Use Case Document

Name	Date	Reason For Changes	Version
Nat Welch	2/1/09	Merged wiki versions of use cases	0.420
Katherine Blizard	2/3/09	Made so many changes	1.410
Nat Welch	2/4/09	Made even more changes	1.420
Katherine Blizard	2/5/09	Reworked all of the "Modified" Use Cases	1.430
Victor Gerdin	2/9/09	Added more Use Cases	1.440
Nat Welch	2/9/09	Merged Victor's Work and re-factored list	1.510
Nat Welch	2/10/09	Continued Merging and Editing	1.542
Nat Welch	2/17/09	Added Katherine's Work and did some major edits	2.001

Actor: Student

1. View Announcements
2. View grade
3. Check Course standing
4. Predict Grade in Course
5. Printer Friendly page
6. Download file
7. Upload File
8. Reset Password

Actor: Teacher

9. View Metrics
10. Add Course
11. Remove Course
12. Edit Course
13. Add Users
14. Remove Users
15. Edit Users
16. Add Assignment
17. Remove Assignment
18. Edit Assignments
19. Add Announcement
20. Remove Announcement
21. Edit Announcement
22. Send Email
23. Grade Students
24. View roster
25. Take attendance
26. Adjust grading curve
27. Import data
28. Export data

Use Case	UC-1	Use Case Name	View Announcements
Created By	Nat Welch	**Last Modified By**	Nat Welch
Date Created	1/26/09	**Last Change**	2/17/09
Actor	**Student**		
Description	The system shows all of the **Announcement**(s) posted by the **Teacher** sorted with the most recently posted **Announcement** at the top of the list. A **Student** can view this list and each **Announcement** shows a title, time and date, and the content of the **Announcement**.		
Pre-conditions	**Student** must be enrolled in the **Course** and authenticated with the system.		
Post-conditions	The **Announcement** list as specified in the description is displayed.		
Normal Flow	1. Actor chooses **Announcement**(s) 2. System displays list of all of the **Announcement**(s) 3. Actor chooses an **Announcement**		
Alternate Flow	None		
Frequency of Use	Once a day		
Exceptions	If no **Announcement** has been made the system displays a "No announcements" message.		
Includes	None		
Special Requirements	None		
Assumptions	None		
Notes and Issues	None		
Priority	High		

Use Case	UC-2	Use Case Name	View Grade
Created By	Nat Welch	Last Modified By	Nat Welch
Date Created	1/25/09	Last Change	2/17/09
Actor	**Student**		
Description	The System displays a table that summarizes all of the grades the Actor has received for the **Course.** This summary includes the **Assignment Name**, **Assignment Grade**, and **Assignment Total** for each **Assignment.**		
Pre-conditions	**Student** must be enrolled in the **Course** and authenticated with the system.		
Post-conditions	The **Announcement** list as specified in the description is displayed.		
Normal Flow	1. The actor chooses to "View Grade" 2. The system presents a table of **Student Assignment Grades** and a **Total Grade.** 3. The **Student** can choose to select a column of the table to sort.		
Alternate Flow	None		
Frequency of Use	Once a week		
Exceptions	If an **Assignment** has not been graded yet, System displays a table with **Assignment** names but the **Assignment Score** is not displayed. If no **Assignment** have been graded yet, System displays the words "No Assignments Yet" instead of the table.		
Includes	None		
Special Requirements	The **Student** can see only his own grades. This is a requirement specified by the Peer-Grading section of FERPA.		
Assumptions	None		
Notes and Issues	None		
Priority	High		

