

Product Name		ATutor 1.5.4	eFront
Developer Name		Adaptive Technology Resource Centre University of Toronto	Epignosis LTD
Communication Tools			
Discussion Forum		<p>Students can enable or disable posts to be sent to their email.</p> <p>Students can subscribe to forums or specific forum threads to have message notifications sent to them by email.</p> <p>Students can access current forum posts from anywhere within a course using a Forums sidemenu block.</p> <p>Students can edit their forum posts for a specified period of time</p> <p>Forum access can be limited to group members or used by a whole class</p>	<p>Students can enable or disable posts to be sent to their email.</p>
Discussion Management		<p>Instructors can allow students to create discussion groups.</p> <p>Posts may be peer reviewed by other students.</p> <p>Discussions can be shared across courses, departments, or any institutional unit.</p> <p>Instructors can lock forums from posting and/or reading.</p> <p>Instructors can attach important forum content to the beginning of the thread list.</p> <p>Instructors can edit, move, and delete forum posts</p> <p>Instructors can assign forum management privileges to students.</p>	
File Exchange		<p>Students can submit assignments using drop boxes.</p> <p>Administrators can define disk space limitations for each course</p> <p>Course, Group, and Personal file folders</p> <p>Instructors and students can comment on files</p> <p>Text based files can be edited online</p> <p>Administrators can enable file versioning on a course by course basis</p>	<p>Students can submit assignments using drop boxes.</p> <p>Students can share the contents of their personal folders with other students.</p> <p>Administrators can define disk space limitations for each user.</p>

<p>Internal Email</p>	<p>Students can use the built-in email functionality to email individuals or groups. Students can use a searchable address book. Instructors can email the entire class at once at a single address or alias. Students can elect to forward their mail to an external address.</p> <p>Instructors can limit mailing to students, assistants, alumni, groups, all enrolled, or all waiting for enrolment.</p> <p>All users can export an archive of sent and received email messages</p>	<p>Students can use the built-in email functionality to email individuals or groups. Students can use a searchable address book. Instructors can email the entire class at once at a single address or alias. Students can elect to forward their mail to an external address.</p>
<p>Online Journal/Notes</p>		<p>Students can attach notes to any page. Students can combine their notes with the course content to create a printable study guide.</p>
<p>Real-time Chat</p>	<p>The chat tool supports a limited number of simultaneous rooms. The system creates archive logs for all chat rooms.</p> <p>Chat is accessible to assistive technology users</p> <p>Users can control message refresh rate</p> <p>Messages can be automatically or manually refreshed</p> <p>Messages can be displayed top to bottom, or bottom to top</p> <p>Userplane module provides audio/video chat</p>	<p>The chat tool supports unlimited simultaneous group discussions The system creates archive logs for all chat rooms.</p>
<p>Whiteboard</p>	<p>The whiteboard supports image and PowerPoint uploading. The software supports group web browsing. The software supports application desktop sharing. The software can archive a recording of whiteboard sessions for future viewing. The software supports two-way voice chat.</p> <p>Whiteboard is available using the Marratech module.</p> <p>Accessibility compliant whiteboard available (Acomm) includes peer descriptions for students with disabilities</p>	<p>Through integration with DimDim</p>
<p>Productivity Tools</p>		
<p>Bookmarks</p>		<p>Students can bookmark any content material in a course.</p>
<p>Calendar/Progress Review</p>	<p>Instructors and students can post events in the online course calendar. Instructors can post announcements to a course announcement page.</p>	<p>Instructors and students can post events in the online course calendar. Instructors can post announcements to a course announcement page.</p>

