Preliminary Design

Siena College Catalog Project

December 7, 2004

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8:15 AM

Siena College Catalog Database Preliminary Design

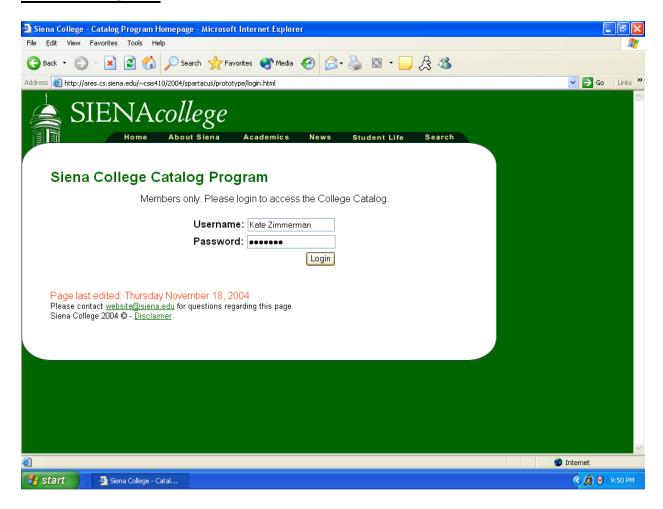
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1.1: User Displays and Report Formats

Screen for Any User

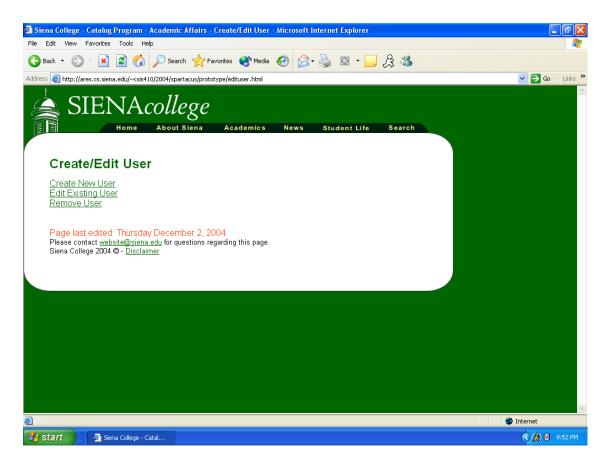


The login screen is the first screen that users will encounter. The login screen contains two fields: the username and the password. After the user enters their username and password into their respective fields, the system verifies the username and password to make sure they are valid before taking the user to their next respective screen.

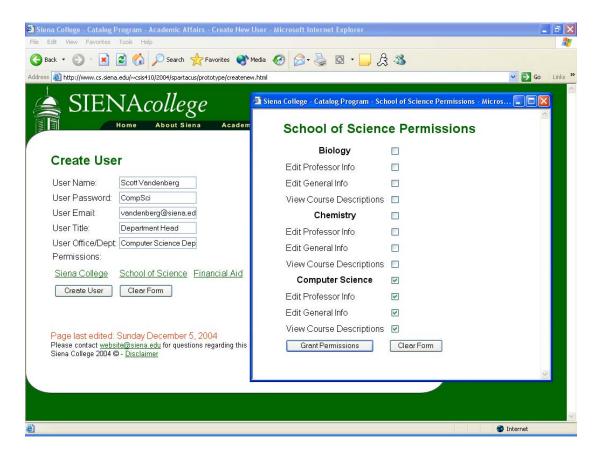
Academic Affairs Screens



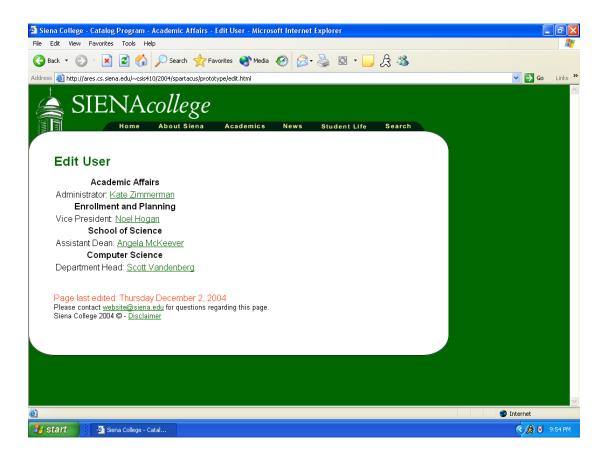
This page is the root page for the Academic Affairs administrator. The page contains links to the pages that allow the user to do various tasks; these links are *Create or Edit Users*, *Check User Progress*, *Edit Catalog*, *Generate Publisher's Copy*, and *View Current Catalog*. The *Generate Publisher's Copy* link when clicked compiles all of the catalog data into a document that can be sent electronically to the publisher. The *View Current Catalog* link when clicked opens up a new window with the current version of the catalog displayed. All other links are described on the following pages.



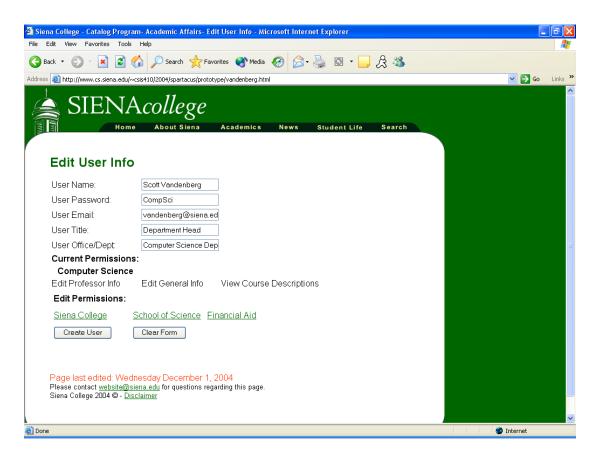
When the user clicks on the *Create or Edit Users* link (on the main Academic Affairs webpage), they are taken to this page, which displays links to other pages that allow the Academic Affairs administrator to perform various tasks on users.



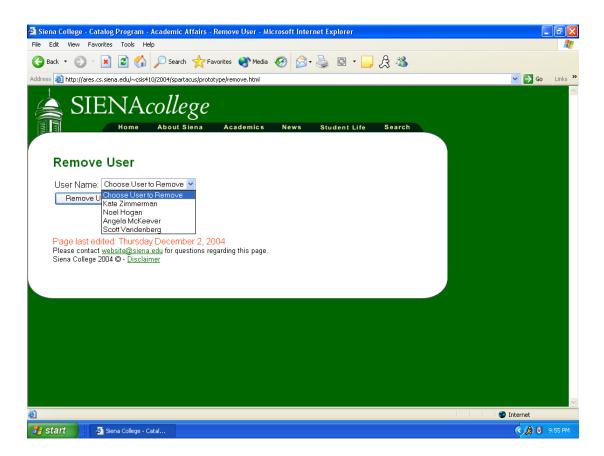
These tasks include creating a new user. While creating the new user, the administrator must set a username, default password, update the new user's e-mail, update his/her title and department, and set the permissions for the amount of information the user can access within the system.



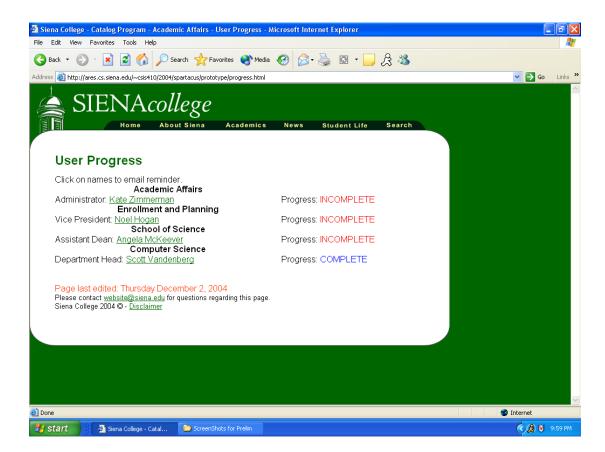
The Academic Affairs administrator also has the ability to edit the information or privileges of any user that is currently a user within the system.



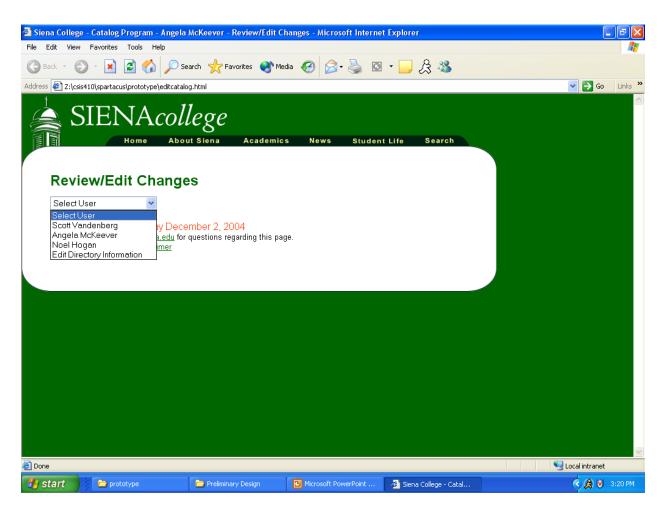
The *Edit User Info* page looks similar to the *Create New User* page since the same information can be edited.



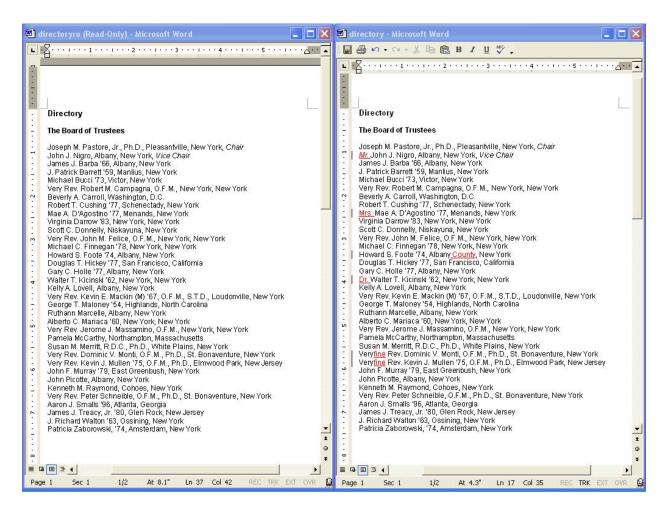
The Academic Affairs system administrator also has the ability to remove any user from the system, allowing the administrator to keep an up-to-date list of all college staff that should have access to the College Catalog database.



When the user clicks the *Check User Progress* link (on the main Academic Affairs page), they will be taken to this page, which displays information relating to the progress of the other users of the system.

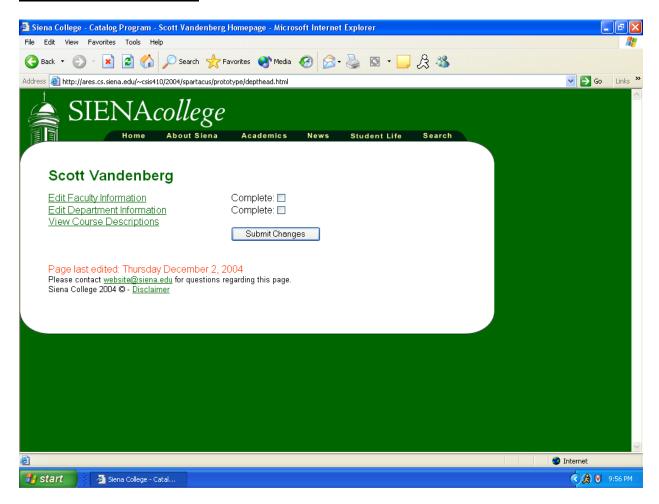


Since the Academic Affairs system administrator has control over the editing done throughout the entire catalog, the *Edit Catalog* link on the main Academic Affairs administrator web page allows him/her to access any part of the catalog for review or editing.

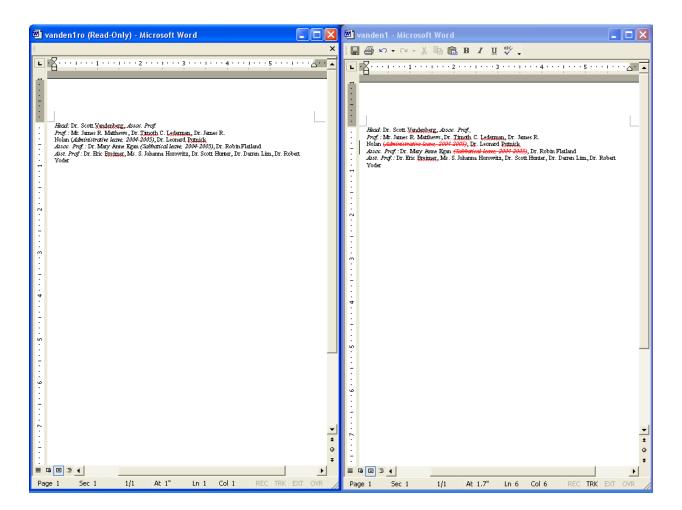


This is an example of a page that the Academic Affairs system administrator would have to review. The left hand side of the page is what the catalog looks like without the changes, while the right hand side of the page contains all revisions made by the system administrator.