Use Case	UC-3	Use Case Name	Check Course Standing
Created By	Nat Welch	**Last Modified By**	Nat Welch
Date Created	1/30/09	**Last Change**	2/17/09
Actor	Student		
Pre-conditions	**Student** must be enrolled in the **Course** and authenticated with the system.		
Post-conditions	None		
Description	The System displays a selection of graphs that show a comparison of the **Assignment Grades** and **Total Grades** of all the **Student**(s) in the **Course.**		
Normal Flow	1. Actor chooses to "Check Course Standing" 2. System displays comparison metrics.		
Alternate Flow	None		
Frequency of Use	Once a week		
Exceptions	If the **Student** is alone in the **Course,** the system displays an error message. If no **Assignment Grades** exist, system displays an error message. If no **Assignment Grades** have been graded yet, system displays an error message.		
Includes	None		
Special Requirements	**Student** should not be able to discern the identity of other **Student** in the **Course.** This requirement comes from FERPA.		
Assumptions	None		
Notes and Issues	None		
Priority	Medium		
Notes and Issues	None		
Priority	Medium		

WHERE IS USE CASE 4?!

Use Case	UC-5	Use Case Name	Printer Friendly Display
Created By	Michael Quan	**Last Modified By**	Nat Welch
Date Created	1/31/09	**Last Change**	2/17/09
Actor	Student, Teacher		
Pre-conditions	Actor must be authenticated with the system.		
Post-conditions	None		
Description	The System displays a page that minimizes color usage by having no images and text that is formatted to be 8.5 inches wide.		
Normal Flow	1. Actor chooses to go to a Printer Friendly Display. 2. System displays the previous display the actor was viewing in the manor described in the description. 3. The actor prints the page		
Alternate Flow	None		
Frequency of Use	Once a week		
Exceptions	None		
Includes	None		
Special Requirements	None		
Assumptions	None		
Notes and Issues	None		
Priority	Low		

Use Case	UC-6	Use Case Name	Download File
Created By	Michael Quan	Last Modified By	Nat Welch
Date Created	1/31/09	Last Change	2/17/09
Actor	Student, Teacher		
Pre-conditions	Actor must be authenticated with the system.		
Post-conditions			
Description	TBD Nat Welch 2/19/09		
Normal Flow			
Alternate Flow			
Frequency of Use			
Exceptions			
Includes			
Special Requirements			
Assumptions			
Notes and Issues			
Priority	Low		

Use Case	UC-7	Use Case Name	Upload File
Created By	Michael Quan	**Last Modified By**	Nat Welch
Date Created	1/31/09	**Last Change**	2/17/09
Actor	Student, Teacher		
Pre-conditions	Actor must be authenticated with the system.		
Post-conditions			
Description	TBD Nat Welch 2/19/09		
Normal Flow			
Alternate Flow			
Frequency of Use			
Exceptions			
Includes			
Special Requirements			
Assumptions			
Notes and Issues			
Priority	Low		

Use Case	UC-8	Use Case Name	Reset Password
Created By	Nat Welch	Last Modified By	Nat Welch
Date Created	2/9/09	Last Change	2/17/09
Actor	Student, Teacher		
Pre-conditions			
Post-conditions			
Description	TBD Nat Welch 2/19/09		
Normal Flow			
Alternate Flow			
Frequency of Use			
Exceptions			
Includes			
Special Requirements			
Assumptions			
Notes and Issues			
Priority	Medium Low		

Use Case	UC-9	Use Case Name	View Metrics
Created By	Nat Welch	**Last Modified By**	Nat Welch
Date Created	2/9/09	**Last Change**	2/17/09
Actor	Teacher		
Pre-conditions			
Post-conditions			
Description	TBD Nat Welch 2/19/09		
Normal Flow			
Alternate Flow			
Frequency of Use			
Exceptions			
Includes			
Special Requirements			
Assumptions			
Notes and Issues			
Priority	Medium Low		

