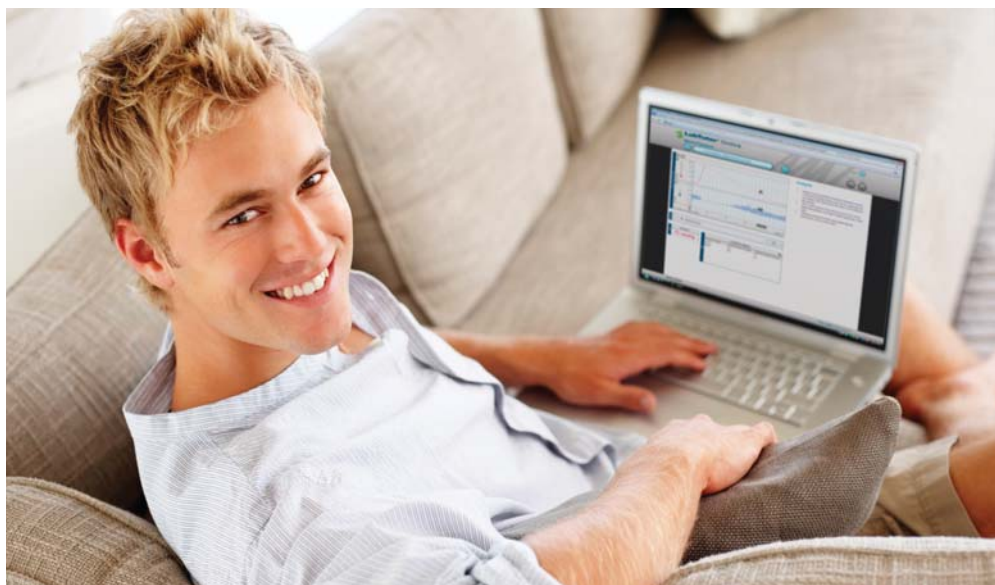


# Introducing LabTutor® 4 Suite

## with Server and Online components

### Better learning. Remarkable savings.



LabTutor® Online allows pre-lab preparation, post-lab analysis, reporting and submission from anywhere, using the Internet and any popular browser. Educators can also login remotely to review completed experiments.

LabTutor 4 Teaching Suite with Server and Online components is an integrated solution for life science laboratory teaching that not only provides outstanding time and cost savings, but also delivers better learning outcomes.

#### Student-centred learning

LabTutor offers students over 80 self-contained experiments featuring over 450 exercises and real data acquisition using PowerLab systems. LabTutor guides students through experiment protocols and analysis, and tests their understanding of the scientific principles behind each experiment. The interactive nature, easy structure and comprehensive content captures students' interest and maintains their attention to enhance the learning process.

#### Increased lab productivity and savings

LabTutor makes laboratory classrooms more efficient. Laboratory preparation, set up time and supervision requirements are minimized, and there is no need for printed manuals. Additionally, the major advantage of the optional LabTutor Online licenses is that students can do pre-lab preparation, post-lab reporting and revision outside of the laboratory. This frees up the laboratory classroom, and means your institution can use the same systems with more students across more courses.

#### Single-point course and content administration

LabTutor Server allows easy management of any number of courses and students from a central networked computer. You can import student lists, assign any combination of experiments to a specific list or course, and update any experiments on computers in multiple lab locations with a single action.

### Features & Benefits

- Ready-to-use experiments with real-time data acquisition and an easy-to-use interface
- Creation and management of multiple courses from one easy-to-use server interface
- Option to complete interactive analysis and reporting in or out of the classroom
- Ability to run a paperless laboratory with minimal preparation time
- Installation and updating of experiments on every classroom computer from one centralized location
- Customization of experiment content with the supplied LabAuthor application
- Free access to the ever-growing library of LabTutor experiments

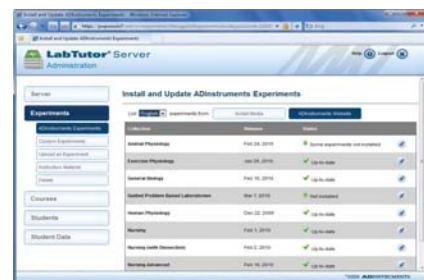


Engage your students, minimize supervision, save on resources.

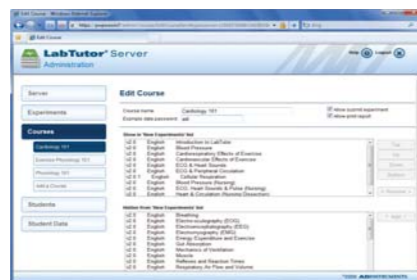
## What's new in LabTutor 4?

