


USQ



Leading Change to Enhance Teaching

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Leading Change to Enhance Teaching

1. About the Acadia Advantage
2. Innovation and the Faculty of Arts
3. Innovation and the Faculty of Science
4. Innovation and the Faculty of Professional Studies
5. Challenges and Opportunities

Acadia U. - Fast Facts

- 3200 Students
- Primarily Undergraduate
- Faculties of Arts, Science & Professional Studies
- 220 Faculty members
- Established circa 1840
- Nobel Laureate
- Inducted into Smithsonian Institute for AA

Acadia Advantage



Acadia's leading technology program becomes Your Acadia Advantage

With changes announced for September 2008, what's added, flexibility and lower cost.

Background

In 1998, Acadia presented the use of Acadia Advantage when a traditional academic computer lab (Academy) was created. The Acadia Advantage, as it was known, was not just providing students with networked computers as part of their education. The hardware and software training and support, extensive use of technology in classrooms as well as the use of networked learning environments are both what separates Acadia from other institutions.

In 2005, two years after the Acadia Advantage was first introduced, the program was reformed to use of Department and change an acronym. Over the next few years, the program was reformed to use of Department and change an acronym. Over the next few years, the program was reformed to use of Department and change an acronym. Over the next few years, the program was reformed to use of Department and change an acronym.

Technology Support - USC



About the USC

The User Support Centre is a central facility providing computing support for all campus users. Personnel are the USC members, who are available to help diagnose software and hardware problems, as well as answer many questions you may have.

USC staff will offer assistance regarding highly specialized or on-site assistance to a Software Coordinator.

Hardware problems, with all laptops, are handled at the User Support Centre for our workstation. Other campus hardware problems are referred to our hardware technicians who are dedicated to solving laptop hardware issues. There is also a service area with network drops and a wireless access point for laptops.

AITT



The Acadia Institute for Teaching and Technology (aitt)

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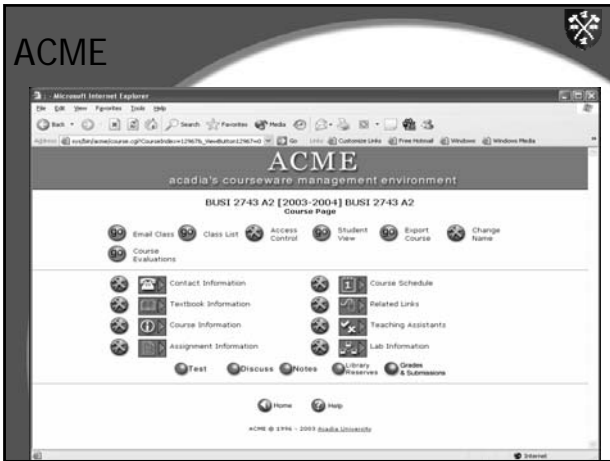
AITT Focus

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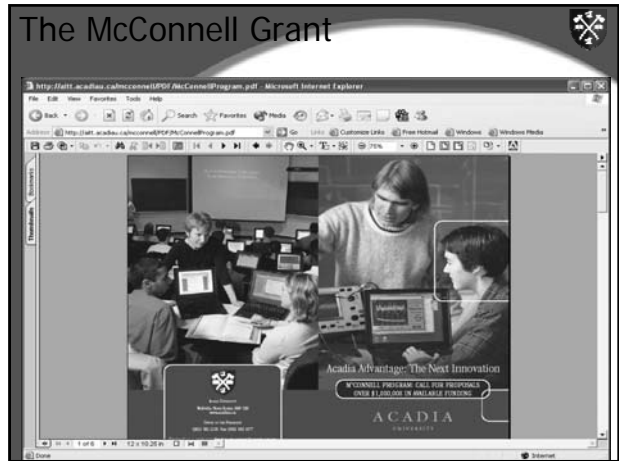
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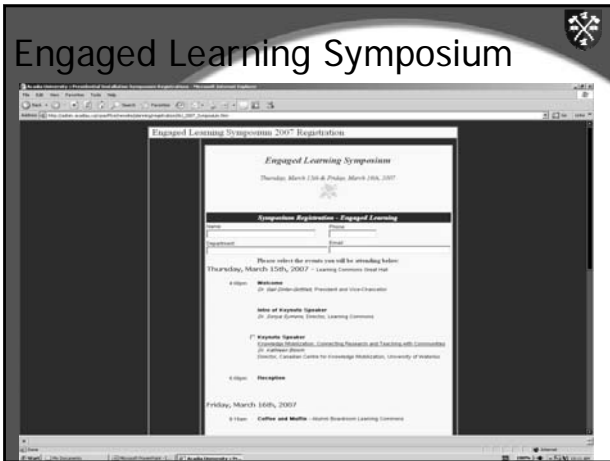
ACME