Use Case	UC-10	Use Case Name	Add a Course
Created By	Nat Welch	Last Modified By	Nat Welch
Date Created	1/27/09	Last Change	2/17/09
Actor	Teacher		
Pre-conditions	**Teacher** must be authenticated with the system		
Post-conditions	The **Course** is stored by the System.		
Description	The **Teacher** creates a **Course.**		
Normal Flow	1. **Teacher** enters **Course Title**. 2. **Teacher** enters **Course Section** and **Course Number.** 3. **Teacher** enters location of **Course.** 4. **Teacher** adds time of **Course.** 5. **Teacher** enters **Grading Rules** and **Course Curve**		
Alternate Flow	None		
Frequency of Use	Once a week		
Exceptions	None		
Includes	None		
Special Requirements	None		
Assumptions	None		
Notes and Issues	**Teacher Assistant** with the **ManageCourse Permission** can also perform this action. Teacher should not be required to enter **Grading Rules** and **Course Curve.** This seems excessive, but is only used when the **Teacher** does not want to use the import (UC-27).		
Priority	High		

Use Case	UC-11	Use Case Name	Remove Course
Created By	Nat Welch	**Last Modified By**	Nat Welch
Date Created	1/27/09	**Last Change**	2/17/09
Actor	Teacher		
Pre-conditions	**Teacher** must be authenticated with the system		
Post-conditions	The **Course** specified by **Teacher** is deleted.		
Description	The **Teacher** deletes a **Course.**		
Normal Flow	1. **Teacher** chooses Remove 2. **Teacher** selects a **Course** 3. The System prompts the **Teacher** to make sure they want to delete the selected course. 4. **Teacher** deletes selected **Course**		
Alternate Flow	None		
Frequency of Use	Very Rarely		
Exceptions	None		
Includes	None		
Special Requirements	None		
Assumptions	None		
Notes and Issues	**Teacher Assistant** with the **ManageCourse Permission** can also perform this action.		
Priority	Medium High		

Use Case	UC-12	Use Case Name	Edit Course
Created By	Nat Welch	**Last Modified By**	Katherine Blizard
Date Created	1/27/09	**Last Change**	2/11/09
Actor	Teacher		
Pre-conditions	**Teacher** must be authenticated with the system		
Post-conditions	The class specified by the **Teacher** has been modified to specifications made by the **Teacher**		
Description	The **Teacher** can add and remove any **Student** or **Teacher Assistant** created by Add User, and the **Teacher** can change the **name**, **Course number**, **Course Curve** and **section** of the **Course**.		
Normal Flow	1.The **Teacher** chooses one class to edit. 2.System presents the **Teacher** with the option to edit the name of the **class**, the **class number**, the **section** number, all **Class Assignment**s or to add or remove other users from the **class**. The system displays a list of **Student**s not enrolled in any class. 3.The **Teacher** changes one or more of the options displayed and confirms his choice. 4.The System stores the adjusted **Class** data.		
Alternate Flow	None.		
Frequency of Use	Once a week		
Exceptions	If the **Teacher** has not created any **Classes** to edit yet, the System throws an error and redirects the **Teacher** to the Add Class use case.		
Includes	Add Course, Remove Course, Adjust Course Curve		
Special Requirements	None		
Assumptions	None		
Notes and Issues	**Teacher Assistant** with the **ManageClass Permission** can also perform this action.		
Priority	Medium High		

Use Case	UC-13	Use Case Name	Add Users
Created By	Nat Welch	Last Modified By	Nat Welch
Date Created	1/27/09	Last Change	2/17/09

Actor	Teacher
Pre-conditions	**Teacher** must be authenticated with the system
Post-conditions	The new **User** is stored by the system, and the new **User** is emailed their automatically generated password.
Description	The **Teacher** adds a new **User** to the system.
Normal Flow	1. **Teacher** chooses to add a new **User** 2. **Teacher** inputs name and **username** of new **User.** 3. **Teacher** adds email address for user. 4. The **Teacher** specifies whether new user is a **Teacher Assistant** or **Student** 5. After **Teacher** is finished entering information, System emails User with randomly generated **password** and a message to change **password.**
Alternate Flow	None
Frequency of Use	Twice a quarter.
Exceptions	If **username** specified already exists or email is already in use, System displays an error and **Teacher** must correct the error to continue.
Includes	None
Special Requirements	None
Assumptions	Someone has provided **Student** information to the **Teacher.**
Notes and Issues	None
Priority	High