	<p>Students can view their grades on completed assignments, total points possible, course grade, and compare their grades against the class performance.</p> <p>Shared calendar available using the Ewiki module</p> <p>A multilayer calendar available using the WebCalendar module</p>	<p>Students have a personal home page that lists all courses in which the student is enrolled, new email and all course and system-wide events from their personal calendar.</p> <p>Students can view their grades on completed assignments, total points possible, course grade, and compare their grades against the class performance.</p>
Searching Within Course	<p>Students can search all course content.</p> <p>Students can search across all courses they are enrolled in with a single search.</p> <p>Students can search courses they are not enrolled in.</p> <p>Search result can display course summaries.</p> <p>Search results can display the text surrounding the searched terms.</p> <p>Search terms within the results are highlighted.</p>	<p>Students can search all course content.</p> <p>Students can search all discussion threads.</p>
Work Offline/Synchronize	<p>Students can compile and download the content for an entire course into a format that can be printed or stored locally.</p> <p>Students can download course content and discussion group content with a PDA.</p> <p>If enabled, students can download content packages for course units, or an entire course, that can be viewed offline.</p>	<p>Students can compile and download the content for an entire course into a format that can be printed or stored locally.</p> <p>Content can be exported or printed</p>
Orientation/Help	<p>Pages of the help system are linked to their respective tools for easy access.</p> <p>Tutorials, and other documentation, are available through the product providers website for students, instructors and administrators.</p> <p>Help materials are searchable.</p> <p>Student can contribute to help materials.</p> <p>Instructors can contribute to help materials.</p>	<p>The system includes online tutorials for students that help students learn how to use the system.</p>
Student Involvement Tools		
Groupwork	<p>Instructors can assign students to groups.</p> <p>The system can randomly create groups of a certain size or a set number of groups.</p> <p>Each group can have its own discussion forum.</p> <p>Each group can be given group-specific assignments or activities.</p>	<p>Instructors can assign students to groups.</p>

	<p>Groups may be private or instructors can monitor groups.</p> <p>Groups can be configured with their own forums, file sharing, blogs, and link database.</p> <p>Tests/quizzes can be assigned to groups.</p>	
Community Networking	<p>Students from different courses can interact in system-wide chat rooms or discussion forums.</p> <p>Using the Userplane chat module, or the Elluminate module, students can interact using voice and/or video, within a course, across courses, or through a central user community.</p> <p>Students see a list of other students currently online, and communicate with them.</p> <p>Central community forums include: support, bug reports, feature requests, translators, and general discussions.</p> <p>System source code available through public SVN repository</p>	<p>Students from different courses can interact in system-wide chat rooms or discussion forums.</p> <p>The administrator can create global discussion forums that are available to all system users.</p>
Student Portfolios		<p>Students can create a personal home page in each course.</p> <p>Students can use their personal home page to selectively display their course work.</p> <p>Students can arrange the components on each lesson's first page through drag-and-drop</p>
Administration Tools		
Authentication	<p>The system can authenticate against an external LDAP server.</p> <p>Instructors can give guests access to their courses.</p> <p>A master list can be created to limit registration on the system to authorized users only.</p>	<p>The system can authenticate against an external LDAP server.</p> <p>Administrators can set up fail-through authentication against a secondary source (e.g. the system's own database) in the event that the primary source (e.g. LDAP server) fails.</p> <p>The system can support multiple organizational units and virtual hosts within a server configuration.</p>
Course Authorization	<p>Instructors can give guests access to their courses.</p> <p>A master list can be created to limit registration on the system to authorized users only.</p>	<p>The system supports restricting access based on roles and roles can also be customized by the service provider.</p> <p>Administrators can create an unlimited number of custom organizational units and roles with specific access privileges to course content and tools.</p> <p>Instructors or students may be assigned different roles in different courses.</p>

	<p>13. Course Authentication</p> <p>Administrators can assign individual administrative tool privileges to create secondary system administrators to manage specific system tasks.</p> <p>Instructors can assign individual tool use privileges to students to create assistants for any number of course management tasks.</p> <p>Mutiple instructors can be create for each course, with privileges to use any number of the available tools.</p> <p>Courses can be public (no login required)</p> <p>Courses can be protected (public but login is required)</p> <p>Courses can be private(login and approved enrolment required)</p>	
Registration Integration	<p>Instructors can add students to their courses manually or allow students to self-register. Administrators can batch add students to the system using a delimited text file. The software supports data interchange with student information systems through an event-driven API.</p>	<p>Instructors can add students to their courses manually or allow students to self-register. Administrators can batch add students to the system using a delimited text file. The software supports data interchange with student information systems through an event-driven API.</p>
Hosted Services	<p>The product provider offers a hosted solution.</p> <p>Hosting and support services from Commercial Affiliates.</p> <p>Product providers hosted service include:</p> <p>nightly system backups</p> <p>uninterupted power supply</p> <p>RAID Disk backup</p> <p>Private domains</p> <p>T3 Internet Connection</p> <p>More than 30 service providers are available to choose from worldwide</p>	<p>The product provider offers a hosted solution.</p> <p>Hosting and support services from Commercial Affiliates.</p> <p>Offers several hosting plans</p>
Course Delivery Tools		
Test Types	<p>Multiple choice</p> <p>Multiple answer</p> <p>Matching</p> <p>Ordering</p> <p>Fill-in the blank</p> <p>Short answer</p>	<p>Multiple choice</p> <p>Multiple answer</p> <p>Matching</p> <p>Fill-in the blank</p> <p>Short answer</p> <p>Survey questions</p>