### ■ Centralized student and course management with LabTutor Server

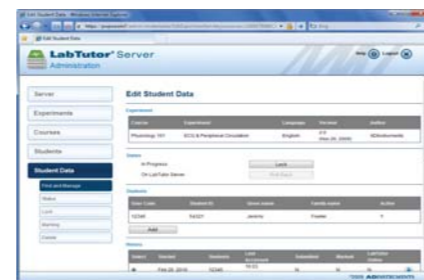
LabTutor Server facilitates straightforward and centralized course administration. You can setup and manage multiple courses, install and update experiments on classroom computers, import and edit student enrolments, appoint colleagues as course administrators and instructors, and view your students' LabTutor activity and submitted data – all without a single phone call to the IT department.



**Experiments** - Download new and updated experiments from the ADInstruments website, or upload your own custom experiments.



**Courses** - Select experiments for each course, control how students submit their work and if they can access example data.



**Students & Student Data** - Import student lists, track activity, access recorded data and completed reports.

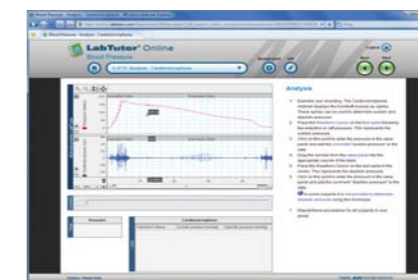
## What's new in LabTutor 4?

### ■ Remote access to experiments with LabTutor Online (Optional)

LabTutor Online creates new possibilities for structuring and coordinating any life science laboratory education programme. Laboratories can be freed-up with students now being able to analyze, complete and submit LabTutor experiments outside the lab. In addition, LabTutor Online can be used in distance learning - simply provide sample data for students to analyze and report.



**Pre-Lab** - Ask students to read through the experiment's background theory and protocols so they arrive at the lab ready to learn.



**Post-Lab** - Assign analysis and reporting tasks as homework, and free up laboratory time for more experiments, students and courses.



**Revision and Marking** - View completed work online and allow students to access completed experiments throughout the semester.

## Innovative LabTutor 4 Teaching Suite

### LabAuthor (Now included with LabTutor)

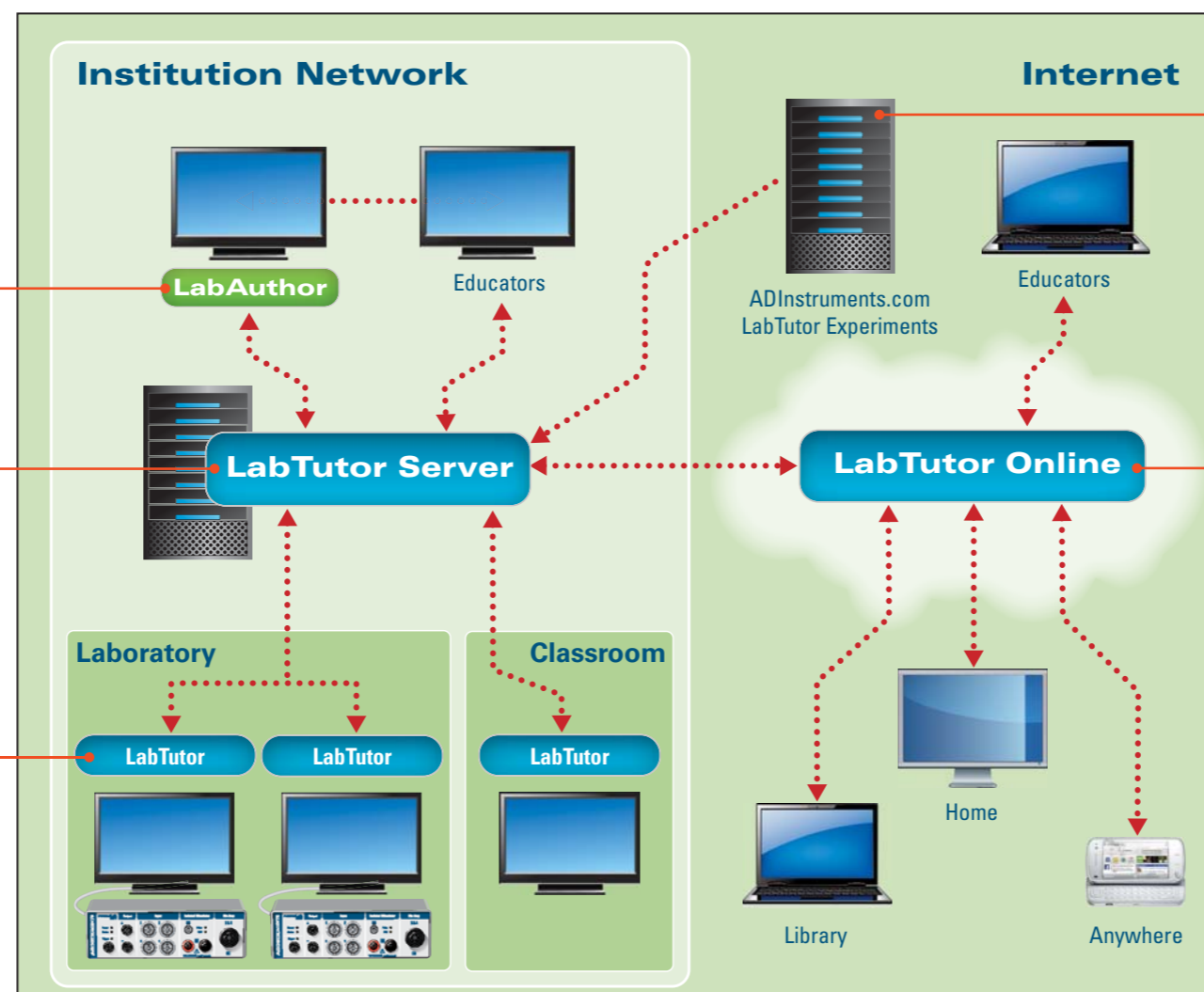
Easy-to-use software allows you to create and customize LabTutor experiment content to suit your students' abilities, your laboratory classroom's facilities and your curriculum's learning requirements.

