Acellus® – The Blended Learning Solution

The Technology Behind the Success

Why is Acellus so effective?

Intelligent Interaction (I²)

Acellus is a computer-based learning system that has changed online education as we know it today.

Acellus is the only online learning system that utilizes I² (Intelligent Interaction), which technology enables it to cater the educational content to the individual skill set of each student through customized personal instruction.

The end result is that students who were struggling and at risk of dropping out are gaining back the confidence needed to succeed in school, the workforce, and life.

Features of Acellus

Research-Based Data Driven Instruction – Acellus utilizes statistical data on how students learn to customize the learning process to the individual needs of each student.

Dynamic Course Updates – Student responses are analyzed and course enhancements are made, further improving the effectiveness of Acellus courses. Courses are updated daily.

Comprehensive Curriculum – Acellus courses cover all core content areas K-12, as well as courses for Advanced Placement (AP), Exceptional Education, Career & Technical Education, & Exam Preparation.

Multi-platform Support – Acellus supports iOS and Andriod devices and is compatible with Windows & Mac OS X.

Universally Internet Accessible – Acellus uses the newest standards in web applications and video streaming to deliver the ultimate learning experience – at school or at home. Students can login anywhere Internet is available, and Acellus picks up right where they left off.

Swiss Cheese Problems

In Acellus, special problems are created for the purpose of identifying where students have holes in their background knowledge that are making it hard for them to learn a particular concept. This special kind of problem in Acellus is call a "Swiss Cheese Problem" because it helps find holes in the students’ understanding.

Often a significant percentage of students will give the same wrong answer to a problem, indicating they have the same hole. A specialized video lesson is created for this specific subset of students. The next time that specific wrong answer is entered by a student, the customized video comes up – directly targeting the hole in their understanding.
What makes Acellus Courses so engaging?

Master Teachers
Acellus courses are taught by teachers that have expertise in conveying knowledge through video instruction. Through the combination of excellent instruction and immediate feedback, students are quickly able to start experiencing success within their coursework.

Five Star Courses
Acellus has launched a new initiative to create courses that are “five star” in the way that they help students grasp and master concepts. The lessons are filmed in a diversity of locations with only the best and most qualified instructors, keeping them fun and exciting so that both students and onsite teachers will rate the courses as 5 stars.

Specialized Help Videos
Special help videos are integrated into the course content for concepts students have difficulty with. These videos not only help the student master the content, but provide the student with “real world” scenarios, creating a meaningful context for obscure concepts.

Why is Acellus the most affordable learning system?
Acellus courses are developed by the International Academy of Science – a not-for-profit, 501c3 organization. The International Academy of Science is able to utilize master teachers to develop the Acellus courses through grants and other funding sources.

Acellus Deployment
How Schools are Using Acellus
Acellus is helping students achieve their academic goals in a wide rage of learning applications.

Uses for Acellus include:
- Mainstream Instruction
- Supplemental Instruction
- Blended Learning
- Remediation
- Credit Recovery
- Special Education
- Advanced Placement (AP) Classes
- SAT/ACT Preparation
- Response to Intervention (RTI)
- Summer & After School Programs
- GED & Adult Programs
- Career and Technical Training Programs
- ESL Programs
- Homebound Students

Its wide range of courses and its ability to customize learning to each student’s level and pace make Acellus ideal for challenged as well as gifted students.

“Acellus allows us to meet the needs of our special education population, talented and gifted students, those in need of credit recovery, or those who simply want a non-traditional approach to their education. We consider Acellus an important aspect of our educational program.”

Jerry Peacock – Director
Baker Technical Institute, OR
The Student Experience

The Acellus Student Interface

Students are able to access Acellus courses through the intuitive Acellus Student Interface. After students log into Acellus, they select a class from the list of classes they have been enrolled in. Acellus takes them right to their current position in the course and automatically marks their attendance.

Other features of the Acellus Student Interface allow students to readily view their progress, grade, attendance, daily homework assignments, and the school calendar. The built-in messaging system allows students to ask and receive answers to their questions.

How Acellus Works

Acellus delivers short video lessons taught by some of our nation’s greatest teachers. After each lesson, students receive practice problems to reinforce their understanding of the concepts. Acellus uses Deficiency Diagnostics (DD) to assess any areas of weakness in their knowledge and give more help and practice in these areas. By recognizing deficiencies and personalizing the learning process, Acellus is able to fill in holes in students’ understanding for a strong academic foundation.

Problems — After the short video lesson, problems are presented to assess understanding of the concept presented.

A Flexible Teaching Tool — Students may take Acellus Courses on a wide range of subjects and academic levels – from Preschool to Career and Technical Education Courses.
The Teacher Experience

Empowering Teachers

The key to an effective Acellus program is Super Teachers. Acellus provides teachers with the tools they need to spend more time doing what they do best...helping students learn.

The Acellus Teacher Portal

The Acellus Teacher Portal gives teachers the ability to track progress, identify problems, and provide real-time assistance. With Acellus data available securely over the Internet, teachers can view their reports, update classes, and monitor students – from the classroom or at home.

Acellus Gradebook

Keeping grades is easy with the Acellus Gradebook. As students work through their individual Acellus Courses, the Gradebook keeps track of student grades on every lesson and exam. Whether your school provides daily, weekly, or monthly grades – the Acellus Gradebook can handle it. Teachers can also input their own assignment grades and adjust the weighting curve.

On-Site Lessons

On-site lessons are resources provided to the classroom teacher for use in a blended learning environment. These are content-specific activities (group discussions, writing assignments, classroom activities, laboratory experiments, etc.) that can be used to enrich and enhance the learning experience.