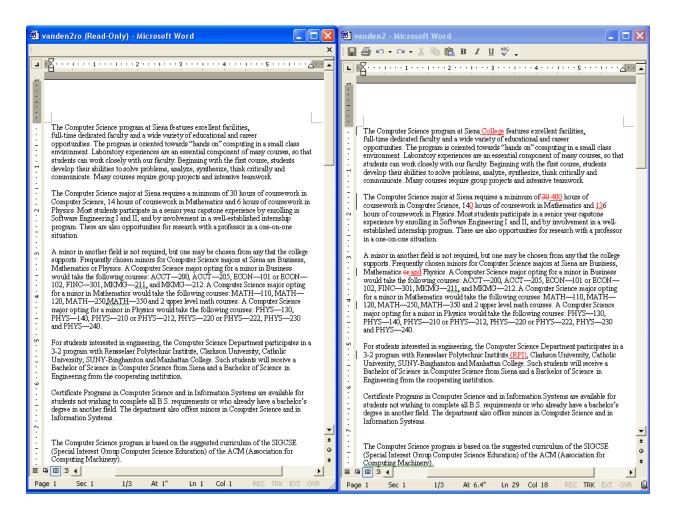
Department Head Screens



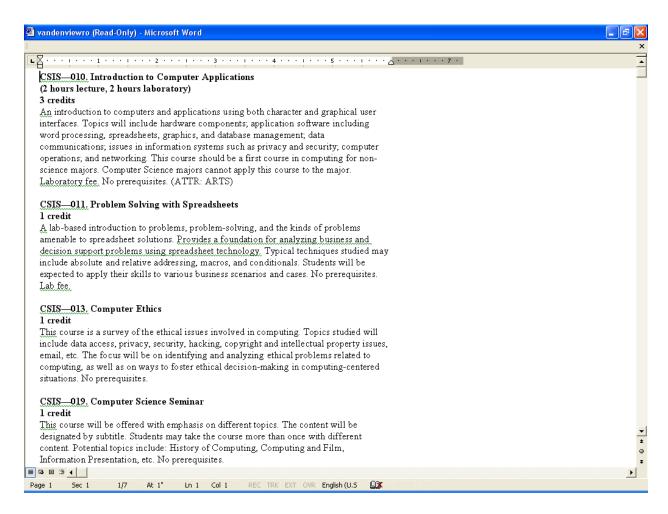
The Department Head home page contains links for all of the sections of the catalog that the given Department Head has access to change, along with corresponding check boxes (which signify if that particular section has been completed), and a link to view the course descriptions in their given department. Course descriptions can be read but not edited, since the information can only be changed in the Banner database system; our database system does not have the ability to change anything in Banner. When the Department Head is finished editing the section, s/he clicks the check box and click the *Submit Changes* button to submit his/her changes and update his/her catalog progress.



Using the example of Computer Science Department Head Scott Vandenberg, this would be an example of a section of the catalog that he would be able to edit. On this page, Dr. Vandenberg has the ability to edit faculty information. As with the Academic Affairs editing page, the left hand side is for review of what the catalog currently says without changes, while the right hand side contains all edited catalog information.

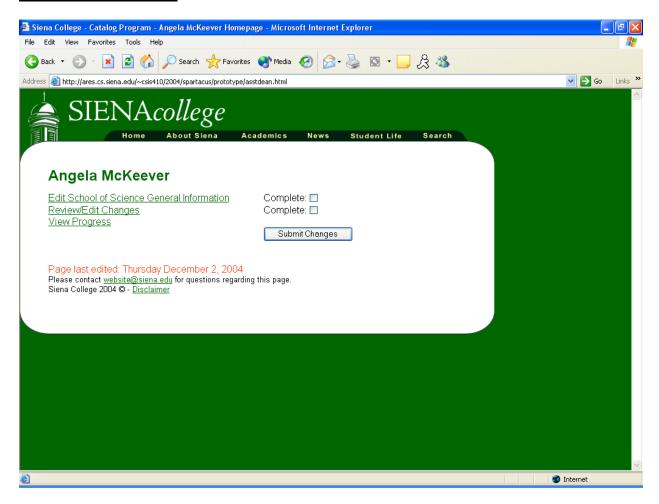


Another section of the catalog that Dr. Vandenberg would have the ability to edit is the Computer Science Department's information.

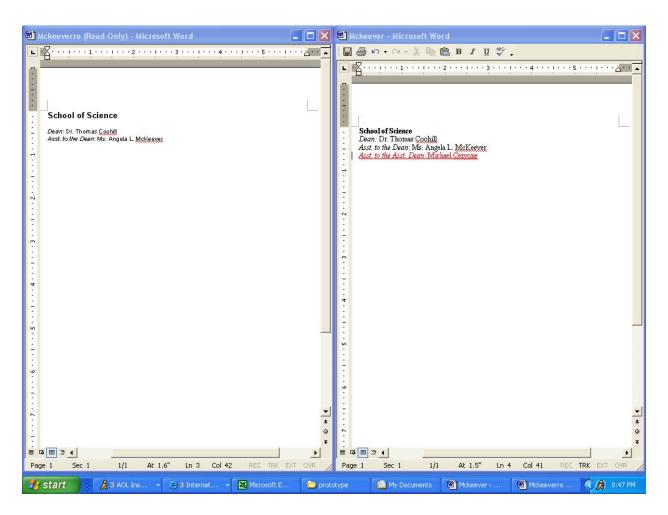


As stated previously, the Department Head has the ability to view course information, but does not have the ability to change any information contained within this section. This is an example of the Computer Science Department's course information.

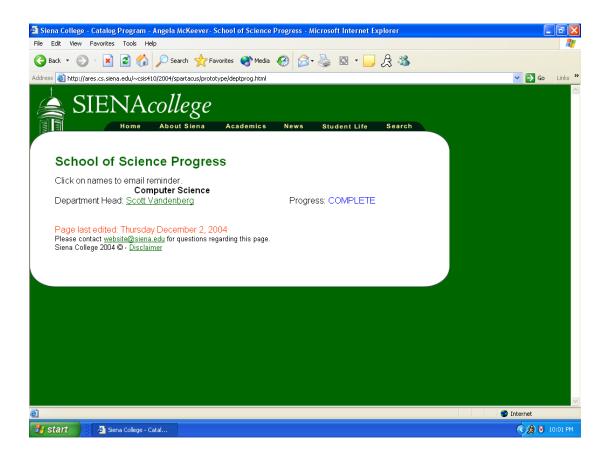
Assistant Dean Screens



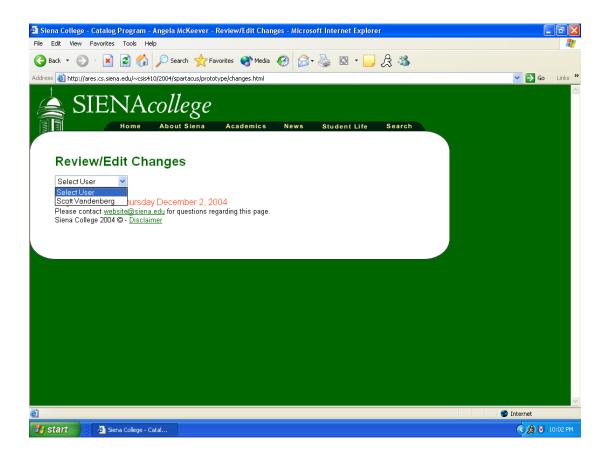
This is an example of the Assistant Dean's home page. It contains links to all of the different sections of the catalog that the Assistant Dean needs to change or monitor. The links include the following: *Edit Given School General Information*, *View Progress*, and *Review/Edit Changes*. When editing is completed the appropriate check box should be checked to indicate that the user is finished editing that section.



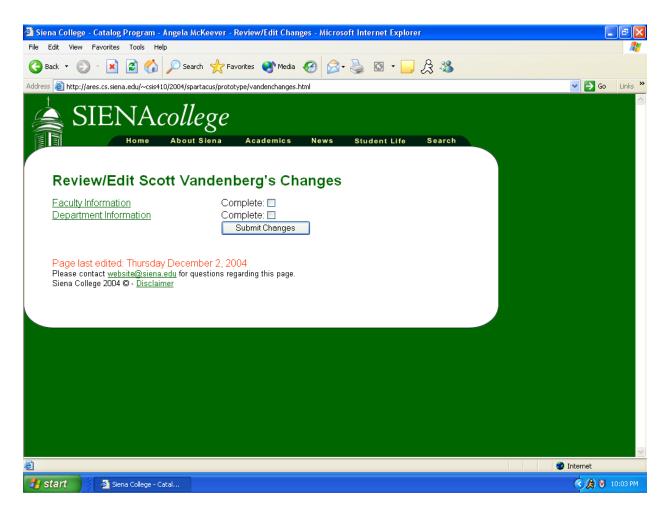
When clicked, the *Edit Given School General Information* link opens the general information section of the given school for editing.



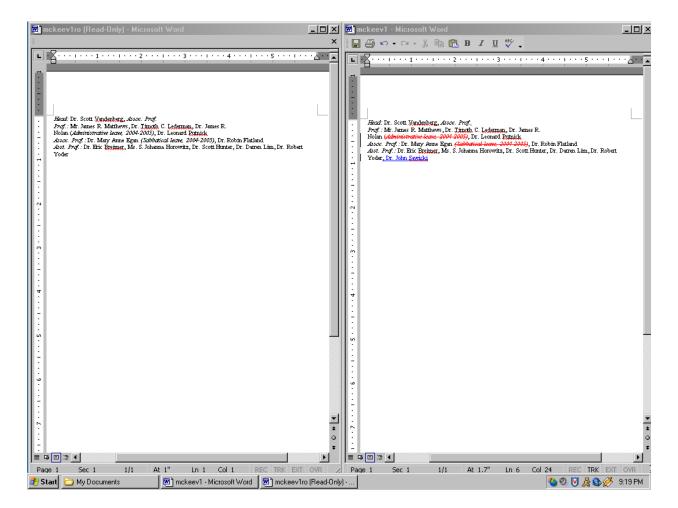
The *View Progress* link from the Assistant Dean home page allows the Assistant Dean to view the editing progress of the Department Heads in their school.



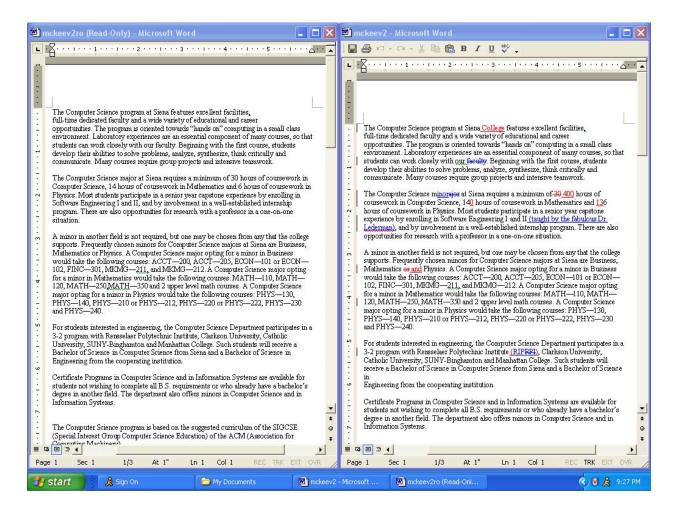
The *Review/Edit Changes* link on the Assistant Dean home page allows the Assistant Dean to review and/or edit changes for the Department Heads within their school.



The Assistant Dean can review or edit all of the same information that Dr. Vandenberg (or any other Department Head within the school of science) can review or edit. This is a page containing Dr. Vandenberg's sections of the catalog.

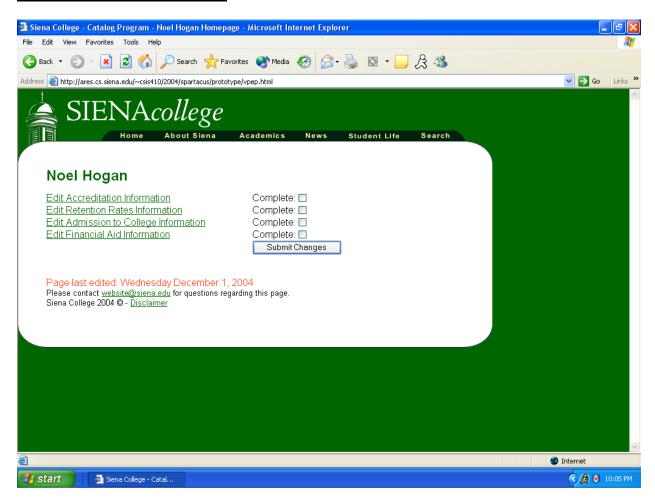


This editing page contains the same information as Dr. Vandenberg's page containing faculty information within the Computer Science Department. The only difference this time is that the copy of the text on the right hand side contains editing done by both Dr. Vandenberg, and editing done by Ms. McKeever. Dr. Vandenberg's editing was done in red; Angela McKeever's edits were highlighted in blue font.

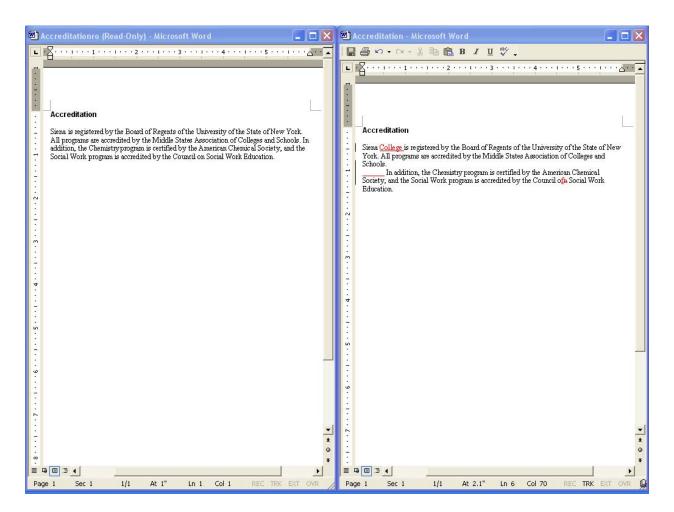


This editing page contains the same information as Dr. Vandenberg's page containing department information within the Computer Science Department. The only difference is that the copy of the text on the right hand side contains editing done by both Dr. Vandenberg, and editing done by Ms. McKeever. Dr. Vandenberg's editing was done in red; Angela McKeever's edits were highlighted in blue font.