Use Case	UC-14	Use Case Name	Remove User
Created By	Viktor Gerdin	**Last Modified By**	Nat Welch
Date Created	2/09/09	**Last Change**	2/10/09
Actor	**Teacher**		
Description	The **Teacher** can remove an **Account** from the system. The system will notify the **Account** holder about the termination of the **Account**.		
Pre-conditions	The Actor must be authenticated by the system.		
Post-conditions	Any *other* **Account** must be unaffected by the removal of an **Account.**		
Normal Flow	5.The Actor selects a **Account** for removal 6. The system prompts for conformation to remove **Account** 7.The Actor verifies the request to remove **Account** 8.The system removes **Account** data from storage 9.The system notifies **Account** holder of termination of **Account**.		
Alternate Flow	At step 5 of Normal Flow: 5a. The Actor selects to cancels the request to remove **Account** 6a. The system returns to step 1 *without* removing the **Account**		
Frequency of Use	Once a quarter		
Exceptions	If **Account** could not be removed, the system displays an error.		
Includes	None		
Special Requirements	If Actor removes its own **Account** the system must immediately deny any further access to the Actor.		
Assumptions	None		
Notes and Issues	**Teacher Assistant** with the **ManageUser Permission** can also perform this action.		
Priority	High		

Use Case	UC-15	Use Case Name	Edit User
Created By	Viktor Gerdin	**Last Modified By**	Nat Welch
Date Created	2/09/09	**Last Change**	2/10/09
Actor	Teacher		
Description	The **Teacher** can edit an **Account** from the system. The system will notify the **Account** holder about any changed made.		
Pre-conditions	The Actor must be authenticated by the system.		
Post-conditions	Any *other* **Account** must be unaffected by the editing of an **Account.** **Password** must comply with security requirement SE-4. (See Section 5.3 in SRS)		
Normal Flow	1.The Actor selects a **Account** for editing **2.** The system displays the selected **Account** 3.The Actor selects what **Account** data to edit 4.The Actor edits selected **Account** data 5.The Actor selects to store any changes 6.The system stores updated **Account** data 7.The system notifies **Account** holder of any changed data.		
Alternate Flow	At step 5 of Normal Flow: 5a. The Actor selects to cancels the edit 6a. The system returns to step 1 *without* altering any **Account** At step 6 of Normal Flow: If **Password** does not comply with SE-4 (see Section 5.3 in SRS) 6b. The system displays an error message. 7b. The system returns to step 4 *without* altering any **Account** At step 6 of Normal Flow: If **EmalAddress** is not a valid address: 6c. The system displays an error message. 7c. The system returns to step 4 *without* altering any **Account**		
Frequency of Use	Once a quarter		

Exceptions	If **Account** changes could not be stored, the system displays an error.
Includes	None
Special Requirements	If **EmailAddress** is changed, both the old and new address are notified of the change.
Assumptions	None
Notes and Issues	**Teacher Assistant** with the **ManageUser Permission** can also perform this action. **Student** with the **ManageUser Permission** can change their own **Name**, **Password** and **EmailAddress**.
Priority	High

Use Case	UC-16	Use Case Name	Add Assignment
Created By	Nat Welch	Last Modified By	Nat Welch
Date Created	1/27/09	Last Change	2/9/09