Live Class Monitor

Teachers are able to monitor their students' progress in Acellus using the Live Class Monitor. The monitor shows the teacher which students are signed into Acellus and their current status in their coursework.

- **Active** – Student is successfully progressing through the course.
- **Inactive** – Student is signed in, but has not been actively working.
- **Extra Help Video** – Student is receiving additional instruction for a concept.
- **Wrong Limit** – Student is continuing to struggle with the concept after multiple levels of additional instruction.

By monitoring the current status of each student, teachers are able to help the students who need it most while the others can continue to progress through their courses.
Acellus courses cover all core areas, K-12. Standards-based course content is available in mathematics, social studies, science, language arts, reading, as well as electives and College Board Approved advanced placement courses. These courses can be deployed by schools as a stand-alone solution or as a supplement to enhance the teacher instruction. Acellus offers courses that cover a wide spectrum of needs, from exceptional learners to honors students.

**PRESCHOOL COURSES**
- Developing Preschool Skills 1
- Developing Preschool Skills 2

**ELEMENTARY SCHOOL COURSES**

**GRADE K**
- Grade K Math Plus
- Grade K Math
- Grade K Language Arts/Reading Plus
- Grade K Language Arts
- Grade K Reading
- Grade K Science
- Grade K Social Studies

**GRADE 1**
- Grade 1 Math Plus
- Grade 1 Math
- Grade 1 Language Arts/Reading Plus
- Grade 1 Language Arts
- Grade 1 Reading
- Grade 1 Science
- Grade 1 Social Studies

**GRADE 2**
- Grade 2 Math Plus
- Grade 2 Math
- Grade 2 Reading/Language Arts
- Grade 2 Science
- Grade 2 Social Studies

**GRADE 3**
- Grade 3 Math Plus
- Grade 3 Math
- Grade 3 Reading/Language Arts Plus
- Grade 3 Language Arts
- Grade 3 Reading
- Grade 3 Science
- Grade 3 Social Studies

**GRADE 4**
- Grade 4 Math Plus
- Grade 4 Math
- Grade 4 Language Arts/Reading Plus
- Grade 4 Language Arts/Reading
- Grade 4 Science
- Grade 4 Social Studies

**GRADE 5**
- Grade 5 Math Plus
- Grade 5 Math
- Grade 5 Language Arts/Reading Plus
- Grade 5 Language Arts/Reading
- Grade 5 Science
- Grade 5 Social Studies
- Missouri History

**English Language**
- Discover English – Elementary School Part 1
- Discover English – Elementary School Part 2
- Discover English – Elementary School Part 3

**Foreign Languages**
- Discover Spanish – Part 1
- Discover Spanish – Part 2
- Discover German
- Discover French
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New Acellus Courses are continually being developed. To obtain a current listing of available courses and course curriculum, or view a sample lesson, please visit [www.science.edu](http://www.science.edu).
Acellus Works
What Schools Are Saying About Acellus

“Since we’ve begun using Acellus our graduation rate has steadily increased. Three years ago our graduation rate was below 75%. This year our graduation rate is 90.1%. I can honestly say that a huge part of this success can be attributed to the Acellus program. Acellus has my highest endorsement.”

Otis Brown – Principal
Plainfield High School, NJ

Acellus has had a wonderful impact on our school. At risk students who would not graduate have felt the success of daily accomplishments as well as the experience of walking across the stage at graduation.

Venus Bishop – Instructor
Derby High School, KS

Acellus offers a more visually engaging curriculum than other programs we have found. For students who prefer learning through audio/visual methods, this format has proven to be very successful. Students who struggle with reading benefit from the flexibility of online education through the video-based instructional programs of Acellus. This type of online learning is rare in the K-12 digital content market.

Dr. Daniel Huld, Director
Baker Web Academy, OR

“I want to let you know how pleased I am with the Acellus program. This past summer we had 60 out of 74 students who had failed one or more classes, recover all of their credits through the wide range of Acellus courses available to them. The Acellus program truly helps students stay on track so they can graduate on time!”

Jim Christenson – Principal
Crosby-Ironton Schools, MN

“Acellus has become a powerful resource for the students at Telegraph. Acellus gives our educators the ability to meet the individual needs of each and every student. From At-Risk students to Gifted and Talented, Special Education and the regular classroom setting, we have witnessed positive growth in reading, mathematics, and science. Our students are more cognitively engaged, our behavior referrals have declined, and our students are becoming more and more confident in their academic abilities each day.”

Gabriel R. Cervantes, Principal
Telegraph Intermediate School, MO

Using Acellus in our K-12 Special Education program has provided our school district a powerful tool to support the diverse learning needs of our students. Acellus gives schools individualized core instruction adaptable at each student’s learning level while providing built-in specialized resources through differentiation, customized note taking, and progress monitoring. Our teachers use Acellus at varying levels of support ranging from full independent study courses to sheltered whole group, small group as well as targeted interventions. Acellus accompanied by specially designed support for each student is a recipe for success!

Kelly Kronbauer, Special Program Director
Lake Chelan School District, WA

Secured by GoldKey
Acellus utilizes GoldKey’s security technology to keep Acellus data secure, even when accessed over the Internet.

Educational Grants
Grants for the Acellus Learning System are available qualifying schools through the International Academy of Science. For more information visit: www.science.edu/now or call 816-229-3800.

International Academy of Science
phone: (816) 229-3800 | www.science.edu