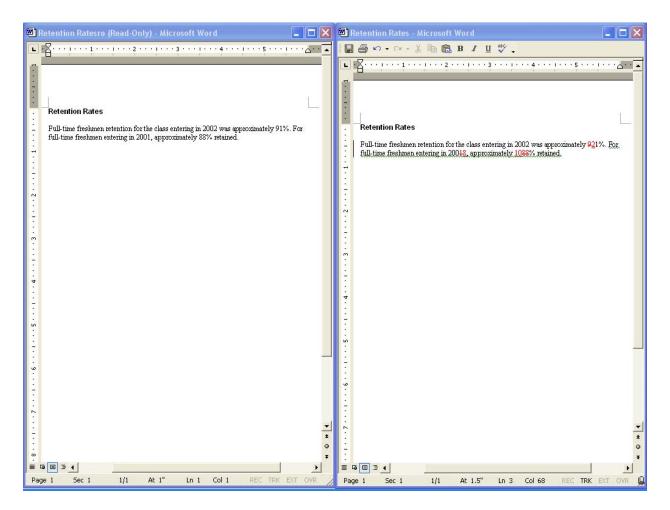
College Administrator Screens



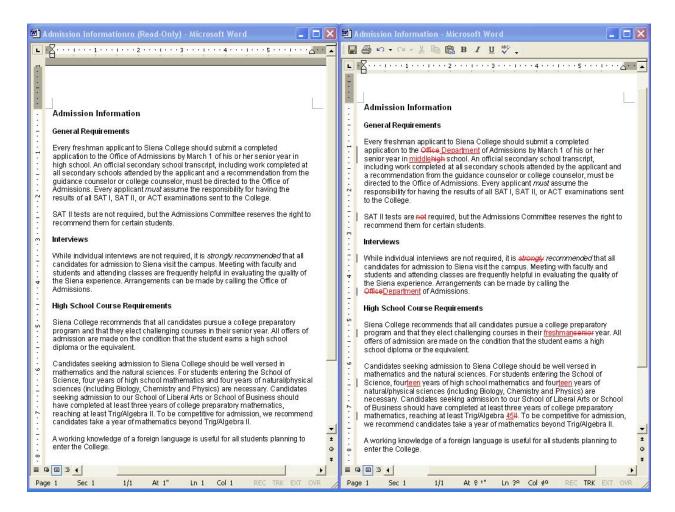
The home page for Vice Presidents (VP) of the college (as well as any college administrators who may have access to the system) contains links for all of the sections of the catalog that the given VP has access to, along with corresponding check boxes. When the VP clicks on a section of the catalog, the editing window will pop up and they will be able to make the desired changes. When they are finished editing the section they click the check box and click the *Submit Changes* button. When the *Submit Changes* button is clicked it updates the files and status of their catalog progress.



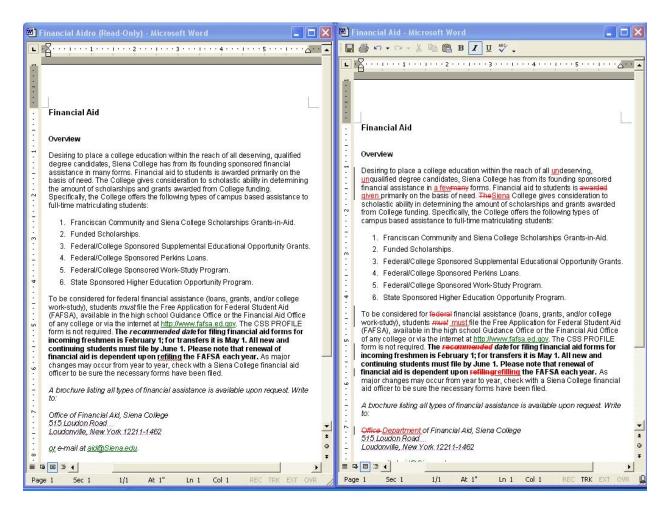
This is an example of a section of the catalog that Vice President of Enrollment and Planning Noel Hogan has the ability to access. As with all other editing windows, the left hand side contains the original text in the current catalog, while the right hand side has write permissions, allowing the user to edit the catalog's information.



This page also contains information that would require editing by Noel Hogan.



This page also contains information within the current catalog that would need to be edited by Noel Hogan.



This page also contains information that would need to be edited by Noel Hogan.

1.2: User Command Summary

Log In (User Level 0, 1, 2)

The log in screen is the first screen that users will encounter. The log in screen contains two fields. The first field is for the users' username, and the second field is for the users' password. After the user enters their username and password into the respective fields they need to click the login button to continue. Upon clicking the login button the system verifies the username and password to make sure they are valid before taking the user to their next respective screen. If upon clicking the login button the system tries to verify the user data but cannot find a valid match an error message appears on the screen directing the user to re-enter a valid username and password and try again.

Academic Affairs Home Page (User Level 0)

If the user data provided at the log in screen is for the Academic Affairs administrator the user is brought to the Academic Affairs home page. This page is the root page for the Academic Affairs administrator. The page contains links to the pages that allow the user to do various tasks, these links are: Create or Edit Users, Check User Progress, Edit Catalog, Generate Publisher's Copy, View Current Catalog. When the user clicks on the Create or Edit Users link they are taken to a web page that displays links to other pages that allow the user to perform various tasks on users. When the user clicks the Check User Progress link they will be taken to a page that displays information relating to the progress of the other users of the system. The Edit Catalog link when clicked takes the user to a page where they have the options pertaining to the editing of different sections of the catalog. The Generate Publisher's Copy link when clicked compiles all of the catalog data into a document that can be sent electronically to the publisher. The View Current Catalog link when clicked opens up a new window with the current version of the catalog displayed.

Create/Edit User (User Level 0)

This page consists of links to the pages that allows the user to perform various tasks regarding the creation, editing, and deletion of users. The links are as follows: Create New User, Edit Existing User, Remove User. The Create New User link when clicked takes the user to a screen in which they are able to enter in the required information for new user creation. The Edit Existing User link when clicked brings the user to a screen that lists all the current users of the system. The Remove User link takes the user to a screen in which they have the ability to remove users from the system.

Create New User (User Level 0)

This page contains various fields for the following: User Name, User Password, User Email, User Title, User Office/Dept. There are also links to set permissions on various sections of the catalogs. To create a user, the administrative user enters information into the respective fields. The administrative user then clicks on the link for whatever category of the catalog permissions they wish to assign the new user. If the administrative user wishes to they can clear the form and start over if they wish to do so. After all new user information and permissions are set the administrative user can click the Create User button. Upon clicking the Create User button the new user will be created in the system with the entered information and password. If some information is missing a message saying so will appear.

Permissions (User Level 0)

The permission screens are broken down into sections depending on what part of the catalog they are under. In each permission screen the areas are broken down even further into specific subsections. To set the permissions the user selects by clicking in the corresponding check boxes. When all desired boxes are clicked then the Grant Permissions button is pressed and the users' permissions are updated. If the user wants they can also clear all granted permissions by clicking the Clear Form button to unclick all checked permission boxes.

Edit User (User Level 0)

The edit user screen displays a listing of all users, along with titles and other information. From this page the administrative user can click on the desired person's name that they wish to modify. When they click on the page they are brought to a page called Edit User Info

Edit User Info (User Level 0)

The Edit User Info page is almost identical to the Create New User page. However, it is populated with the selected users' information in all of the corresponding fields. Also, the selected users' permissions are summarized so that the administrative user can easily tell what they have access to. From this screen the desired user can have any of their information and/or permissions modified.

Remove User (User Level 0)

This screen allows for the administrative user to delete any user. To delete a user the administrative user selects the desired user from the list of all users. After the desired user is selected they the Remove User button is pushed and the user is deleted from the program.

User Progress (User Level 0)

The User Progress screen displays the same information as the edit user screen. In addition this screen contains a summary of which users have completed their portion of the catalog. The administrative user can then click on a users name and a message will automatically be generated and sent to the user corresponding user reminding them to complete their portion of the catalog.

Review/Edit Changes (User Level 0)

The Review/Edit Changes screen allows the administrative user to select a user from a list of all users. The administrative user is then redirected to another screen pertaining to the actual editing of sections.

Review/Edit *User Name* Changes (User Level 0)

The Review/Edit *User Name* Changes allows the administrative user to click on the section of the catalog they wish to review for the previously selected user. Upon clicking on the section of the catalog the sections pop up for editing. When the administrative user finished making changes they click in the complete box and click submit changes to update the file.

Assistant Dean Home Page (User Level 1)

The Assistant Dean Home Page is the page that an Assistant Dean is taken to when they log in at the Log In screen. It contains links to all of the different that the Assistant Dean needs to change or monitor. The links include the following: Edit *Given School* General Information, Review Progress, and Review/Edit Changes. The Edit *Given School* General Information link when clicked opens the general information section of the given school for editing. When editing is completed the appropriate check box should be checked to indicate that the user is finished editing that section. The View Progress link takes the user to a system of pages and functionality much like the View Progress link for the User Level 0. However, the Assistant Dean can only view the progress of the Department Heads in their school. The Review/Edit Changes link is much like the series of Review/Edit Changes pages that the User Level 0 has. However, the Assistant Dean can only review and/or edit changes for the Department Heads in their school.

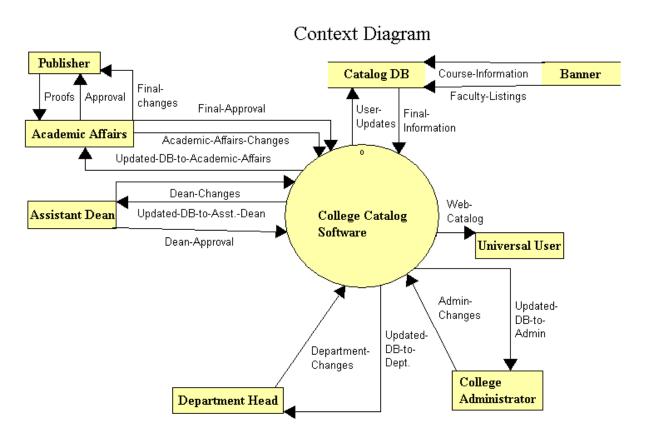
Vice President Home Page (User Level 1)

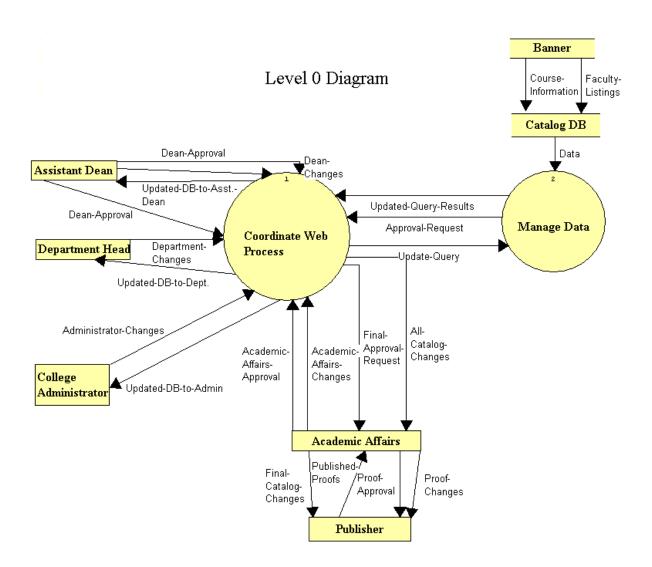
The Vice President Home Page contains links for all of the sections of the catalog that the given VP has access to along with corresponding check boxes. When the VP clicks on a section of the catalog the editing window will pop up and they will be able to make the desired changes. When they are finished editing the section they click the check box and click the Submit Changes button. When the Submit Changes button is clicked it updates the files and status of their catalog progress.

Department Head Home Page (User Level 2)

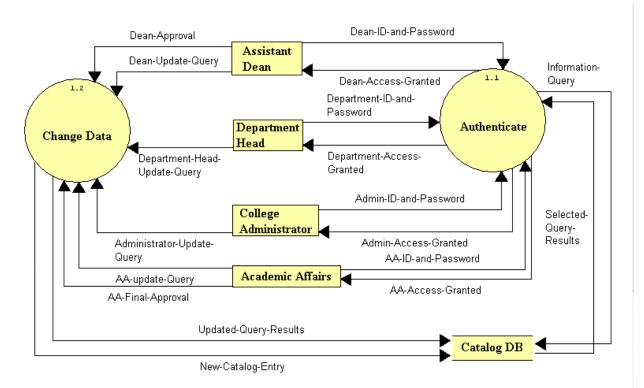
The Department Head Home Page contains links for all of the sections of the catalog that the given Department Head has access to change, along with corresponding check boxes, and a link to view the course descriptions in their given department. The Department Head clicks on his/her given link for the section of catalog they wish to edit and an editing window pops up. When they are finished editing the section they click the check box and click the Submit Changes button to submit their changes and update their catalog progress. When the View Course Description is clicked the Department Head will be able to view the course descriptions that are in their department in a read only manner.