	<p>Survey questions</p> <p>Essay Questions can contain other media elements (images, videos, audio)</p>	<p>Questions can contain other media elements (images, videos, audio)</p>
Automated Testing Management	<p>The system can randomize the questions and answers. Instructors can create self-assessments. Instructors can permit multiple attempts. The students are allowed to review past attempts of a quiz. Instructors can specify whether correct results are shown as feedback</p> <p>The system supports proctored tests.</p> <p>System can choose a limited number of questions from a larger pool.</p> <p>System can make partial test results available for questions that can be automarked (True/False, Multiple Choice, Multiple Answer)</p> <p>Test results can be hidden until all students' tests have been received.</p> <p>Test results can be released as soon as a student has completed a test.</p> <p>Custom likert scales can be created for survey questions.</p>	<p>The system can randomize the questions and answers. Instructors can create self-assessments. Instructors can set a time limit on a test. Instructors can permit multiple attempts.</p> <p>The system supports a MathML editor for the inclusion of mathematical formulas in both questions and answers. Instructors can specify whether correct results are shown as feedback</p>
Automated Testing Support	<p>Instructors can create personal test banks. The system provides test analysis data.</p> <p>Instructors can export test question in QTI 2.1 format.</p>	<p>Instructors can create personal test banks. The system provides test analysis data.</p>
Online Marking Tools	<p>Instructors can choose to evaluate student responses anonymously.</p> <p>Closed question types can be marked automatically and results made available immediately.</p> <p>Test results can be immediately release to students, or delayed and released all at once.</p> <p>Students can review their marks.</p> <p>Students can review test/question submissions.</p> <p>Instructors can export marks in CSV format.</p> <p>Instructors can assign partial marks to partially correct answers.</p>	

	Instructors can change marks on automarked answers.	
Online Gradebook	<p>Instructors can export the scores in the gradebook to an external spreadsheet.</p> <p>Test grades are integrated with the Test & Survey Manager</p>	<p>Instructors can add details to the gradebook in custom columns.</p> <p>Instructors can export the scores in the gradebook to an external spreadsheet.</p> <p>Instructors can create a course grading scale that can employ either percents, letter grades, or pass/fail metrics.</p>
Course Management	<p>Instructors can selectively release assignments, assessments, and announcements based on specific start and stop dates.</p> <p>Instructors can release materials based on a single criteria (date, grade, etc.) or instructors can use Boolean expressions to identify multiple selective release criteria.</p> <p>Instructors can personalize access to specific course materials based on group membership.</p>	<p>Instructors can selectively release assignments, assessments, and announcements based on specific start and stop dates.</p> <p>Instructors can set up specific course content that is released on a specific date and must be completed by students before they continue with the course.</p> <p>Instructors can personalize access to specific course materials based on previous course activity.</p> <p>Instructors can personalize access to specific course materials based on student performance.</p>
Student Tracking	<p>Instructors can get reports showing the time and date and frequency students as an aggregated group accessed course content.</p> <p>Instructors can review the navigation record of each student.</p> <p>Students can access their own tracking information.</p>	<p>Instructors can track the frequency and duration of student access to individual course components.</p> <p>Instructors can get reports showing the time and date and frequency students as an aggregated group accessed course content.</p> <p>Usage statistics can be aggregated across courses or across the institution.</p>
Content Development Tools		
Accessibility Compliance	<p>The product provider self-reports that the software complies with Section 508 of the US Rehabilitation Act.</p> <p>The product provider self-reports that the software complies with the WAI WCAG 1.0 Level A guidelines.</p> <p>The product provider self-reports that the software complies with the WAI WCAG 1.0 AA guidelines.</p> <p>Accessibility is a primary focus of the product provider.</p> <p>System includes WAI ATAG conformant authoring tool for creating accessible content.</p> <p>System checks accessibility of content against published accessibility standards.</p> <p>Systems supports BITV (Germany) and Stanca (Italy) accessibility guidelines.</p> <p>ATutor Accessibility Features</p>	

