

Inventory of tools

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This is **not** intended to be an exhaustive list of learning technologies. It is intended as a list from which we can draw use cases in our discussions of maturity in the learning ecosystem.

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LMS

Things to look for:

1. Integration with SIS via LIS.
2. Real time integration (class roster and grades)
3. Number of tool integrations
4. Tool integration using the LTI standard
5. Integration with IAM
6. Usage statistics: number of courses, frequency and extent of student usage, depth of coverage)

Leading technology providers

1. Blackboard
2. Canvas (Instructure)
3. Desire2learn
4. eCollege
5. JoomlaLMS
6. Moodle
7. Sakai

Clickers

Things to look for:

- LMS integration
- Analytics
- Capabilities
- Communications technology: wireless, RFID, Internet

Leading technologies

1. [iClicker](#)
2. [iResond](#)
3. Various web based clicker apps for Android and iPhone. See for example: <https://play.google.com/store/apps/details?id=com.appficient.iclicker&hl=en>

Classroom QA

These are tools that allow back-channel chat during the course of a class. This allows comments, feedback and questions.

1. [Piazza](#)
2. [PulsePress](#)
3. Twitter

Early warning systems

These are designed to identify students at risk. They range from simple case management systems like Symplicity Advocate to more sophisticated systems based on analytics like Purdue's Signals. In an ideal learning ecosystem the early warning system is connected to:

- The learning plan
- On-line advising
- Analytics

Some leading providers:

1. [Purdue Signals](#)

2. [Desire2Learn Student Success System](#)
3. [Simplicity Advocate](#)

Evaluation and assessment

iPeer
iRubric
[Calibrated Peer Review](#)

Video platforms

[Kaltura](#)
[Youtube](#)
[Vimeo](#)

Math and engineering tools

This section includes computer algebra systems (CAS), numerical computing environments and simulation systems. The questions here are:

1. Has the institution standardized on tools?
2. Are there site licenses?
3. Is there a help desk?
4. Is there training?

When there is a student edition of the product, the link below points to the student edition:

1. [Matlab](#)
2. [Matlab simulink](#)
3. [Mathematica](#)
4. [Maple](#)
5. [MapleSim](#)

Plagiarism prevention

Leading technologies

1. [Turnitin](#)
2. [Safe assign](#)

Statistics tools/packages

Questions: does the University have a site license? Is there a support centre for the product? Is there any standardization around products?

1. [SAS](#)
2. [SPSS](#)
3. [BMDP](#)
4. [r project](#) is an open source statistical package. It is integrated with Webwork.
5. [NVivo](#) Supports qualitative analysis and organization of data