1.3: Detailed Data Flow Diagrams



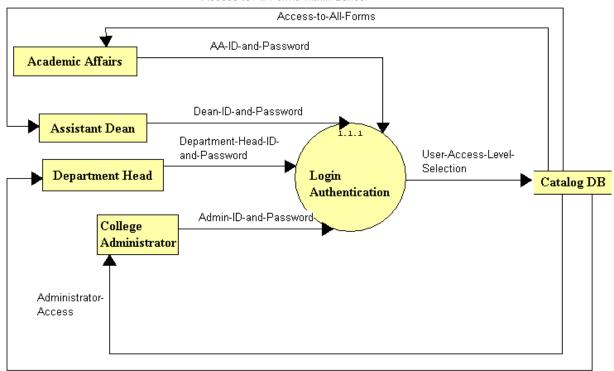


Level 1 Diagram - Coordinate Web Process

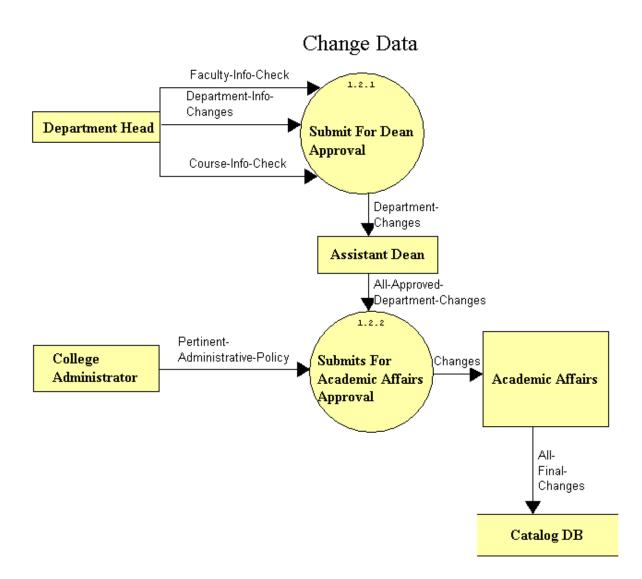


Authenticate

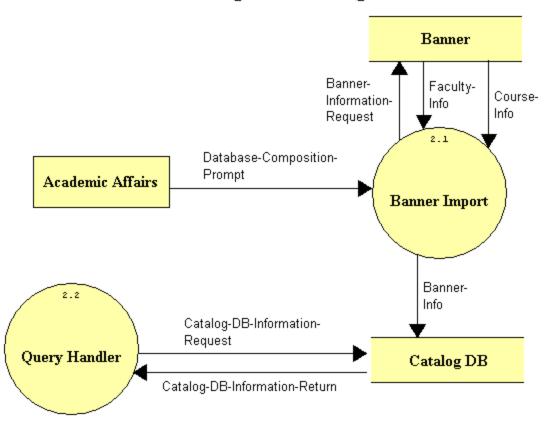
Access-to-All-Forms-within-School

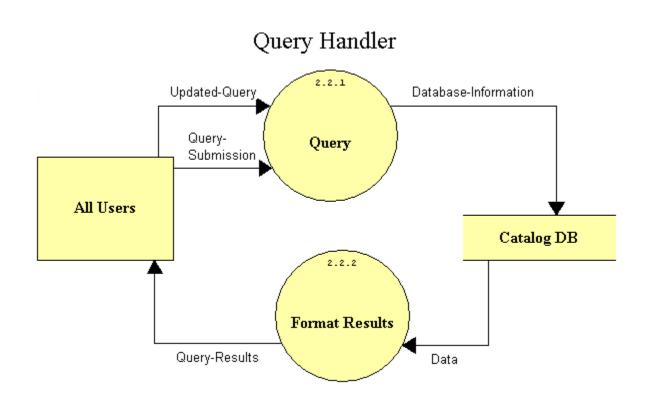


Access-to-Own-Department-Forms

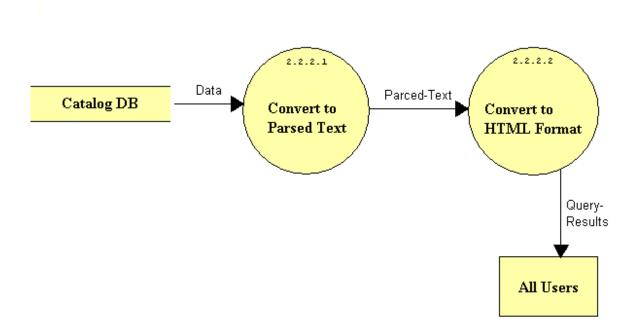


Level 1 Diagram - Manage Data





Format Results



1.4: Logical Data Dictionary

The following information describes the data elements within the data flow diagrams (located in section 1.3 Detailed Data Flow Diagrams). The data elements are separated by the location (i.e., which data flow diagram) they are located within.

Location - Context Diagram:

Academic Affairs Source/Sink

Description:

In actuality, signifies the head user/system administrator (i.e. Ms. Zimmerman), who has complete control *Input Flows*:

Proofs

Updated-DB-to-Academic-Affairs

Output Flows: Approval

Final-changes

Final-Approval

Academic-Affairs-Changes

Academic-Affairs-Changes Data Flow

Description:

Academic Affairs can make any changes to the catalog.

Source: Academic Affairs (Source/Sink)

Dest: College Catalog Software (Process)

Admin-Changes Data Flow

Description:

Administrator changes are made to any necessary sections of the catalog that are not included in the academic portions

Source: College Administrator (Source/Sink)

Dest: College Catalog Software (Process)

Date Last Altered: 12/2/2004 Date Created: 10/30/2004

Approval Data Flow

Description:

Final approval of the College Catalog to be printed.

Source: Academic Affairs (Source/Sink)

Dest: Publisher (Source/Sink)

Assistant Dean Source/Sink

Description:

Anyone at the Dean level of the college; has the ability to access the database, make changes, and monitor *Input Flows*:

Updated-DB-to-Asst.-Dean

Output Flows:

Dean-Approval

Dean-Changes

Banner File

Description:

Data store; Database used by Siena College that contains course information and faculty listings; software

Output Flows: Course-Information Faculty-Listings

Catalog DB File

Description:

Database containing all the College catalog information (different from Banner catalog database)

Input Flows:

Course-Information

Faculty-Listings

User-Updates

Output Flows:

Final-Information

College Administrator Source/Sink

Description:

Makes changes to administrative policies in areas not included in the schools.

Input Flows:

Updated-DB-to-Admin

Output Flows:

Admin-Changes

College Catalog Software Process

Description:

Allows for editing of the college catalog

Input Flows:

Final-Approval

Dean-Approval

Dean-Changes

Academic-Affairs-Changes

Department-Changes

Admin-Changes

Final-Information

Output Flows:

Updated-DB-to-Academic-Affairs

Updated-DB-to-Asst.-Dean

Updated-DB-to-Dept.

Updated-DB-to-Admin

Web-Catalog

User-Updates

1

Course-Information Data Flow

Description:

Contains course information.

Source: Banner (File)

Dest: Catalog DB (File)

Dean-Approval Data Flow

Description:

The Dean must approve changes made to the departments within its school.

Source: Assistant Dean (Source/Sink)
Dest: College Catalog Software (Process)

Dean-Changes Data Flow

Description:

The Dean can make any changes to any of the departments within its particular school.

Source: Assistant Dean (Source/Sink)

Dest: College Catalog Software (Process)

Department Head Source/Sink

Description:

Makes changes to the particular scholastic department

Input Flows:

Updated-DB-to-Dept.

Output Flows:

Department-Changes

Department-Changes Data Flow

Description:

Department heads make changes to only their specific department.

Source: Department Head (Source/Sink)

Dest: College Catalog Software (Process)

Faculty-Listings Data Flow

Description:

Faculty information

Source: Banner (File)

Dest: Catalog DB (File)

Final-Approval Data Flow

Description:

Academic Affairs has the final approval on all changes to be made to the catalog.

Source: Academic Affairs (Source/Sink)

Dest: College Catalog Software (Process)

Final-changes Data Flow

Description:

The Academic Affairs Office sends any final changes it needs to make to the catalog.

Source: Academic Affairs (Source/Sink)

Dest: Publisher (Source/Sink)

Final-Information Data Flow

Description:

This information is any information sent from the database back into the College Catalog Software.

Source: Catalog DB (File)

Dest: College Catalog Software (Process)

Proofs Data Flow

Description:

Proofs are the drafts of the catalog that are sent back for approval.

Source: Publisher (Source/Sink)

Dest: Academic Affairs (Source/Sink)

Publisher Source/Sink

Description:

Outside publishing editor; puts together the hard copy of the final college catalog

Input Flows: Approval Final-changes Output Flows: Proofs

Universal User Source/Sink

Description:

Anyone with access to the catalog; access limited to read-only privileges (can read the catalog)

Input Flows: Web-Catalog

Updated-DB-to-Academic-Affairs Data Flow

Description:

Academic Affairs is notified of any changes made to the College Catalog database.

Source: College Catalog Software (Process)

Dest: Academic Affairs (Source/Sink)

Updated-DB-to-Admin Data Flow

Description:

The College Administrators can see any changes made by anyone else to their sections.

Source: College Catalog Software (Process)

Dest: College Administrator (Source/Sink)

Updated-DB-to-Asst.-Dean Data Flow

Description:

The Dean will be notified whenever changes are made to any departments within the particular school.

Source: College Catalog Software (Process)

Dest: Assistant Dean (Source/Sink)

Updated-DB-to-Dept. Data Flow

Description:

Department Heads can see any changes made by anyone else to their sections.

Source: College Catalog Software (Process)
Dest: Department Head (Source/Sink)

.....

User-Updates Data Flow

Description:

Any updates made to the catalog database. *Source:* College Catalog Software (Process)

Dest: Catalog DB (File)

Web-Catalog Data Flow

Description:

The Web Catalog is available to all users. *Source:* College Catalog Software (Process)

Dest: Universal User (Source/Sink)

Location - Level 0 Diagram:

Academic Affairs Source/Sink

Description:

In actuality, signifies the head user/system administrator (i.e. Ms. Zimmerman), who has complete control

Input Flows:

Final-Approval-Request

All-Catalog-Changes

Published-Proofs

Output Flows:

Academic-Affairs-Approval

Academic-Affairs-Changes

Proof-Approval

Final-Catalog-Changes

Proof-Changes

.....

Academic-Affairs-Approval Data Flow

Description:

Academic Affairs makes all final approvals. Source: Academic Affairs (Source/Sink) Dest: Coordinate Web Process (Process)

Academic-Affairs-Changes Data Flow

Description:

Academic Affairs can make any changes to the catalog.

Source: Academic Affairs (Source/Sink)
Dest: Coordinate Web Process (Process)

Administrator-Changes Data Flow

Source: College Administrator (Source/Sink)
Dest: Coordinate Web Process (Process)

All-Catalog-Changes Data Flow

Description:

Academic Affairs is notified of any Catalog changes.

Source: Coordinate Web Process (Process)
Dest: Academic Affairs (Source/Sink)

Approval-Request Data Flow

Description:

Requests that changes be approved. *Source:* Manage Data (Process)

Dest: Coordinate Web Process (Process)

Assistant Dean Source/Sink

Description:

Anyone at the Dean level of the college; has the ability to access the database, make changes, and monitor *Input Flows*:

Updated-DB-to-Asst.-Dean

Output Flows:

Dean-Changes

Dean-Approval

Dean-Approval

Banner File

Description:

Data store; Database used by Siena College that contains course information and faculty listings; software *Output Flows:*

Course-Information

Faculty-Listings

Catalog DB File

Description:

Database containing all the College catalog information (different from Banner catalog database)

Input Flows:

Course-Information

Faculty-Listings

Output Flows:

Data

College Administrator Source/Sink

Description:

Makes changes to administrative policies in areas not included in the schools.

Input Flows:

Updated-DB-to-Admin

Output Flows:

Administrator-Changes

Coordinate Web Process Process

Description:

Coordinates changes made to the database via the internet; allows for authorized users to login to a user-fr

Input Flows:

Dean-Changes

Dean-Approval

Department-Changes

Administrator-Changes

Academic-Affairs-Approval

Academic-Affairs-Changes

Updated-Query-Results

Approval-Request

Dean-Approval

Output Flows:

Final-Approval-Request

All-Catalog-Changes

Update-Query

Updated-DB-to-Asst.-Dean

Updated-DB-to-Dept.

Updated-DB-to-Admin

Course-Information Data Flow

Description:

Contains course information.

Source: Banner (File)
Dest: Catalog DB (File)

Data Data Flow

Description:

Contains any data coming from the College Catalog DB.

Source: Catalog DB (File)
Dest: Manage Data (Process)

Dean-Approval Data Flow

Description:

The Dean must approve changes made to the departments within its school.

Source: Assistant Dean (Source/Sink)
Dest: Coordinate Web Process (Process)

Dean-Changes Data Flow

Description:

The Dean can make any changes to any of the departments within its particular school.

Source: Assistant Dean (Source/Sink)

Dest: Coordinate Web Process (Process)

Department Head Source/Sink

Description:

Makes changes to the particular scholastic department

Input Flows:

Updated-DB-to-Dept.

Output Flows:

Department-Changes

Department-Changes Data Flow

Description:

Department heads make changes to only their specific department.

Source: Department Head (Source/Sink)

Dest: Coordinate Web Process (Process)

Faculty-Listings Data Flow

Description:

Faculty information Source: Banner (File) Dest: Catalog DB (File)

Final-Approval-Request Data Flow

Description:

All users must submit their changes for final approval.

Source: Coordinate Web Process (Process)
Dest: Academic Affairs (Source/Sink)

Final-Catalog-Changes Data Flow

Description:

All final Catalog changes are sent to the publisher.

Source: Academic Affairs (Source/Sink)

Dest: Publisher (Source/Sink)

Manage Data Process

Description:

Process to manage the data submitted through the web interface based on authorization and approval

Input Flows: Update-Query

Data

Output Flows:

Updated-Query-Results

Approval-Request

Proof-Approval Data Flow

Description:

The proofs are approved and are ready to be printed.

Source: Academic Affairs (Source/Sink)

Dest: Publisher (Source/Sink)

Proof-Changes Data Flow

Description:

Academic Affairs sends any changes to the proofs.

Source: Academic Affairs (Source/Sink)

Dest: Publisher (Source/Sink)

Published-Proofs Data Flow

Description:

The published proofs are sent back for approval.

Source: Publisher (Source/Sink)

Dest: Academic Affairs (Source/Sink)

Publisher Source/Sink

Description:

Outside publishing editor; puts together the hard copy of the final college catalog

Input Flows: Proof-Approval

Final-Catalog-Changes

Proof-Changes
Output Flows:
Published-Proofs

Updated-DB-to-Admin Data Flow

Description:

The College Administrators can see any changes made by anyone else to their sections.

Source: Coordinate Web Process (Process)
Dest: College Administrator (Source/Sink)

Updated-DB-to-Asst.-Dean Data Flow

Description:

The Dean will be notified whenever changes are made to any departments within the particular school.

