Reqs          | Accessibility Support |                  |              | Provides the ability to allow people using assistive technology to access the information, field elements, and functionality required for completion and submission of an electronic form, including all directions and cues.             |
| Tech Reqs          | Accessibility Support |                  |              | Provides a method that permits users to skip repetitive navigation links.   |
| Tech Reqs          | Accessibility Support |                  |              | Provides the ability to alert a user when a timed response is required and gives sufficient time to indicate more time is required.   |