Actor	Teacher
Pre-conditions	**Teacher** must be authenticated with the system
Post-conditions	The information is stored to the System.
Description	The **Teacher** adds a new **Assignment** to the system.
Normal Flow	1. **Teacher** inputs **Assignment Name.** 2. **Teacher** inputs **Assignment Due Date.** 3. **Teacher** inputs **Assignment Total.** 4. **Teacher** chooses **Assignment** type: Quiz, Test, Final, Participation, or Other.
Alternate Flow	None
Frequency of Use	Once a week
Exceptions	If **Assignment** name already exists, The system displays an error and the **Teacher** must correct the error to continue. If the **DueDate** or **assignment** type is missing, throw an error and the **Teacher** must correct the error to continue.
Includes	None
Special Requirements	Someone has provided **Student** information to the **Teacher.**
Assumptions	None
Notes and Issues	None
Priority	High

Use Case	UC-17	Use Case Name	Remove Assignment
Created By	Viktor Gerdin	Last Modified By	
Date Created	2/09/09	Last Change	
Actor	Teacher		
Description	The **Teacher** can remove an **Assignment** from the system. The system recalculates any **AssignmentGrade** dependent on removed **Assignment.**		
Pre-conditions	The Actor must be authenticated by the system.		
Post-conditions	Any *other* **Assignment** must be unaffected by the removal of an **Assignment.** Any calculated **AssignmentGrade** must be correct after removal of an **Assi**		
Normal Flow	1.The Actor selects an **Assignment** for removal 2.The System prompts for conformation to remove **Assignment** 3.The Actor verifies the request to remove **Assignment** 4.The system removes **Assignment** data from storage 5.The system displays a message of conformation.		
Alternate Flow	At step 3 of Normal Flow: 3a. The Actor cancels the request to remove **Assignment** 4a. The system returns to step 1 *without* altering any **Assignment**		
Frequency of Use	Once a week		
Exceptions	If **Assignment** could not be removed the system displays an error.		
Includes	None		
Special Requirements	The system will automatically (without request) update any stored data so that affected features (UC-2, UC-3, UC-4, UC-9, UC-23, UC-26) will work correctly.		
Assumptions	None		
Notes and Issues	**Teacher Assistant** with the **ManageAssignment Permission** can also perform this action.		
Priority	High		

Use Case	UC-18	Use Case Name	Edit Assignment
Created By	Viktor Gerdin	Last Modified By	
Date Created	2/09/09	Last Change	
Actor	**Teacher**		
Description	The **Teacher** can edit an **Assignment** in the system. The system recalculates any **AssignmentGrade** dependent on removed **Assignment.**		
Pre-conditions	The Actor must be authenticated by the system.		
Post-conditions	Any *other* **Assignment** must be unaffected by the editing of an **Assignment.** Any calculated **AssignmentGrade** must be correct after editing of an **Assignment**		
Normal Flow	1.The Actor selects an **Assignment** for editing 2. The system displays the selected **Assignment** 3.The Actor selects what **Assignment** data to edit 4.The Actor edits selected **Assignment** data 5.The Actor selects to store any changes 6.The system stores updated **Assignment** data		
Alternate Flow	At step 5 of Normal Flow: 5a. The Actor selects to cancels the edit 6a. The system returns to step 1 *without* altering any **Assignment** At step 6 of Normal Flow: 6a. If any stored data depends on the altered **Assignment** data the system updates any dependent data. See Special Requirements		
Frequency of Use	Once a week		
Exceptions	If **Assignment** changes could not be stored, the system displays an error.. If Actor enters invalid data for **Assignment** the system displays a message telling the Actor what data is faulty and why.		
Includes	None		
Special Requirements	The system will automatically (without request) update any stored data so that affected features (UC-2, UC-3, UC-4, UC-9, UC-23, UC-26) will work correctly.		