Source: Coordinate Web Process (Process)

Dest: Assistant Dean (Source/Sink)

Updated-DB-to-Dept. Data Flow

Description:

Department Heads can see any changes made by anyone else to their sections.

Source: Coordinate Web Process (Process)

Dest: Department Head (Source/Sink)

Updated-Query-Results Data Flow

Description:

Submits any update queries that are approved to the catalog database.

Source: Manage Data (Process)

Dest: Coordinate Web Process (Process)

Update-Query Data Flow

Description:

Submission for changes to be made to the Catalog database.

Source: Coordinate Web Process (Process)

Dest: Manage Data (Process)

Location – Level 1 Diagram – Coordinate Web Processes:

AA-Access-Granted Data Flow

Description:

Access respective to the user rights of the Academic Affairs head user are granted, pending authetication o *Source:* Authenticate (Process)

Dest: Academic Affairs (Source/Sink)

AA-Final-Approval Data Flow

Description:

The Academic Affairs head user (i.e., Ms. Zimmerman) must approve all final changes to the catalog data *Source:* Academic Affairs (Source/Sink)

Dest: Change Data (Process)

AA-ID-and-Password Data Flow

Description:

The head user from the Academic Affairs office (i.e., Ms. Zimmerman) submits a user ID and password to *Source:* Academic Affairs (Source/Sink)

Dest: Authenticate (Process)

AA-update-Query Data Flow

Description:

The Academic Affairs head user (i.e., Ms. Zimmerman) has the ability to submit information to be update *Source*: Academic Affairs (Source/Sink)

Dest: Change Data (Process)

Academic Affairs Source/Sink

Description:

In actuality, signifies the head user/system administrator (i.e. Ms. Zimmerman), who has complete control *Input Flows:*

AA-Access-Granted

Output Flows:

AA-ID-and-Password

AA-update-Query

AA-Final-Approval

Admin-Access-Granted Data Flow

Description:

Access respective to the user rights of a College Administrator are granted, pending authetication of the u *Source:* Authenticate (Process)

Dest: College Administrator (Source/Sink)

Admin-ID-and-Password Data Flow

Description:

A College Administrator submits a user ID and password to the system for authetication

Source: College Administrator (Source/Sink)

Dest: Authenticate (Process)

Administrator-Update-Query Data Flow

Description:

A College Administrator has the ability to submit information to be updated within the database.

Source: College Administrator (Source/Sink)

Dest: Change Data (Process)

Assistant Dean Source/Sink

Description:

Anyone at the Dean level of the college; has the ability to access the database, make changes, and monitor *Input Flows:*

Dean-Access-Granted

Output Flows:

Dean-ID-and-Password

Dean-Update-Query

Dean-Approval

Authenticate Process

Description:

Verify username and password at login as valid, authorized user

Input Flows:

Dean-ID-and-Password

Department-ID-and-Password

Admin-ID-and-Password

AA-ID-and-Password

Selected-Query-Results

Output Flows:

Dean-Access-Granted

Department-Access-Granted

Admin-Access-Granted

AA-Access-Granted

Information-Query

Catalog DB File

Description:

Database containing all the College catalog information (different from Banner catalog database)

Input Flows:

Information-Query

Updated-Query-Results

New-Catalog-Entry

Output Flows:

Selected-Query-Results

Change Data Process

Description:

The process to submit changes to the current data in the catalog database

Input Flows:

AA-update-Query AA-Final-Approval

Administrator-Update-Query

Department-Head-Update-Query

Dean-Update-Query

Dean-Approval

Output Flows:

Updated-Query-Results

New-Catalog-Entry

College Administrator Source/Sink

Description:

Makes changes to administrative policies in areas not included in the schools.

Input Flows:

Admin-Access-Granted

Output Flows:

Admin-ID-and-Password

Administrator-Update-Query

Dean-Access-Granted Data Flow

Description:

Access respective to the user rights of the Assistant Dean are granted, pending authetication of the user ID

Source: Authenticate (Process)

Dest: Assistant Dean (Source/Sink)

Dean-Approval Data Flow

Description:

The Dean must approve changes made to the departments within its school.

Source: Assistant Dean (Source/Sink)

Dest: Change Data (Process)

Dean-ID-and-Password Data Flow

Description:

The Assistant Dean submits a user ID and password to the system for authetication

Source: Assistant Dean (Source/Sink)

Dest: Authenticate (Process)

.....

Dean-Update-Query Data Flow

Description:

The Assistant Dean has the ability to submit information to be updated within the database.

Source: Assistant Dean (Source/Sink)

Dest: Change Data (Process)

Department Head Source/Sink

Description:

Makes changes to the particular scholastic department

Input Flows:

Department-Access-Granted

Output Flows:

Department-ID-and-Password

Department-Head-Update-Query

Department-Access-Granted Data Flow

Description:

Access respective to the user rights of the Department Head are granted, pending authetication of the user

Source: Authenticate (Process)

Dest: Department Head (Source/Sink)

Department-Head-Update-Query Data Flow

Description:

The Department Head has the ability to submit information to be updated within the database.

Source: Department Head (Source/Sink)

Dest: Change Data (Process)

Department-ID-and-Password Data Flow

Description:

The Department Head submits a user ID and password to the system for authetication

Source: Department Head (Source/Sink)

Dest: Authenticate (Process)

Information-Query Data Flow

Description:

Checks with catalog database to make sure user IDs and passwords are saved in the system.

Source: Authenticate (Process)

Dest: Catalog DB (File)

New-Catalog-Entry Data Flow

Description:

Enters any new catalog entries that were added by any authorized users with the ability to update into the *Source:* Change Data (Process)

Dest: Catalog DB (File)

Selected-Query-Results Data Flow

Description:

Privileges of a particular user (based on the user ID and password submitted in the information query) are

Source: Catalog DB (File)
Dest: Authenticate (Process)

Updated-Query-Results Data Flow

Description:

Submits any update queries that are approved to the catalog database.

Source: Change Data (Process)

Dest: Catalog DB (File)

Location – Authenticate:

AA-ID-and-Password Data Flow

Description:

The head user from the Academic Affairs office (i.e., Ms. Zimmerman) submits a user ID and password to

Source: Academic Affairs (Source/Sink)
Dest: Login Authentication (Process)

Academic Affairs Source/Sink

Description:

In actuality, signifies the head user/system administrator (i.e. Ms. Zimmerman), who has complete control

Input Flows:

Access-to-All-Forms

Output Flows:

AA-ID-and-Password

Access-to-All-Forms Data Flow

Description:

Access to all catalog content is granted

Source: Catalog DB (File)

Dest: Academic Affairs (Source/Sink)

Access-to-All-Forms-within-School Data Flow

Description:

Access to all content for a particular school is granted

Source: Catalog DB (File)

Dest: Assistant Dean (Source/Sink)

Access-to-Own-Department-Forms Data Flow

Description:

Access to individual departments given to Department Heads

Source: Catalog DB (File)

Dest: Department Head (Source/Sink)

Admin-ID-and-Password Data Flow

Description:

A College Administrator submits a user ID and password to the system for authetication

Source: College Administrator (Source/Sink)

Dest: Login Authentication (Process)

Administrator-Access Data Flow

Description:

College administrator access is granted to their particular office(s).

Source: Catalog DB (File)

Dest: College Administrator (Source/Sink)

Assistant Dean Source/Sink

Description:

Anyone at the Dean level of the college; has the ability to access the database, make changes, and monitor *Input Flows*:

Access-to-All-Forms-within-School

Output Flows:

Dean-ID-and-Password

Catalog DB File

Description:

Database containing all the College catalog information (different from Banner catalog database)

Input Flows:

User-Access-Level-Selection

Output Flows:

Access-to-All-Forms

Access-to-All-Forms-within-School

Access-to-Own-Department-Forms

Administrator-Access

College Administrator Source/Sink

Description:

Makes changes to administrative policies in areas not included in the schools.

Input Flows:

Administrator-Access

Output Flows:

Admin-ID-and-Password

Dean-ID-and-Password Data Flow

Description:

The Assistant Dean submits a user ID and password to the system for authetication

Source: Assistant Dean (Source/Sink)
Dest: Login Authentication (Process)

Department Head Source/Sink

Description:

Makes changes to the particular scholastic department

Input Flows:

Access-to-Own-Department-Forms

Output Flows:

Department-Head-ID-and-Password

Department-Head-ID-and-Password Data Flow

Description:

Department Head's ID and Password are sent to be authenticated

Source: Department Head (Source/Sink)
Dest: Login Authentication (Process)

Login Authentication Process

Description:

Takes user ID and password and verifies user authority to access the catalog database

Input Flows:

AA-ID-and-Password Dean-ID-and-Password

Department-Head-ID-and-Password

Admin-ID-and-Password

Output Flows:

User-Access-Level-Selection

User-Access-Level-Selection Data Flow

Description:

Access level requested from database *Source*: Login Authentication (Process)

Dest: Catalog DB (File)

Location - Change Data:

Academic Affairs Source/Sink

Description:

In actuality, signifies the head user/system administrator (i.e. Ms. Zimmerman), who has complete control *Input Flows*:

Changes
Output Flows:

All-Final-Changes

All-Approved-Department-Changes Data Flow

Description:

Assistant Dean submits changes for their particular school.

Source: Assistant Dean (Source/Sink)

Dest: Submits For Academic Affairs Approval (Process)

All-Final-Changes Data Flow

Description:

All changes to any part of the catalog are submitted to the catalog database to update the records.

Source: Academic Affairs (Source/Sink)

Dest: Catalog DB (File)

Assistant Dean Source/Sink

Description:

Anyone at the Dean level of the college; has the ability to access the database, make changes, and monitor *Input Flows*:

Department-Changes

Output Flows:

All-Approved-Department-Changes

Catalog DB File

Description:

Database containing all the College catalog information (different from Banner catalog database)

Input Flows:

All-Final-Changes

Changes Data Flow

Description:

All changes from all departments, schools, and offices of the college are submitted for Academic Affairs a *Source:* Submits For Academic Affairs Approval (Process)

Dest: Academic Affairs (Source/Sink)

College Administrator Source/Sink

Description:

Makes changes to administrative policies in areas not included in the schools.

Output Flows:

Pertinent-Administrative-Policy

Course-Info-Check Data Flow

Description:

Verifies that the course information in Banner is correct.

Source: Department Head (Source/Sink)

Dest: Submit For Dean Approval (Process)

Department Head Source/Sink

Description:

Makes changes to the particular scholastic department

Output Flows: Faculty-Info-Check

Department-Info-Changes

Course-Info-Check

Department-Changes Data Flow

Description:

Department heads make changes to only their specific department.

Source: Submit For Dean Approval (Process)

Dest: Assistant Dean (Source/Sink)

Department-Info-Changes Data Flow

Description:

Submit any changes to the department information.

Source: Department Head (Source/Sink)
Dest: Submit For Dean Approval (Process)

Faculty-Info-Check Data Flow

Description:

Verifies that the faculty information in Banner is correct.

Source: Department Head (Source/Sink)

Dest: Submit For Dean Approval (Process)

Pertinent-Administrative-Policy Data Flow

Description:

Submit any college policy changes.

Source: College Administrator (Source/Sink)

Dest: Submits For Academic Affairs Approval (Process)

Submit For Dean Approval Process

Description:

Process to send approval request to user at Dean level

Input Flows:

Faculty-Info-Check

Department-Info-Changes

Course-Info-Check

Output Flows:

Department-Changes

Submits For Academic Affairs Approval Process

Description:

Submit request for final approval on all changes from Academic Affairs

Input Flows:

All-Approved-Department-Changes

Pertinent-Administrative-Policy

Output Flows:

Changes

Location – Level 1 Diagram – Manage Data:

Academic Affairs Source/Sink

Description:

In actuality, signifies the head user/system administrator (i.e. Ms. Zimmerman), who has complete control *Output Flows*:

Database-Composition-Prompt

Banner File

Description:

Data store; Database used by Siena College that contains course information and faculty listings; software

Input Flows:

Banner-Information-Request

Output Flows: Faculty-Info Course-Info

Banner Import Process

Description:

Process to format Banner information from Banner tables and append them to the Catalog DB tables

Input Flows:

Database-Composition-Prompt

Faculty-Info Course-Info Output Flows:

Banner-Information-Request

Banner-Info

.....

Banner-Info Data Flow

Description:

Updated Banner information submitted to catalog database for storage.

Source: Banner Import (Process)

Dest: Catalog DB (File)

Banner-Information-Request Data Flow

Description:

Banner requested to update faculty and course information, to prepare for submission to the catalog databa

Source: Banner Import (Process)

Dest: Banner (File)

Catalog DB File

Description:

Database containing all the College catalog information (different from Banner catalog database)

Input Flows:
Banner-Info

Catalog-DB-Information-Request

Output Flows:

Catalog-DB-Information-Return

Catalog-DB-Information-Request Data Flow

Description:

User requests information from the database.

Source: Query Handler (Process)

Dest: Catalog DB (File)

Catalog-DB-Information-Return Data Flow

Description:

Catalog database returns the information requested in the catalog-DB-information-query.

Source: Catalog DB (File)
Dest: Query Handler (Process)

Course-Info Data Flow

Description:

Contains information about courses.

Source: Banner (File)

Dest: Banner Import (Process)

Database-Composition-Prompt Data Flow

Description:

Query to prompt for updated faculty and course information from Banner

Source: Academic Affairs (Source/Sink)

Dest: Banner Import (Process)

Faculty-Info Data Flow

Description:

Contains faculty information to be added to the database from Banner.

Source: Banner (File)

Dest: Banner Import (Process)

Query Handler Process

Description:

Allows user to request information from the Catalog DB and sends information back to said user

Input Flows:

Catalog-DB-Information-Return

Output Flows:

Catalog-DB-Information-Request

Location – Query Handler:

All Users Source/Sink

Description:

Any user with the ability to make changes to the catalog

Input Flows: Query-Results Output Flows: Query-Submission Updated-Query

Catalog DB File Description: Input Flows:

Database containing all the College catalog information (different from Banner catalog database)

Database-Information

Output Flows:

Data

Data Data Flow

Description:

Contains any data coming from the College Catalog DB.

