

		WebCT	Wolfware	WebAssign
Cost	Cost to User	Free	Free	instructor and student fees; contact webassign@ncsu.edu for specifics
	Assignments - Creation	Y - You can create assignments and upload any word processing files in a point and click web-based environment. You also have control over the assignment dates (date released to students, due date, etc.)	N - You can create an assignment with proprietary web design software. Must know how to use proprietary software such as Macromedia's Dreamweaver, Adobe's GoLive, Microsoft FrontPage, etc. or know how to hand code HTML.	Y - You can create assignments from a database of questions in a point and click web-based environment. You also have control over the assignment dates (date released to students, due date, last viewed date.)
Tools	Assignments - Submitting	Y - Secure assignment submission in a point and click web-based environment	Y - Secure assignment submission in a point and click web-based environment	Y - Secure assignment submission in a point and click web-based environment. You may allow students multiple submissions.
	Bulletin Board/Discussion Forum	Y - see "Discussion Form Comparison" for further information	Y - see "Discussion Form Comparison" for further information	N
	Calendar	Y - A blank calendar is generated by WebCT. You can add notes, assignment due dates, etc. to the calendar in a point and click web-based environment. You can add items for all of your students to see or for only you to see. Each student can add their own private information to the calendar, but only they can see their private entries.	N	N
	Chat Sessions	Y - There are four course e chat rooms and one general chat forum for the course (e.g. use for online office hours). There is also a general chat room for all courses, which is a room shared by everybody from all courses on the NCSU WebCT server. Conversations in the four course rooms are recorded. You are the only person in the course who can see the records.	N	N
	Email within the environment	Y	N	Y
	Glossary	Y - You can use the glossary to create a fully-searchable glossary for your course. It can contain images as well as text, so that illustrative glossary definitions are possible.	N	N
	Self Tests	Y - You can create multiple-choice quizzes that test your students' knowledge. When they answer a question they are told immediately whether the answer is correct or incorrect. No grades are assigned or recorded and the you cannot see the students' results.	N	Y - You can create self tests with no credit. The key can be delivered immediately.
	Quizzing	Y - You can create quizzes and release them to your students on a specific date/time. Grades are assigned. You can view basic statistical data on the student's scores	N	Y - You can create multiple-choice, true/false, multiselect, matching, fill-in-the blank, rank order, short and long answer, numerical, symbolic (formula), and file-up load quizzes that test your students' knowledge. When students submit their assignment, they can be told immediately which answers are correct or incorrect, except for written answers and file-up-load. Scores can be assigned and recorded. You can give students an extension to any deadline. You can post answer keys, give multiple submissions, weight questions using a variety of factors like the number of submissions and give timed quizzes.
	Search	Y - Search allows students to conduct a search for text within the course. It appears as a hyperlink on every page of your course. Searching is limited to course content and tools that you have added to your course.	N	N
	Site Map	Y - Generated by WebCT	N - You can create a site map with proprietary web design software. Must know how to use proprietary software such as Macromedia's Dreamweaver, Adobe's GoLive, Microsoft FrontPage, etc. or know how to hand code HTML.	N
	Whiteboard	Y - Whiteboard is a drawing tool that designers, students, and teaching assistants may use during an online discussion. This tool allows users to type text, draw objects, insert graphics, and make modifications — especially useful for drawing and viewing diagrams in real-time.	N	N
Communicating with Students	Email within the environment	Y - You can email your class or individual students in a point and click web-based environment	N - You can use any email package to email your class or individual students.	Y - You can email your class or individual students in a point and click web-based environment
	Send email to one section	Y - You can select the students that you wish to email. You can email all of the students or just some of the students in a point and click environment.	Y - You can use any email package to email your class section with one email address.	Y - You can select the students that you wish to email. You can email all of the students or just some of the students in a point and click environment.
	Send email to all of your sections	N - You have to email each section of your course separately	Y - You can use any email package to email all of your class sections with one email address.	N - You have to email each section of your course separately
	Send email to course support	Y - You can select the support staff (TAs, graders, etc.) that you wish to email. They are listed with all of your students for that course. You can email all of the support staff or just some of the support staff in a point and click environment.	Y - You can use any email package to email all of your class support (TAs, graders, etc.) with one email address.	Y - You can select the support staff (TAs, graders, etc.) that you wish to email. They are listed with all of your students for that course. You can email all of the support staff or just some of the support staff in a point and click environment.