Assumptions	None
Notes and Issues	**Teacher Assistant** with the **ManageAssignment Permission** can also perform this action.
Priority	High

Use Case	UC-19	Use Case Name	Add Announcements
Created By	Katherine Blizard	**Last Modified By**	Nat Welch
Date Created	1/31/09	**Last Change**	2/10/09
Actor	**Teacher**		
Description	The **Teacher** is able to add a new **Announcement** for one or more **Course**(s).		
Pre-conditions	The Actor must be authenticated by the system.		
Post-conditions	The new **Announcement** is stored within the system		
Normal Flow	1. The **Teacher** enters a title for the new **Announcement**. 2. The **Teacher** enters the body of text for the **Announcement.** 3. The **Teacher** chooses one or more **Course(s)** that this **Announcement** is for. 4. The System adds the current date and time to the **Announcement** .		
Alternate Flow	None		
Frequency of Use	Several times a week		
Exceptions	None		
Includes	None		
Special Requirements	None		
Assumptions	None		
Notes and Issues	None		
Priority	Medium High		

Use Case	UC-20	Use Case Name	Remove Announcement
Created By	Viktor Gerdin	**Last Modified By**	Nat Welch
Date Created	2/09/09	**Last Change**	2/10/09
Actor	**Teacher**		
Description	The **Teacher** can remove an **Announcement** from the system. Any other **Announcement** must be unaffected by the removal of an **Announcement.**		
Pre-conditions	The Actor must be authenticated by the system.		
Post-conditions	Any *other* **Announcement** must be unaffected by the removal of an **Announcement.**		
Normal Flow	1.The Actor selects an **Announcement** for removal 2. The System prompts for conformation to remove **Announcement** 3.The Actor verifies the request to remove **Announcement** 4.The system removes **Announcement** data from storage		
Alternate Flow	At step 3 of Normal Flow: 3a. The Actor cancels the request to remove **Announcement** 4a. The system returns to step 1 *without* altering any **Announcement**		
Frequency of Use	Once a week		
Exceptions	If **Announcement** could not be removed the system displays an error.		
Includes	None		
Special Requirements	None		
Assumptions	None		
Notes and Issues	**Teacher Assistants** with the **ManageAnnouncement Permission** can also perform this action.		
Priority	High		

Use Case	UC-21	Use Case Name	Edit Announcement
Created By	Viktor Gerdin	Last Modified By	Nat Welch
Date Created	2/09/09	Last Change	2/10/09
Actor	Teacher		
Description	The **Teacher** can edit an **Announcement** in the system.		
Pre-conditions	The Actor must be authenticated by the system.		
Post-conditions	Any *other* **Announcement** must be unaffected by the editing of an **Announcement.** The system will update **AnnouncementDate** when storing changes		
Normal Flow	1.The Actor selects an **Announcement** for editing 2. The system displays the selected **Announcement** 3.The Actor selects what **Announcement** data to edit 4.The Actor edits **Announcement** data 5.The Actor selects to store any changes 6.The system stores updated **Announcement** data 7.The system displays the edited **Announcement**		
Alternate Flow	At step 5 of Normal Flow: 5a. The Actor selects to cancel the edit 6a. The system returns to step 1 *without* altering any **Announcement**		
Frequency of Use	Once a week		
Exceptions	If **Announcement** could not be stored, the system displays an error.		
Includes	None		
Special Requirements	None		
Assumptions	None		
Notes and Issues	**Teacher Assistants** with the **ManageAnnouncement Permission** can also perform this action.		
Priority	High		

Use Case	UC-22	Use Case Name	Send Email
Created By	Katherine Blizard	**Last Modified By**	Nat Welch
Date Created	1/31/09	**Last Change**	2/10/09
Actor	**Teacher**		
Description	Actor can send an **Email** out to a student by student user name or email address or to the entire **Course** or **Course(s)**.		
Pre-conditions	The Actor must be authenticated by the system.		
Post-conditions	Applicable students receive email from the Teacher.		
Normal Flow	1. **Teacher** selects a **Course(s)**. Then **Teacher** proceeds to fill out the title and body of the **email** as desired. 2. If a **file** name of a **file** to be uploaded is present, the user uploads the **file** to the system. 3. The system sends the **email** to the specified **Course**.		
Alternate Flow	None		
Frequency of Use	Once a day		
Exceptions	An error occurs if the **Teacher** enters nothing, an invalid **username**, an invalid **Course name** or invalid **email address** in the address line and the email is not sent. If the **Teacher** enters nothing for the **email title,** an error is displayed. If the **Teacher** sends an **email** with no body, a dialog box informing the **Teacher** is displayed.		
Includes	None		
Special Requirements	None		
Assumptions	None		
Notes and Issues	**Teacher Assistants** with the **ManageAnnouncement Permission** can also perform this action.		
Priority	Medium Low		