Source: Catalog DB (File) Dest: Format Results (Process)

Database-Information Data Flow

Description:

All database information submitted for the catalog.

Source: Query (Process) Dest: Catalog DB (File)

Format Results Process

Description:

Format queried results into aesthetically pleasing, easy to read text and possibly graphics

Input Flows:

Data

Output Flows:

Query-Results

Query Process

Description:

Request information from Catalog DB

Input Flows:

Query-Submission

Updated-Query

Output Flows:

Database-Information

Query-Results Data Flow

Description:

Formatted data returned to any user.

Source: Format Results (Process)

Dest: All Users (Source/Sink)

Query-Submission Data Flow

Description:

Submit new information to the catalog

Source: All Users (Source/Sink)

Dest: Query (Process)

Updated-Query Data Flow Description: Update information that already exists in the catalog. Source: All Users (Source/Sink) Dest: Query (Process)
Location – Format Results:
All Users Source/Sink Description: Any user with the ability to make changes to the catalog Input Flows: Query-Results
Catalog DB File Description: Database containing all the College catalog information (different from Banner catalog database) Output Flows: Data
Convert to HTML Format Process Description: Converts parced text to an HTML format so that is is viewable to the users. Input Flows: Parced-Text Output Flows: Query-Results
Convert to Parsed Text Process Description: Converts any raw data to parced text. Input Flows:

Input Flows:

Data

Output Flows:

Parced-Text

Data Data Flow

Description:

Contains any data coming from the College Catalog DB.

Source: Catalog DB (File)

Dest: Convert to Parsed Text (Process)

Parced-Text Data Flow

Description:
Parced Text.

Source: Convert to Parsed Text (Process)
Dest: Convert to HTML Format (Process)

Query-Results Data Flow

Description:

Formatted data returned to any user.

Source: Convert to HTML Format (Process)

Dest: All Users (Source/Sink)

1.5: Logical Data Stores

After consulting with our clients, Ms. Zimmerman and Mr. Smith, our group, in collaboration with IniTech software engineering group, compiled a list of all sections and subsections of the college catalog (as it was prepared for the 2004-2005 academic year). Along with this information, we indicated who would be editing this information, and the chain of command in which any given section will be edited and/or approved.

The following is that compiled list:

Table of Contents:

Source: Text file

College VP Area: Vice President of Academic Affairs

Editor: Kate Zimmerman (or appointee)

Hierarchy: None

Communications Directory:

Source: Text file

College VP Area: Vice President of Academic Affairs

Editor: Kate Zimmerman (or appointee)

Hierarchy: None

Academic Calendar:

Source: Text file

College VP Area: Vice President of Academic Affairs

Editor: Kate Zimmerman (or appointee)

Hierarchy: None

Siena College:

Source: Text file

General Information

College VP Area: President of the College

Editor: Fr. Kevin Mackin, O.F.M. (or appointee)

Hierarchy: President → Kate Zimmerman

Founding of the College

College VP Area: President of the College

Editor: Fr. Kevin Mackin, O.F.M. (or appointee)

Hierarchy: President → Kate Zimmerman

The Franciscan Liberal Arts Tradition

College VP Area: President of the College

Editor: Fr. Kevin Mackin, O.F.M. (or appointee)

Hierarchy: President → Kate Zimmerman

Mission Statement

College VP Area: President of the College

Editor: Fr. Kevin Mackin, O.F.M. (or appointee)

Hierarchy: President → Kate Zimmerman

Accreditation

College VP Area: Vice President for Enrollment and Planning

Editor: Noel Hogan (or appointee)
Hierarchy: VPEP → Kate Zimmerman

Retention Rates

College VP Area: Vice President for Enrollment and Planning

Editor: Noel Hogan (or appointee)
Hierarchy: VPEP → Kate Zimmerman

Growth of Campus Facilities

College VP Area: Vice President, Office of the President

Editor: Fr. James Toal, O.F.M. (or appointee)

Hierarchy: VPOP → Kate Zimmerman

Library / Audiovisual Resources

College VP Area: Vice President of Academic Affairs

Editor: Linda Richardson (or appointee) Hierarchy: VPAA → Kate Zimmerman

Information & Technology Services

College VP Area: Vice President of Finance & Administration

Editor: Paul Stec (or appointee)

Hierarchy: VPFA → Kate Zimmerman

Computer Ethics

College VP Area: Vice President of Finance & Administration

Editor: Paul Stec (or appointee)

Hierarchy: VPFA → Kate Zimmerman

Academic Integrity

College VP Area: Vice President of Academic Affairs

Editor: Linda Richardson (or appointee)

Hierarchy: VPAA → Kate Zimmerman

Student Records -Family Education Rights &...

College VP Area: Vice President of Academic Affairs

Editor: Linda Richardson (or appointee)

Hierarchy: VPAA → Kate Zimmerman

Student Access to Records

College VP Area: Vice President of Academic Affairs

Editor: Linda Richardson (or appointee)

Hierarchy: VPAA → Kate Zimmerman

Siena College Health Requirements

College VP Area: Vice President of Student Affairs

Editor: Maryellen Gilroy (or appointee) Hierarchy: VPSA → Kate Zimmerman Campus Crime Statistics

College VP Area: Vice President, Office of the President

Editor: Fr. James Toal, O.F.M. (or appointee)

Hierarchy: VPOP → Kate Zimmerman

Compliance Statements

College VP Area: Vice President of Finance & Administration

Editor: Paul Stec (or appointee)

Hierarchy: VPFA → Kate Zimmerman

Changes in College Regulations

College VP Area: Vice President of Finance & Administration

Editor: Paul Stec (or appointee)

Hierarchy: VPFA → Kate Zimmerman

Admission to the College:

Source: Text file

College VP Area: Vice President of Enrollment & Planning

Editor: Noel Hogan (or appointee) Hierarchy: VPEP → Kate Zimmerman

Subsections: All subsections have the same source, College VP area, editor, and

hierarchy.

The following are the subsections for this section:

General Requirements

Interviews

High School Course Requirements

When & How to Apply

Early Admission

Early Decision

Early Action

Higher Education Opportunity Program

International Applicants

Transfer Students

Re-entry Students

Non-matriculated Students

Auditing Students

International Students

Advanced Placement

International Baccalaureate

Undergraduate Tuition & Fees:

Source: Text file

College VP Area: Vice President of Finance & Administration

Editor: Paul Stec (or appointee)

Hierarchy: VPFA → Kate Zimmerman

Subsections: All subsections have the same source, College VP area, editor, and hierarchy.

The following are the subsections for this section:

General Info

Procedure for Payment

Payment by Check

Deposit

Rooms & Meals

Books & Supplies

General Estimate of Cost

Withdrawals & Refunds

Room & Board Fees

Academic Info & Regulations:

Source: Text file

College VP Area: Vice President of Academic Affairs

Editor: Linda Richardson (or appointee) Hierarchy: VPAA → Kate Zimmerman

Degree Requirements:

Source: Text file

College VP Area: Vice President of Academic Affairs

Editor: Linda Richardson (or appointee) Hierarchy: VPAA → Kate Zimmerman

Subsections: All subsections have the same source, College VP area, editor, and

hierarchy.

The following are the subsections for this section:

General Info

Core, Concentration, & Electives

Core Curriculum

Major

Changing Schools

Change of Major

Minor

Double Majors

Double Degrees - Simultaneous Awarding...

Second Degree

Transfer Credit for Matriculated Siena Student

Graduation

Academic Advising

Registration

Regular & Summer Sessions

Day & Evening Sessions

Unit of Instruction

Absences from Class

Change of Address

Pass/Fail Option

Adding a Course

Dropping a Course

Examinations

College Proficiency Examinations, Noncoll...

Academic Classification

System of Grading

Grade Reports

Appeal of Assigned Grades

Scholarship Indices (G.P.A)

Repeated Courses

Transcript of Record

Honor Lists

Honor Society

Graduation Honors

Good Academic Standing

Academic Probation & Academic Dismissal

Withdrawing from the College

Separation from the College

Snow Day Procedure

Faculty Attendance Policies

Courses of Instruction:

Attributes List

Source: Banner

College VP Area: Vice President of Academic Affairs

Editor: Linda Richardson (or appointee) Hierarchy: VPAA → Kate Zimmerman

Multidisciplinary Courses, Certificates, etc.:

College VP Area: Vice President of Academic Affairs

Editor: Program Director

Hierarchy: Program Director → Kate Zimmerman

Convivium

General Info

Source: Text file

Course Desc

Criminal Justice Minor Environmental Studies Certificate Program

General Info

Source: Text file

Foundations Sequence

General Info

Source: Text file

Course List/Requirements

Source: Banner

Franciscan Service & Advocacy Minor

General Info

Source: Text file

Course List/Requirements

Source: Banner

Course Desc

Source: Banner

Globalization Studies Minor

Professors

Source: Text file

General Info

Source: Text file

Course List/Requirements

Source: Banner

Course Desc

Source: Banner

Health Care Minors

General Info

Source: Text file

Course List/Requirements

Source: Banner

Honors Program

General Info

Source: Text file

International Studies:

College VP Area: Vice President of Academic Affairs

Editor: Program Director

Hierarchy: Program Director → Kate Zimmerman

Foreign Language & Business Cert Program

Professors

Source: Text file

General Info

Source: Text file

Course List/Requirements

Source: Banner

Multicultural Studies Minor

General Info

Source: Text file Course List/Requirements Source: Banner

Course Desc

Source: Banner

Peace Studies Certificate Program

Professors

Source: Text file

General Info

Source: Text file

Course Desc

Source: Banner

Women's Studies Minor

General Info

Source: Text file

Course List/Requirements

Source: Banner

Course Desc

Source: Banner

School of Liberal Arts:

College VP Area: Vice President of Academic Affairs

Hierarchy: Department Head/Program Director → Assistant Dean → Kate Zimmerman

Professors

Source: Text file

Editor: Assistant Dean (or appointee)

Course Desc

Source: Banner

Editor: Assistant Dean (or appointee)

American Studies Program

Editor: Program Director (or appointee)

Professors

Source: Text file

General Info

Source: Text file

Course Desc

Source: Banner

Creative Arts

Editor: Department Head

Professors

Source: Text file

General Info

Source: Text file

Course Desc

Source: Banner

Theatre Program

Editor: Program Director (or appointee)

Professors

Source: Text file

General Info

Source: Text file

Course Desc

Source: Banner

Education Dept

Editor: Department Head

Professors

Source: Text file

General Info

Source: Text file

Course Desc

English Dept

Editor: Department Head

Professors

Source: Text file

General Info

Source: Text file

Course Desc

Source: Banner

English Honors Program

Editor: Program Director (or appointee)

Professors

Source: Text file

General Info

Source: Text file

Course Desc

Source: Banner

History Dept

Editor: Department Head

Professors

Source: Text file

General Info

Source: Text file

Course Desc

Source: Banner

History Honors Program

Editor: Program Director (or appointee)

Professors

Source: Text file

General Info

Source: Text file

Course Desc

Modern Language & Classics Dept

Editor: Department Head

Professors

Source: Text file

General Info

Source: Text file

Course Desc

Source: Banner

American Sign Language

Course Desc

Source: Banner

French

Course Desc

Source: Banner

German

Course Desc

Source: Banner

Russian

Course Desc

Source: Banner

Spanish

Course Desc

Source: Banner

Classics – Latin

Course Desc

Source: Banner

Greek

Course Desc

Source: Banner

Greek Classical Studies

Course Desc

Philosophy Dept

Editor: Department Head

Professors

Source: Text file

General Info

Source: Text file

Course Desc

Source: Banner

Political Science Dept

Editor: Department Head

Professors

Source: Text file

General Info

Source: Text file

Course Desc

Source: Banner

Psychology Dept

Editor: Department Head

Professors

Source: Text file

General Info

Source: Text file

Course Desc

Source: Banner

Religious Studies Dept

Editor: Department Head

Professors

Source: Text file

General Info

Source: Text file

Course Desc

Social Work Dept

Editor: Department Head

Professors

Source: Text file

General Info

Source: Text file

Course Desc

Source: Banner

Sociology Dept

Editor: Department Head

Professors

Source: Text file

General Info

Source: Text file

Course Desc

Source: Banner

School of Business:

College VP Area: Vice President of Academic Affairs

Hierarchy: Department Head/Program Director → Assistant Dean → Kate Zimmerman

Accounting and Business Law

Editor: Department Head

Professors

Source: Text file

General Info

Source: Text file

Course Desc

Source: Banner

Business Law

Course Desc

Source: Banner

Economics Dept

Editor: Department Head

Professors

Source: Text file

General Info

Source: Text file

Course Desc

Source: Banner

Finance Dept

Editor: Department Head

Professors

Source: Text file

General Info

Source: Text file

Course Desc

Source: Banner

Marketing Management Dept

Editor: Department Head

Professors

Source: Text file

General Info

Source: Text file

Course Desc

Source: Banner

Quantitative Business Analysis Dept

Editor: Department Head

Professors

Source: Text file

General Info

Source: Text file

Course Desc

Source: Banner

School of Science:

College VP Area: Vice President of Academic Affairs

Hierarchy: Department Head/Program Director → Assistant Dean → Kate Zimmerman

Biology Dept

Editor: Department Head

Professors

Source: Text file

General Info

Source: Text file

Course Desc

Source: Banner

Chemistry Dept

Editor: Department Head

Professors

Source: Text file

General Info

Source: Text file

Course Desc

Source: Banner

Computer Science Dept

Editor: Department Head

Professors

Source: Text file

General Info

Source: Text file

Course Desc

Source: Banner

Environmental Studies Program

Editor: Department Head

Professors

Source: Text file

General Info

Source: Text file

Course Desc

Source: Banner

Mathematics Dept

Editor: Department Head

Professors

Source: Text file

General Info

Source: Text file

Course Desc

Source: Banner

Physics Dept

Editor: Department Head

Professors

Source: Text file

General Info

Source: Text file

Course Desc

Source: Banner

Military Science Department:

College VP Area: Vice President of Academic Affairs

Editor: Department Head

Hierarchy: Department Head → Kate Zimmerman

Professors

Source: Text file

General Info

Source: Text file

Course Desc

Source: Banner

Off Campus Opportunities:

Source: Text file

College VP Area: Vice President of Academic Affairs

Editor: Program Director

Hierarchy: Program Director → Kate Zimmerman

Subsections: All subsections have the same source, College VP area, editor, and

hierarchy.

