Student Identity Verification Options for Online Courses

Current Test Security Available

Respondus Lockdown Browser (LDB)

LDB protects the integrity of a test by locking down the student's computer allowing nothing to be done except completing the exam (no print, save/capture, web-browse, or software).

> Download? Yes.
> Hardware? No.
> Security questions/tasks? No.

http://www.respondus.com/products/lockdown-browser/

Respondus Monitor (Currently Piloting)

Monitor works in conjunction with LDB to use a student's webcam to record the video/audio during exam completion. A specific startup sequence requires a student photo with ID card, an environment check, and acceptance of academic integrity policy.

> Download? Yes. (Same as LDB)
> Hardware? Yes, webcam.
> Security questions/tasks? Yes.

http://www.respondus.com/products/monitor/

Tegrity Remote Proctoring

Tegrity works separately from LDB, but they can work in partnership. It records the video/audio during exam completion, but is not required to continue. The startup sequence requires a student photo and acceptance of the course testing policy.

> Download? Yes.
> Hardware? Yes, webcam.
> Security questions/tasks? Yes.

http://www.tegrity.com/products/remote-proctoring

Testing Center/Proctor Requirement

While the use of a testing center for assessments in online courses seems like a logical choice, it does not benefit the population of online students we serve to assess in this manner as many opt for online education because it accommodates a non-traditional work schedule.

Test Security Options (not @ UCA)

Acxiom IdentifyX

Asks students a list of questions based on public data that Acxiom already has on them. (i.e. How many bedrooms were in your apartment on Sesame Street?)

> Download? No.
> Hardware? No.
> Security questions/tasks? Yes

http://www.acxiom.com.au/products_and_services/risk_mitigation/Acxiom-Identify-X/Pages/Acxiom-Identify-X.aspx

Bio-Sig ID (Biometric Signature ID)

BioSig-ID™ utilizes unique patented software to capture a user's biometric footprint using just a mouse. The startup sequence asks for email address, type of input device being used (mouse, touch screen, pad), then the user must draw the password for that computer and click to type a second password.

> Download? No.
> Hardware? No.
> Security questions/tasks? Yes.

http://www.biosig-id.com/index.php/products/biosig-id/take-a-test-drive

Current Plagiarism Prevention Available

SafeAssign (SA)
(SA) is a plagiarism prevention service that checks student papers against the Internet, ProQuest ABI/Inform database, institutional doc. archives (papers submitted at UCA), and SA's Global Reference Database (Bb students' voluntarily submitted work).

> Download? No.
> Hardware? No.
> Security questions/tasks? No.

Current General Identity Verification Available

Username/Password Authentication

Blackboard Collaborate (Collab.)
Instructors using the synchronous learning platform Bb Collaborate have another level of verification available. Collab. allows students to talk with voice and stream live video. As students ask questions or contribute to class, (with video turned on) Collab. will recognize their speech and the video screen will transfer to their webcam view. Doing video/audio roll call along with participation could add another level of connectedness between each student's name and face.

> Download? No.
> Hardware? Yes, webcam.
> Security questions/tasks? No.

https://www.blackboard.com/platforms/collaborate/overview.aspx

Continuous Assessment & Rigor
Generally speaking, faculty members who are doing continuous evaluation of students through a course span get to know a student's level of work. This is invariably a component of security because an intuitive faculty member will recognize when something just doesn't seem quite right. A faculty member building a course with rigor will also offset the security concerns. Students can pay online services to take their course for them. The cost is based on the work load, thus a well-developed online course would be cost prohibitive.

Blackboard Text Editor – Webcam Option
Instructors could require some discussions, assignments, test answers, etc. be done using the webcam option in the Bb text editor. This would again give the opportunity to see a student's face.

Plagiarism Prevention Options (not @ UCA)

Turnitin
Turnitin is a plagiarism prevention service that checks student papers against a database containing 24+ billion web pages, 300+ million student papers and millions of articles (library dbs, textbooks, digital ref. collections, subscription pubs, homework helper sites, books).

> Download? No.
> Hardware? No.
> Security questions/tasks? No.

General Identity Verification Opt. (not @ UCA)

Digital Proctor
Authenticates based on a multifactor approach:
- ✓ Something the user *knows*: login/password (same as usual)
- ✓ Something the user *has*: a particular browser environment, location, schedule, software environment
- ✓ Something the user *is*: unique typing patterns and established behavioral biometrics when interacting with the environment (checks for consistency)

> Download? No.
> Hardware? No.
> Security questions/tasks? No.

http://www.digitalproctor.com/

(?) Integration of Bear Card with Bb Learn & Collaborate
Shon Killion in Bear Card is checking with Blackboard on the possibility of this option. It is doubtful this integration is available.

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