Use Case	UC-23	Use Case Name	Grade Students
Created By	Nat Welch	**Last Modified By**	Nat Welch
Date Created	2/1/08	**Last Change**	2/10/09
Actor	**Teacher**		
Description	The **Teacher** will choose a **Course** to grade and will then be given a list of students and assignments		
Pre-conditions	**Teacher** must be authenticated with the system and have created a **Course** with assignments in it.		
Post-conditions	The information is stored to the System.		
Normal Flow	1. **Teacher** chooses a **Course** to grade. 2. **Teacher** chooses an **Assignment** to grade. 3. **Teacher** chooses a **student** to grade. 4. **Teacher** enters an **Assignment Score** for this **student'**s **assignment.**		
Alternate Flow	None		
Frequency of Use	Several times a week		
Exceptions	If preconditions are not met, the system throws an error.		
Includes	None		
Special Requirements	None		
Assumptions	All **Assignment Grades** are set to zero before an **Assignment Grade** is entered.		
Notes and Issues	None		
Priority	High		

Use Case	UC-24	Use Case Name	View Roster
Created By	Nat Welch	**Last Modified By**	Nat Welch
Date Created	2/1/08	**Last Change**	2/10/09
Actor	**Teacher**		
Description	The **Teacher** selects a **Course** and will receive a roster of the **Course.**		
Pre-conditions	**Teacher** must be authenticated with the system and have created a **Course** with assignments in it.		
Post-conditions	None		
Normal Flow	1. **Teacher** chooses a **Course** to view. 2. The System displays a table of **students** enrolled in the **Course.** Each **Student**'s **username**, name and email address is displayed.		
Alternate Flow	None		
Frequency of Use	Once a week		
Exceptions	If there are no **student**s enrolled in the **Course**, the System displays an error.		
Includes	None		
Special Requirements	None		
Assumptions	None		
Notes and Issues	None		
Priority	Medium High		

Use Case	UC-25	Use Case Name	Take Attendance
Created By	Nat Welch	**Last Modified By**	Nat Welch
Date Created	2/1/08	**Last Change**	2/10/09
Actor	**Teacher**		
Description	The **Teacher** marks **student**s either absent or present.		
Pre-conditions	**Teacher** must be authenticated with the system.		
Post-conditions	System stores the new data.		
Normal Flow	1. The **Teacher** selects a **Course.** 2. The system applies the current date. 3. For each **student**, the **Teacher** marks absent or present.		
Alternate Flow	2a. The **Teacher** selects a different date.		
Frequency of Use	Once a week		
Exceptions	If there are no students in the **Course**, the system throws an error.		
Includes	View Roster		
Special Requirements	None		
Assumptions	None		
Notes and Issues	Not currently implemented in Data Dictionary.		
Priority	Low		