The following are the subsections for this section:

Internships General Info Study Abroad General Info Washington Semester General Info

Pre-Professional Studies:

Source: Text file

College VP Area: Vice President of Academic Affairs

Editor: Program Director(s)

Hierarchy: Program Director(s) → Kate Zimmerman

Subsections: All subsections have the same source, College VP area, editor, and

hierarchy.

The following are the subsections for this section:

Pre-Law Studies General Info

Pre-Medical, Pre-Dental and other Health-Related Studies General Info

Allied Health Professions General Info

Affiliation/Articulation Agreements:

Source: Text file

College VP Area: Vice President of Academic Affairs

Editor: Program Director(s)

Hierarchy: Program Director → Kate Zimmerman

Subsections: All subsections have the same source, College VP area, editor, and

hierarchy.

The following are the subsections for this section:

2- Year Institutions General Info

Albany Medical Early Assurance General Info

Albany Medical Program in Science, Humanities and Medicine General Info

Boston University Goldman School of Graduate Dentistry General Info

Business Management Programs General Info

Engineering Programs General Info

Environmental Science/Forestry Program General Info

Hudson-Mohawk Association General Info

Law School Programs General Info

Pennsylvania College of Optometry Program General Info

Social Work Masters Program General Info

SUNY Buffalo School of Dental Medicine Program General Info

SUNY College of Optometry Early Assurance Program General Info

SUNY College of Optometry Joint Affiliation Program General Info SUNY

College of Medicine Early Assurance General Info

Temple University College of Podiatric Medicine Program General Info

Special Programs:

Source: Text file

College VP Area: Vice President, Office of the President

Editor: Fr. James Toal, O.F.M. (or appointee) Hierarchy: VPOP → Kate Zimmerman

Subsections: All subsections have the same source, College VP area, editor, and hierarchy.

The following are the subsections for this section:

Kieval Institute for Jewish Christian Studies General Info

MLK Jr. and Coretta Scott King Lecture Series on Race and Nonviolent Social Change General Info

Reinhold Niebuhr Institure of Religion and Culture General Info

Siena Business Institute General Info

Siena Research Institute General Info

The Siena Community:

Source: Text file

College VP Area: Vice President, Office of the President

Editor: Maryellen Gilroy (or appointee) Hierarchy: VPSA → Kate Zimmerman

Subsections: All subsections have the same source, College VP area, editor, and

hierarchy.

The following are the subsections for this section:

Office of College Chaplain General Info

Franciscan Center for Service and Advocacy General Info

Student Life General Info

Student Government General Info

Student Activities General Info

Weekend Activities General Info

Dramatics General Info

Music General Info

Athletics Program General Info

Concerts General Info

Guest Lecturers General Info

Residence Life General Info

Motor Vehicle Registration and Traffic Violations General Info

Dining General Info

Student Services Orientation General Info

Commuter Students General Info

Sarazen Student Union General Info

Multicultural Affairs General Info

Counseling Center General Info

The Writing Center General Info

Office of Tutoring and Services for Students with Disabilities General Info

Learning Support Services General Info

Health Services General Info

Career Services:

General Info

Source: Text document

College VP Area: Vice President of Academic Affairs

Editor: Thomas Denham, Director of the Career Center (or appointee)

Hierarchy: Director of Career Center → Kate Zimmerman

Financial Aid:

Source: Text file

College VP Area: Vice President for Enrollment Planning

Editor: Noel Hogan (or appointee) Hierarchy: VPEP → Kate Zimmerman

Subsections: All subsections have the same source, College VP area, editor, and

hierarchy.

The following are the subsections for this section:

General Info

Grants and Scholarships General Info

State and Federal Aid Programs General Info

Criteria for Renewal of Financial Aid General Info

Satisfactory Academic Progress General Info

Federal Aid General Info

NYS Aid General Info

Appealing the Withdrawal of Aid General Info

State and Federal Aid Programs Descriptions

Directory:

Source: Banner

Hierarchy: Kate Zimmerman

Subsections: All subsections have the same source, College VP area, editor, and

hierarchy.

The following are the subsections for this section:

Board of Trustees

Office of the President

Office of the Vice President

Athletic Department

Office of the College Chaplain

Plant Operations

Safety and Security

Office of VP for Academic Affairs

School Officers

Career Center

HEOP

Library/Audio Visual Services

Center for Continuing and Professional Education

Office of International Programs

Office of the Registrar

Office of Tutoring and Services for Students with Disabilities

Writing Center

Office of the VP for Community and Public Affairs

Siena Research Insititute

WVCR

Office of VP for Enrollment and Planning

Office of Admissions

Office of Financial Aid

Communications

Office of Enrollment and Planning

Office of the VP for Finance and Administation

Business Affairs

Human Resources

Information & Technology Services

Post Office

Purchasing

Office of VP for Institutional Advancement

Alumni Relations

Annual Fund

Office of the VP for Student Affairs

Counseling Center

Franciscan Center for Service and Advocacy

Health Services

Residence Life

Campus Programs

Multicultural Affairs

Full-Time Faculty

Part-Time Faculty

Professors Emeriti

Vice President Emeritus

Registrar Emerita

The final subsection does not follow the same format, and is as follows:

Committees of the College

Source: Text file

College VP Area: Vice President of Academic Affairs

Editor: Kate Zimmerman

Hierarchy: None

Index:

Source: Text File Editor: Publisher

Hierarchy: Publisher → Kate Zimmerman

Directions to the College:

Source: Text document

College VP Area: Vice President, Office of the President

Editor: Fr. James Toal, O.F.M. (or appointee)

Hierarchy: VPOP → Kate Zimmerman

Additionally, our group, in a collaborative effort with IniTech, we met with Jim Serbalik, Director of the Registrar, and Stephanie Kot, a staff member in Information & Technology Services (I&TS). Mr. Serbalik and Ms. Kot informed us of the forms and the tables (associated with the forms) that we would need access to from Banner to gather information for our database.

The following are a list of the tables and fields necessary for our database, organized by the forms we would need access to from Banner:

Form: SCARRES (owned by Registrar)

Table: SCRRCOL

Fields: SCRRCOL_SUBJ_CODE
SCRRCOL_CRSE_NUMB
SCRRCOL_EFF_TERM
SCRRCOL_REC_TYPE
SCRRCOL_COLL_IND
SCRRCOL_COLL_CODE
SCRRCOL_ACTIVITY DATE

Table: SCRRMAJ

Fields: SCRRMAJ_SUBJ_CODE
SCRRMAJ_CRSE_NUMB
SCRRMAJ_EFF_TERM
SCRRMAJ_REC_TYPE
SCRRMAJ_MAJOR_IND
SCRRMAJ_MAJR_CODE
SCRRMAJ_ACTIVITY DATE

```
Table: SCRRCLS
     Fields: SCRRCLS_SUBJ_CODE
          SCRRCLS CRSE NUMB
          SCRRCLS EFF TERM
          SCRRCLS REC TYPE
          SCRRCLS CLASS IND
          SCRRCLS CLAS CODE
          SCRRCLS ACTIVITY DATE
Table: SCRRLVL
     Fields: SCRRLVL SUBJ CODE
          SCRRLVL CRSE NUMB
          SCRRLVL EFF TERM
          SCRRLVL REC TYPE
          SCRRLVL LEVL IND
          SCRRLVL LEVL CODE
          SCRRLVL ACTIVITY DATE
Table: SCRRDEG
     Fields: SCRRDEG SUBJ CODE
          SCRRDEG CRSE NUMB
          SCRRDEG TERM CODE EFFECTIVE
          SCRRDEG REC TYPE
          SCRRDEG ACTIVITY DATE
          SCRRDEG DEGC IND
          SCRRDEG DEGC CODE
Table: SCRRPRG
     Fields: SCRRPRG SUBJ CODE
          SCRRPRG CRSE NUMB
          SCRRPRG TERM CODE EFFECTIVE
          SCRRPRG REC TYPE
          SCRRPRG ACTIVITY DATE
          SCRRPRG PROGRAM IND
          SCRRPRG PROGRAM
Table: SCRRCAM
     Fields: SCRRCAM SUBJ CODE
          SCRRCAM CRSE NUMB
          SCRRCAM EFF TERM
          SCRRCAM REC TYPE
```

SCRRCAM_CAMP_IND SCRRCAM_CAMP_CODE SCRRCAM ACTIVITY DATE

Form: SCABASE (owned by Registrar)

Table: SCBCRKY

Fields: SCBCRKY_SUBJ_CODE SCBCRKY_CRSE_NUMB

> SCBCRKY_TERM_CODE_START SCBCRKY_TERM_CODE_END SCBCRKY_ACTIVITY_DATE

Form: SCADETL (owned by Registrar)

Table: SCREQIV

Fields: SCREQIV_SUBJ_CODE SCREQIV_CRSE_NUMB SCREQIV_EFF_TERM

SCREQIV_EIT_TERM
SCREQIV_SUBJ_CODE_EQIV
SCREQIV_CRSE_NUMB_EQIV
SCREQIV_START_TERM
SCREQIV_END_TERM
SCREQIV_ACTIVITY_DATE

Table: SCRFEES

Fields: SCRFEES_SUBJ_CODE
SCRFEES_CRSE_NUMB
SCRFEES_EFF_TERM
SCRFEES_DETL_CODE
SCRFEES_FEE_IND
SCRFEES_FEE_IND_IND
SCRFEES_FEE_AMOUNT
SCRFEES_ACTIVITY_DATE
SCRFEES_FTYP_CODE

Table: SCRATTR

Fields: SCRATTR_SUBJ_CODE SCRATTR_CRSE_NUMB SCRATTR_EFF_TERM SCRATTR_ATTR_CODE SCRATTR_ACTIVITY_DATE

```
Table: SCBSUPP
     Fields: SCBSUPP SUBJ CODE
          SCBSUPP CRSE NUMB
          SCBSUPP EFF TERM
          SCBSUPP TOPS CODE
          SCBSUPP OCCS CODE
          SCBSUPP CCSL CODE
          SCBSUPP COOP ED IND
          SCBSUPP ACTIVITY DATE
          SCBSUPP PERM DIST IND
          SCBSUPP CUDA CODE
          SCBSUPP CUDB CODE
          SCBSUPP CUDC CODE
          SCBSUPP CUDD CODE
          SCBSUPP CUDE CODE
          SCBSUPP CUDF CODE
          SCBSUPP CREDIT CATEGORY IND
Table: SCBDESC
     Fields: SCBDESC SUBJ CODE
          SCBDESC CRSE NUMB
          SCBDESC TERM CODE EFF
          SCBDESC ACTIVITY DATE
          SCBDESC USER ID
          SCBDESC TEXT NARRATIVE
          SCBDESC TERM CODE END
Table: SCRTEXT
     Fields: SCRTEXT_SUBJ_CODE
          SCRTEXT CRSE NUMB
          SCRTEXT EFF TERM
          SCRTEXT TEXT CODE
          SCRTEXT SEQNO
          SCRTEXT TEXT
          SCRTEXT ACTIVITY DATE
Table: SCRCORQ
     Fields: SCRCORQ SUBJ CODE
          SCRCORO CRSE NUMB
          SCRCORQ EFF TERM
          SCRCORQ SUBJ CODE CORQ
          SCRCORQ CRSE NUMB CORQ
          SCRCORQ ACTIVITY DATE
```

Table: SCRSBGI

Fields: SCRSBGI_SUBJ_CODE SCRSBGI_CRSE_NUMB SCRSBGI_EFF_TERM SCRSBGI_SBGI_CODE

> SCRSBGI_AGREEMENT_DATE SCRSBGI_ACTIVITY_DATE

Form: SCACRSE (owned by Registrar)

Table: SCRLEVL

Fields: SCRLEVL_SUBJ_CODE SCRLEVL_CRSE_NUMB SCRLEVL_EFF_TERM SCRLEVL_LEVL_CODE SCRLEVL_ACTIVITY_DATE

Table: SCRGMOD

Fields: SCRGMOD_SUBJ_CODE
SCRGMOD_CRSE_NUMB
SCRGMOD_EFF_TERM
SCRGMOD_GMOD_CODE
SCRGMOD_ACTIVITY_DATE
SCRGMOD_DEFAULT_IND

Table: SCRSCHD

Fields: SCRSCHD_SUBJ_CODE

SCRSCHD_CRSE_NUMB

SCRSCHD_EFF_TERM

SCRSCHD_SCHD_CODE

SCRSCHD_ACTIVITY_DATE

SCRSCHD_WORKLOAD

SCRSCHD_MAX_ENRL

SCRSCHD_ADJ_WORKLOAD

SCRSCHD_ADJ_WORKLOA SCRSCHD INSM CODE

Table: SCRCPRT

Fields: SCRCPRT_SUBJ_CODE
SCRCPRT_CRSE_NUMB
SCRCPRT_TERM_CODE_EFF
SCRCPRT_ACTIVITY_DATE
SCRCPRT_USER_ID
SCRCPRT_PARS_CODE