### LabTutor Server (New)

A centralized administrative interface for the LabTutor Suite allows you to easily manage multiple courses and student information. From the one computer, you can easily download, install and update experiments from the ADInstruments Software Database, or experiments customized using LabAuthor. No more running from computer to computer to update experiments. Similarly, all student experiment data is stored on LabTutor Server for easy access. It's all in the one place!

### LabTutor 4 (New student interface)

The interactive learning experience allows students to record and analyze their data. Each self-contained experiment features background scientific information, step-by-step experimental protocols, data acquisition, data analysis and reporting.



### LabTutor Experiments (Free downloads)

As a LabTutor user you get free access to an extensive list of over 80 English language experiments with over 450 individual exercises. Popular LabTutor experiments are also available in French, Spanish, Italian, German, Portuguese, Japanese, Korean, Simplified Chinese and Traditional Chinese. Browse and download a complete, up-to-date list of LabTutor experiments at [www.adinstruments.com/education](http://www.adinstruments.com/education)

### LabTutor Online (New optional extra)

LabTutor Online provides a convenient, remote access to experiments that is beneficial for students and educators alike.

Students can spend less time in the laboratory, and instead login and access their experiments for pre-lab preparation and post-lab analysis from any Internet-connected computer.

Educators can also access student submitted experiments over the Internet, eliminating the need for printed reports.

LabTutor Online is compatible with any recent Flash-enabled web browser such as IE, Firefox or Safari (Windows and Mac).

# LabTutor Experiments

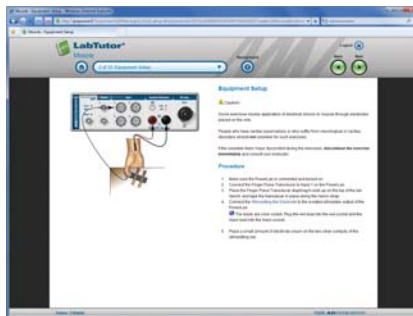
The consistent, step-by-step structure of every LabTutor experiment enables student groups to work through complete laboratory sessions with minimal supervision and no demonstrations. This results in better learning and better laboratory efficiencies.

## INTRODUCTION



Introduction pages provide clear learning objectives with additional scientific information provided in a Background page.

## SETUP



Step-by-step instructions with diagrams assist students to set up for their experiments and include hints and troubleshooting tips.

## DATA ACQUISITION



Data recording pages include preset acquisition parameters, clear instructions and links to additional information.

## GRAPHING



Students can select and paste parameters from their data into associated tables. Graphs are then automatically generated from these values.

## ANALYSIS



Data is transferred to analysis pages. Features required for analysis and hyperlinked help items are available to assist in analysis.

## REPORTING



Student data, analysis tables and graphs are automatically transferred to the Report section. Completed reports are saved to LabTutor Server.

## Ordering Information

**MLS400 LabTutor 4 Teaching Suite** includes:

- LabTutor Client
- LabTutor Server 4
- LabAuthor 4

**MLS405 LabTutor Online (optional extra):**

Student Access Licenses are available for purchase at [www.adinstruments.com/labtutoronline](http://www.adinstruments.com/labtutoronline)

LabTutor 4 Teaching Suite ships with these PowerLab Teaching Systems: PTB4151, 4152, 4153, 4154, 4262, 4263, 4264, 4265

LabTutor 4 Teaching Suite is a free upgrade for users of earlier versions of LabTutor.

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PowerLab systems and signal conditioners meet the European EMC directive. ADInstruments signal conditioners for human use are approved to the IEC60601-1 patient safety standard and meet the CSA C22.2 No. 601.1-M90 and UL Std No. 2601-1 safety of medical electrical equipment standards.



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