	http://atutor.ca/atutor/docs/atutor_access.php	
Content Sharing/Reuse	<p>Instructors can share content with other instructors and students through a central learning objects repository.</p> <p>The repository can be system-wide or for individual organizational units.</p> <p>The repository supports IEEE LOM and metadata application profiles such as, Dublin Core, Cancore, and custom profiles.</p> <p>Repository functionality is available using the TLE, TILE, and MERLOT modules.</p> <p>System imports and exports IMS and SCORM conformant content packages.</p> <p>The Inclusive Learning Exchange(TILE) http://www.inclusivelearning.ca</p>	<p>Instructors can share content with other instructors and students through a central learning objects repository.</p> <p>File manager that allows user to upload and share files with others</p>
Course Templates	<p>The software provides support for template-based course creation.</p> <p>The system allows administrators to use an existing course or a pre-defined template as a basis for a new course.</p>	<p>The system allows administrators to use an existing course or a pre-defined template as a basis for a new course.</p> <p>Content can be copied between courses. A course can be used as a template for future courses.</p>
Customized Look and Feel	<p>The system provides default course look and feel templates.</p> <p>Institutions can create their own look and feel templates across the entire system, including their own institutional logos, headers, and footers.</p> <p>The system can support multiple institutions, departments, schools or other organizational units on a single installation where each unit can apply its own look and feel templates as well as institutional images, headers and footers.</p> <p>Instructors can change and reorder navigation icons</p> <p>Instructors can change and reorder navigation tabs.</p> <p>Instructors can change and reorder sidemenu blocks.</p>	<p>Instructors can change the order and name of menu items for a course.</p> <p>Institutions can create their own look and feel templates across the entire system, including their own institutional logos, headers, and footers.</p> <p>The interface is template driven. Each user can rearrange the boxes on his own interface. Professors can activate/deactivate certain features.</p>
Instructional Design Tools	<p>Instructors can organize learning objects, course tools, and content into learning sequences that are reusable.</p> <p>Instructors can create linear learning sequences organized hierarchically by course, lesson, and topic.</p>	<p>Instructors can organize learning objects, course tools, and content into learning sequences that are reusable.</p> <p>Instructors can create linear learning sequences organized hierarchically by course, lesson, and topic.</p>

	Instructors can reuse courses as templates for future lessons.	Instructors can reuse courses as templates for future lessons.
Instructional Standards Compliance	IMS Content Packaging 1.1.3 IMS Content Packaging 1.1.4 SCORM 1.2 System supports both importing and exporting of IMS and SCORM content packages System support exporting with IMS QTI 2.1	IMS Content Packaging 1.1.3 SCORM 1.2
Hardware/Software		
Client Browser Required	System functions with any browser. System functions on mobile technologies System complies with XHTML 1.0 specification	IE 6+, FF 2+, Safari, Opera
Database Requirements	The system supports MySQL. The application requires only one database and can coexist with tables from other applications.	The system supports MySQL. The application requires only one database and can coexist with tables from other applications.
UNIX Server	A Unix version is available.	A Unix version is available.
Windows Server	A Windows version is available.	A Windows version is available.
Company Details/Licensing		
Company Profile	Adaptive Technology Resource Centre University of Toronto Not-for-profit Primary focus accessibility of information technology	
Costs / Licensing	Free/GPL	An enterprise version exists.
Open Source	The software is distributed under one of the OSI-approved licenses.	The software is distributed under one of the OSI-approved licenses.
Optional Extras	Developer & module documentation User contributed handbook notes Fully internationalized (30+ languages) Custom language editor. Theme manager Mac version of the software is available. Addon Functionality Available as Modules: Course fee payments CMAP concept mapping Photo Gallery Marratech live audio/video/whiteboard conference Elluminate Live audio/video conference UserPlane audio/video chat ATalker text-to-speech LifeType Blog WebCalendar CCNet course management Epresence webcasting phpMyAdmin database management Ewiki (ErfurtWiki) Test results analysis SCORM 1.2 runtime environment	The system integrates a modules system that can be used to extend it according to end-user needs

Reading/resource list
Course/group Inks
Custom RSS menu blocks

CMS Integration Modules:

Drupal
Joomla
Mambo
PHPNuke