SCRCPRT_PARS_PREF_NUMBER

```
Table: SCRCRDF
```

Fields: SCRCRDF_SUBJ_CODE

SCRCRDF CRSE NUMB

SCRCRDF TERM CODE EFF

SCRCRDF ACTIVITY DATE

SCRCRDF_USER_ID

SCRCRDF RDEF CODE

SCRCRDF RDEF PREF NUMBER

Table: SCBCRSE

Fields: SCBCRSE SUBJ CODE

SCBCRSE CRSE NUMB

SCBCRSE EFF TERM

SCBCRSE COLL CODE

SCBCRSE DIVS CODE

SCBCRSE DEPT CODE

SCBCRSE CSTA CODE

SCBCRSE TITLE

SCBCRSE CIPC CODE

SCBCRSE CREDIT HR IND

SCBCRSE CREDIT HR LOW

SCBCRSE CREDIT HR HIGH

SCBCRSE LEC HR IND

SCBCRSE LEC HR LOW

SCBCRSE LEC HR HIGH

SCBCRSE LAB HR IND

SCBCRSE LAB HR LOW

SCBCRSE LAB HR HIGH

SCBCRSE OTH HR IND

SCBCRSE OTH HR LOW

SCBCRSE OTH HR HIGH

SCBCRSE BILL HR IND

SCBCRSE BILL HR LOW

SCBCRSE BILL HR HIGH

SCBCRSE APRV CODE

SCBCRSE REPEAT LIMIT

SCBCRSE PWAV CODE

SCBCRSE TUIW IND

SCBCRSE ADD FEES IND

SCBCRSE ACTIVITY DATE

SCBCRSE CONT HR LOW

SCBCRSE CONT HR HIGH

SCBCRSE CONT HR IND

SCBCRSE CEU IND

SCBCRSE REPS CODE

SCBCRSE MAX RPT UNITS

SCBCRSE CAPP PREREQ TEST IND

SCBCRSE_DUNT_CODE SCBCRSE_NUMBER_OF_UNITS

Form: SCAPREQ (owned by Registrar)

Table: SCRRTST

Fields: SCRRTST_SUBJ_CODE SCRRTST_CRSE_NUMB

SCRRTST TERM CODE EFF

SCRRTST SEQNO

SCRRTST_TESC_CODE

SCRRTST_TEST_SCORE

SCRRTST_SUBJ_CODE_PREQ SCRRTST_CRSE_NUMB_PREO

SCRRTST_LEVL_CODE SCRRTST MIN GRDE

SCRRTST CONCURRENCY IND

SCRRTST CONNECTOR

SCRRTST LPAREN

SCRRTST_RPAREN

SCRRTST_ACTIVITY_DATE

Table: SCRRARE

Fields: SCRRARE_SUBJ_CODE

SCRRARE_CRSE_NUMB

SCRRARE TERM CODE EFFECTIVE

SCRRARE ACTIVITY DATE

SCRRARE_SEQNO

SCRRARE AREA

Table: SCBCRSE

Fields: SCBCRSE SUBJ CODE

SCBCRSE CRSE NUMB

SCBCRSE EFF TERM

SCBCRSE COLL CODE

SCBCRSE_DIVS_CODE

SCBCRSE DEPT CODE

SCBCRSE CSTA CODE

SCBCRSE TITLE

SCBCRSE CIPC CODE

SCBCRSE CREDIT HR IND

SCBCRSE CREDIT HR LOW

SCBCRSE CREDIT_HR_HIGH

SCBCRSE LEC HR IND

SCBCRSE LEC HR LOW

SCBCRSE LEC HR HIGH

SCBCRSE LAB HR IND

SCBCRSE LAB HR LOW

SCBCRSE LAB HR HIGH

SCBCRSE OTH HR IND SCBCRSE OTH HR LOW SCBCRSE OTH HR HIGH SCBCRSE BILL HR IND SCBCRSE BILL HR LOW SCBCRSE BILL HR HIGH SCBCRSE APRV CODE SCBCRSE REPEAT LIMIT SCBCRSE PWAV CODE SCBCRSE TUIW IND SCBCRSE ADD FEES IND SCBCRSE ACTIVITY DATE SCBCRSE CONT HR LOW SCBCRSE CONT HR HIGH SCBCRSE CONT HR IND SCBCRSE CEU IND SCBCRSE REPS CODE SCBCRSE MAX RPT UNITS SCBCRSE CAPP PREREQ TEST IND SCBCRSE DUNT CODE SCBCRSE NUMBER OF UNITS

Form: PPAIDEN (owned by Human Resources)

Table: SPRIDEN

Fields: SPRIDEN_PIDM

SPRIDEN_ID

SPRIDEN LAST NAME

SPRIDEN FIRST NAME

SPRIDEN MI

SPRIDEN CHANGE IND

SPRIDEN ENTITY IND

SPRIDEN ACTIVITY DATE

SPRIDEN USER

SPRIDEN ORIGIN

SPRIDEN SEARCH LAST NAME

SPRIDEN SEARCH FIRST NAME

SPRIDEN SEARCH MI

SPRIDEN SOUNDEX LAST NAME

SPRIDEN SOUNDEX FIRST NAME

SPRIDEN NTYP CODE

SPRIDEN CREATE USER

SPRIDEN CREATE DATE

SPRIDEN DATA ORIGIN

Table: PEBEMPL

Fields: PEBEMPL PIDM

PEBEMPL EMPL STATUS

PEBEMPL COAS CODE_HOME

PEBEMPL ORGN CODE HOME

PEBEMPL COA CODE DIST

PEBEMPL ORGN CODE DIST

PEBEMPL ECLS CODE

PEBEMPL LCAT CODE

PEBEMPL BCAT CODE

PEBEMPL FIRST HIRE DATE

PEBEMPL CURRENT HIRE DATE

PEBEMPL ADJ SERVICE DATE

PEBEMPL SENIORITY DATE

PEBEMPL LREA CODE

PEBEMPL LOA BEG DATE

PEBEMPL LOA END DATE

PEBEMPL TREA CODE

PEBEMPL TERM DATE

PEBEMPL 19 FORM IND

PEBEMPL 19 DATE

PEBEMPL 19_EXPIRE_DATE

PEBEMPL ACTIVITY DATE

PEBEMPL WKPR CODE

PEBEMPL FLSA IND

PEBEMPL STGR CODE

PEBEMPL DAYS IN CANADA

PEBEMPL 1042 RECIPIENT CD

PEBEMPL INTERNAL FT PT IND

PEBEMPL DICD CODE

PEBEMPL EGRP CODE

PEBEMPL IPEDS SOFT MONEY IND

PEBEMPL FIRST WORK DATE

PEBEMPL LAST WORK DATE

PEBEMPL CALIF PENSION IND

PEBEMPL NRSI CODE

PEBEMPL SSN LAST NAME

PEBEMPL SSN FIRST NAME

PEBEMPL SSN MI

PEBEMPL SSN SUFFIX

PEBEMPL JBLN CODE

PEBEMPL COLL CODE

PEBEMPL CAMP CODE

In order to have a better understanding of how these tables apply to our system, we have provided a couple of examples of information we would need. One example provides information for a department (to keep our information consistent, specifically the Computer Science Department), and one example will provide material from Banner for the Directory information of the catalog.

If we needed to retrieve course information for the Computer Science Department, we would be looking for information that would affect the SCACRSE, SCAPREQ, and SCADETL database forms. From the SCBCRSE table, which affects the SCACRSE form, we would need information such as SCBCRSE_CRSE_NUMB, SCBCRSE_TITLE, SCBCRSE_CREDIT_HR_IND, SCBCRSE_CREDIT_HR_LOW, SCBCRSE_CREDIT_HR_HIGH, SCBCRSE_LEC_HR_IND, SCBCRSE_LEC_HR_LOW, SCBCRSE_LEC_HR_HIGH, SCBCRSE_LAB_HR_IND, SCBCRSE_LAB_HR_LOW, SCBCRSE_LAB_HR_HIGH, SCBCRSE_OTH_HR_IND, SCBCRSE_OTH_HR_LOW, SCBCRSE_OTH_HR_HIGH, SCBCRSE_BILL_HR_IND, SCBCRSE_BILL_HR_LOW, SCBCRSE_BILL_HR_HIGH, SCBCRSE_REPEAT_LIMIT, SCBCRSE_CAPP_PREREQ_TEST_IND.

If we needed to retrieve course information for the Directory, we would be looking for listings of faculty, staff, administrators, and Board of Trustee members, to name a few. Therefore, we would need information from tables that affect the PPAIDEN forms. From the SPRIDEN table, we would need the following fields: SPRIDEN_LAST_NAME, SPRIDEN_FIRST_NAME, SPRIDEN_MI, SPRIDEN_CHANGE_IND, SPRIDEN_ENTITY_IND, SPRIDEN_USER, SPRIDEN ORIGIN, SPRIDEN DATA ORIGIN.

It is possible that we will need more information from these tables than what we have listed, as we have not actually seen the tables and may need more fields provided within them upon actually seeing what is stored inside those fields.

1.6: Logical Format of Data Files and Databases

The information used to develop our catalog will be stored in a database system. As we have determined from information from our clients, the data needed to create the college catalog are typically text documents, since text files are what is sent to the catalog publisher. Also, text files allows for easier editing for any users. Therefore, our database will have tables that will store our information in text files.

As we have stated in the last section, we will also need to copy Banner tables into our database, as Banner contains the most up-to-date information about courses and faculty. The information that we retrieve from Banner will also be stored in text format, allowing the entire document to be visible within Microsoft Word, or any other word processing program.

2.1: GUI Testing

Requirements Inventory

- To test that all screens are properly displayed on monitors of various sizes.
- To test the connectivity between the database and the system.
- To test that all information inputted is kept in a secure database, avoiding misuse.
- To test that information in the database stays updated in real time
- To test that all links, scroll bars, drop boxes, and submit buttons work on all the screens.
- To test that the system can decipher text boxes to have proper read or write access

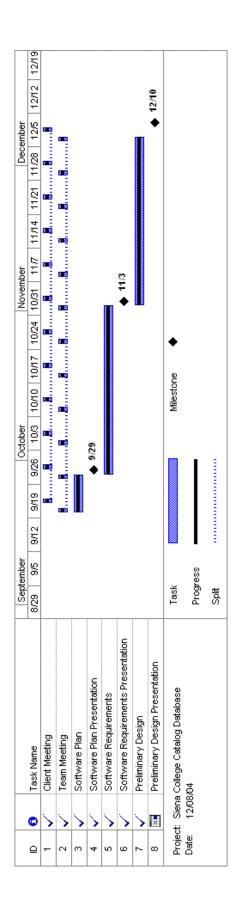
Design Inventory

The design inventory for testing is going to incorporate all of the different screens that will be used in the system. The system will use a different set of screens for different users. The type of screen the user would interact with will be determined by the permissions that each user is allotted. The first screen is the login screen. For this screen we will test that the system will log the user into its system and transfer the user to their proper section of the system.

Every screen that is involved in the system will have to be tested. These tests will include the obvious tests of all links and buttons on the screens. Besides those test, all pages will require specific tests. These tests will be used to make sure that the screens are able to submit the proper information to the database which is the principle software behind the system.

The other screens that will be tested are the catalog text editor pages. These pages will be tested to make sure that one side is read-only while the other side of the screen is a carbon copy with write access to make changes. This screen will consist of text editor software that is opened twice on the same screen. Also we will test the text editor to make sure that all changes are viewer friendly by changing the text color of edited material on the write-access side.

3.A: Gantt Chart



3.B: Glossary of Terms

- **Access** A relational database running under Microsoft Windows.
- **Browser** An application program that provides a way to look at and interact with all the information on the World Wide Web.
- **Code** Symbolic arrangement of data or instructions in a computer program, or a set of such instructions
- **Controlled Decentralized** An organizational structure for teams, in which a team leader is defined, but all problem solving and decision-making is the responsibility of the group.
- **Database** An information management system used for storing and retrieving related data.
- **Data Store** Generic physical files that contain data necessary for the program, but which is external from the software developed.
- **Data flow diagram** A representation of the functional decomposition of a system.
- **Dreamweaver** A program used in the development of web pages.
- **Gantt Chart** A graphical-based, progressive timeline containing relevant dates, often used with regard to planning and tracking a project.
- **GUI** *Graphical User Interface:* A user interface based on graphics (icons, pictures, and menus) instead of text; uses a mouse as well as a keyboard as an input device.
- **HTML** *Hypertext Transfer Markup Language*: A markup language used to structure text and multimedia documents and to set up hypertext links between documents, used extensively on the World Wide Web.
- **Hypertext** A computer-based text retrieval system that enables a user to access particular locations in web pages or other electronic documents by clicking on links within specific web pages or documents.
- **Internet** An interconnected system of networks that connects computers around the world via the TCP/IP protocol.
- **Java Script** A language used in the development of web pages.
- **Linear Sequential Model** Sometimes called the *classic life cycle* or the *waterfall model*, this model, originally developed by W.W. Royce, suggests a systematic, sequential approach to software development that begins at the system level and progresses through analysis, design, coding, testing, and support.

mySQL – Open-Source database software

Network – A network of data processing nodes that is interconnected for the purpose of data communication.

Open-Source – A method and philosophy for software licensing and distribution designed to encourage use and improvement of software by making the code freely available.

Oracle – A relational database management system that runs on most mainframe, micro, and personal computers.

PHP – PHP: Hypertext Preprocessor (server-side scripting language).

Process – An activity that changes or manipulates data.

Protocol – A standard procedure for regulating data transmission between computers.

Query – A data retrieval request.

Relational Database – A database system in which any database file can be a component of more than one of the database's tables.

Software – Written programs, procedures, or rules and associated documentation pertaining to the operation of a computer system and that are stored in read/write memory.

SQL – *Structured Query Language*: A language used in the creation and maintenance of databases.

Use Case – Set of scenarios that show a usage of the system by a certain user.

User – An individual that has signed onto a system and has been assigned a user name and password.

Username – A system created login for users.

Universal User – Any person, whether directly or indirectly involved with the system, who has the ability to perform certain functions. In the case of the *Siena College Catalog Project*, any universal user has the ability to view the Siena College Catalog via the Internet.

Visual Basic – A popular event-driven visual programming system from Microsoft Corporation for Microsoft Windows.

Web-based – Uses the World Wide Web (via HTML) on the Internet to gain access to the system.