	Chat Sessions	Y - There are four course e chat rooms and one general chat forum for the course (e.g. use for online office hours). There is also a general chat room for all courses, which is a room shared by everybody from all courses on the NCSU WebCT server. Conversations in the four course rooms are recorded. You are the only person in the course who can see the records.	N	N

	WebCT	Wolfware	WebAssign
Necessary Knowledge Base	FTP (File Transfer Protocol)	Beginning - All files are uploaded and downloaded in WebCT's point and click web-based environment.	Intermediate Knowledge - Must know how to use FTP software such as Dreamweaver's FTP, WS_FTP, or Cute FTP and understand which path to publish material.
	Design Control	Some Limitations - You can choose to use the pre-set WebCT design (icons and graphics) or you can choose to create your own design (icons and graphics). However, changing the overall "look and feel" of the site is limited.	Complete -- your website design is totally up to you. You can download and modify templates from the LTS website (http://lts.ncsu.edu/templates/) if you wish.
	HTML Knowledge	Basic - Must at least know how to convert a word processing document into an HTML page. Any knowledge above this level would be helpful, but is not necessary.	Intermediate - Must know how to use proprietary software such as Macromedia's Dreamweaver, Adobe's GoLive, Microsoft FrontPage, etc. or know how to hand code HTML in order to design the site.
	Graphics Knowledge	None to Intermediate to Advanced. <i>None</i> - You can choose to use the pre-set WebCT icons and graphics <i>Intermediate</i> - You can design and create your own graphics. You can use any proprietary graphics software (e.g. Macromedia's Fireworks, Adobe's Photoshop, etc.) to create graphics. <i>Advanced</i> - You can modify digital images for use in your course	Intermediate to Advanced. <i>Intermediate</i> - You will have to create any graphics that you use on the website. You can use any proprietary graphics software (e.g. Macromedia's Fireworks, Adobe's Photoshop, etc.) to create graphics. The Learning Technology Service offers a series of templates which you can download, modify, and use for your course. (http://lts.ncsu.edu/templates/) <i>Advanced</i> - Modify digital images for use in your course.
Course Management	Student Tracking	Y - You can view information about your students (e.g. how many times they have accessed the course website)	N
	Student Management	Y - Synchronizes with Registration and Records to create a class roster. Also have the option to contact the WebCT Administration to grant student access to students who are not enroll in your class through Registration and Records or people without Unity Ids (e.g. students finishing an incomplete status, colleagues).	Y - Synchronizes with Registration and Records to create a class roster.
	Grade Management	Y - You can view grades from quizzes and assignments given within WebCT. These grades are updated automatically. Also, you can download the grades into a spreadsheet (e.g. Excel), add additional grades, and upload them back to your WebCT course. You can do all of these actions in WebCT's point and click web-based environment.	N - You have to maintain grades manually in a spreadsheet (e.g. Excel). If you wish to pass your grades on the web, you would have to create a web page and ftp it.
Course Models	Early Development	Y - You have the ability to create course materials before the course is offered.	Y - You have the ability to create course materials before the course is offered.
	Registration and Records Model	Y - Synchronizes with Registration and Records to create a class roster, but it also allows for additional ID creation for off model users.	Y - Synchronizes with Registration and Records to create a class roster. Wolfware only manages typical NC State students/staff
	Off Model	Y - You can contact the WebCT Administration to grant student access to students who are not enroll in your class through Registration and Records or people without Unity Ids (e.g. students finishing an incomplete status, colleagues).	N - Only manages typical NC State students/staff
			Y - All files are uploaded and downloaded in WebAssign's point and click web-based environment.
			N
			Basic - To post announcements or write simple multiple choice, fill-in-the blank, or essay questions, no HTML is needed. To write questions for which numbers or text is randomized, a little knowledge of HTML and Perl is needed. Any knowledge above this level would be helpful, but is not necessary.
			Intermediate to Advanced. <i>Intermediate</i> - You will have to create any graphics that you use on the website. You can use any proprietary graphics software (e.g. Macromedia's Fireworks, Adobe's Photoshop, etc.) to create graphics. The Learning Technology Service offers a series of templates which you can download, modify, and use for your course. (http://lts.ncsu.edu/templates/) <i>Advanced</i> - Modify digital images for use in your course.
			Y - You have the option to view information about your students (e.g. whether they have downloaded assignments or not, how many times they have submitted their answers for grading, view each response to each question for each submission, see the exact time of each student's submission).
			Y - Synchronizes with Registration and Records to create a class roster.
			Y - You can view grades from assignments, quizzes and tests given within WebAssign. These grades are updated automatically. Also, you can download the grades into a spreadsheet (e.g. Excel), add additional grades, and upload them back to your WebAssign course. You can do all of these actions in WebAssign's point and click web-based environment.
			Y - You have the ability to create course materials before the course is offered.
			Y - Synchronizes with Registration and Records to create a class roster using Wolfware.
			N - WebAssign.ncsu.edu only manages typical NC State students/staff. WebAssign.net can be used for non NC State students/staff.