Use Case	UC-26	Use Case Name	Curve Adjustment
Created By	Nat Welch	Last Modified By	Nat Welch
Date Created	1/27/08	Last Change	2/10/09
Actor	Teacher		
Description	Our tool will have the ability to adjust the grading curve for each **Course**. Five text boxes with plus and minus buttons will let the Teacher increment or decrement the curve. Above graphs (described in output) will display the new curve. The new curve will not go into effect until the teacher clicks the apply button at the bottom of the page.		
Pre-conditions	Teacher must be authenticated with the system. The teacher either types in, or uses buttons to select a desired curve. Each box will be related to a certain grade, e.g. A, B, C, D and F.		
Post-conditions	The information is saved to the database upon clicking apply and the refreshed page shows the new changes. Above the curve modifier boxes there will be two pie charts. The first pie chart will show the distribution of the grade by percent. So if the curve is set to have the A/B border at 90%, the B/C border at 80%, the C/D border at 70%, and the D/F border be at 50% there would be a pie chart that has 50% for F, 20% for D, and 10% for each A, B and C. Each section will be a different color. The second pie chart will show how many students are getting each grade. The colors in these should be the same so the Teacher can easily understand differentiate between grades on both charts. Like all charts in our system, the charts should be properly labeled. The charts should also be the same size.		
Normal Flow	TBD: Nat Welch 2/16/09		
Alternate Flow			
Frequency of Use	Once a week		
Exceptions	If there are no students in the **Course**, the system throws an error.		
Includes	View Roster		
Special Requirements	None		
Assumptions	None		
Notes and Issues	To Be Rewritten by Nat. Needs to be completed by Friday		
Priority	Medium		

Use Case	UC-27	Use Case Name	Import Data
Created By	Katherine Blizard	Last Modified By	Nat Welch
Date Created	1/31/08	Last Change	2/10/09
Actor	Teacher		
Description	The **Teacher** imports a file containing data from **rosters**, **students**, or **assignments**.		
Pre-conditions	The **Teacher** is authenticated with the system. The Teacher has created or received a data file containing at minimum a **Student's** **username** and the **Course** they belong to. If the **Teacher** is uploading an **Assignment Grade** data file, the **assignment** number and type (Test, Quiz, Final, Homework, Participation, or Other) is required.		
Post-conditions	The System has updated all **Course(s)** and **students** to match the result in the spreadsheet.		
Normal Flow	1. **Teacher** is prompted if he will import a **Course** (a list of **Students**), a **Student** (a list of their **assignment grades**), or an **Assignment** (a list of **students** and their grades they received on that **assignment**). 2. The Teacher uploads the file to the system, which creates a new **Course** if the Teacher selected **Roster** or otherwise searches for each **student** and updates their **Assignment Grades** accordingly. 3. The system recalculates all **Student** Total Grades. **4.** A completed message is given to the **Teacher**		
Alternate Flow	None		
Frequency of Use	About twice per week.		
Exceptions	If the **Assignment Grade** to be updated has a grade already in place, the System displays an error.		
Includes	None		
Special Requirements	None		
Assumptions	The system assumes the teacher has labeled spreadsheet columns appropriately and put the correct number in the correct column.		
Notes and Issues	None		
Priority	Medium Low		

Use Case	UC-28	Use Case Name	Export Data
Created By	Kalvin Vu	**Last Modified By**	Nat Welch
Date Created	1/31/08	**Last Change**	2/10/09
Actor	**Teacher**		
Description	The system will be able to export each **Course** and all data items within the **Course** to a file on the **Teacher**'s computer.		
Pre-conditions	The desired **Course** must already exist.		
Post-conditions	The **Teacher** receives a file containing **Course** information.		
Normal Flow	1. The **Teacher** selects a **Course** he wishes to export. 2. The System compiles the **Course** information into a **file**. 3. The System presents this **file** for download to the **Teacher**.		
Alternate Flow	None		
Frequency of Use	Once a quarter.		
Exceptions	If exporting fails then an error message is displayed. Exporting can fail due to an inconsistency with the storage or a network error.		
Includes	None		
Special Requirements	The **Teacher** must have access to program that can display the downloaded file. Only **Teacher** has access to this use case.		
Assumptions	The system assumes the teacher has labeled spreadsheet columns appropriately and put the correct number in the correct column.		
Notes and Issues	Look into password protecting or encrypting the exported file.		
Priority	Medium		