The McConnell Grant

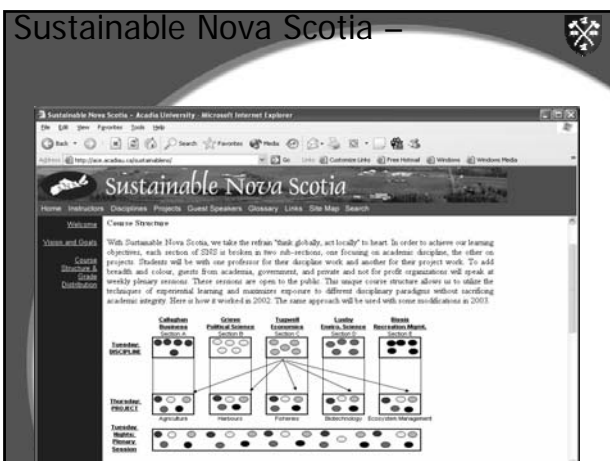


Engaged Learning Symposium

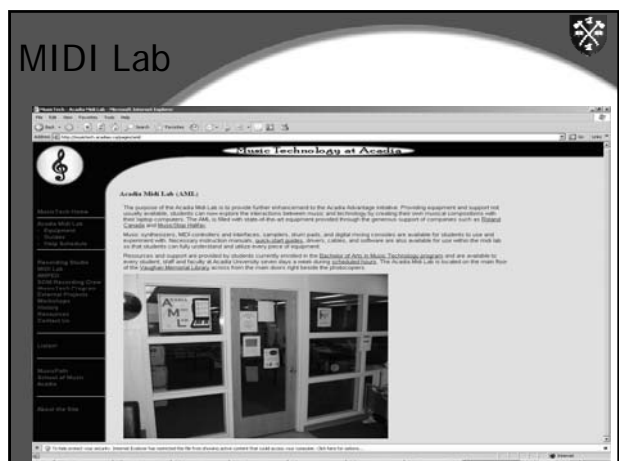


- Innovation and the Faculty of Arts

Sustainable Nova Scotia –



MIDI Lab



Music Path



Composers in Virtual Interactive Classrooms



Humanities Hyper Media Centre



- Innovation and the Faculty of Science

Physics Olympics



Lego League



Digital Herbarium

E.C. Smith Herbarium
Living Biodiversity Collection

WELCOME TO THE HERBARIUM

The E.C. Smith Digital Herbarium Project is organized to provide access via the World Wide Web to a wealth of information pertaining to the flora of Nova Scotia and the Acadia forest as well as the extensive resources catalogued and preserved in the E.C. Smith Herbarium located on the Acadia University Campus. This site will provide access to a database containing images, information such as family names, single and labels.

Abstract

Computer media this experience in physics research many years ago but have been somewhat slower to gain widespread use in the undergraduate physics curriculum. In this article, we report on our experience implementing a "studio" approach to teaching first year physics which makes extensive use of computer technology in the classroom. The studio approach emphasizes both the traditional classroom lecture and laboratory lab format. In no place are more, two-hour studio sessions which combine the lecture, tutorial, and laboratory in one unique setting. With the instructor writing more as a monitor or guide than a lecturer, the students are actively and directly involved in the learning process. Incorporating lab exercises and problems solving into the course establishes a powerful link between these activities and the course content. The computer is used for the acquisition and analysis of data which can be collected either from sensors or digitized video. In this article we describe the studio classroom, the software and hardware that are now being used, and the costs of implementation and our experience implementing the project. We also present our preliminary results of a term of teaching in this environment.

Virtual Interactive Dissection Tool

EXTERNAL ANATOMY

The surface of the sponge is covered in a layer of tubular epithelial cells. External view shows cells are separate used for support and openings called canals, which allow water to flow into the sponge. The internal water brings food and oxygen to the cells of the sponge. At the top of the sponge is the osculum, which allows the water particles to be taken with tubular epithelial cells and carbon dioxide from the water cells.

EXTERNAL VIEW

External Anatomy
Labels

Buttons

Home Back Forward Stop

All and stop buttons located in the external window view the 3D object of the model, read more.

Studio Physics

STUDIO PHYSICS AT ACADIA UNIVERSITY

by P. J. Williams, Cynn S. MacLachy, Philip J. Buckman, Duncan S. Bahson
Department of Physics, Acadia University, Wolfville, NS, B0P 1X0, Canada

Abstract

Computer media this experience in physics research many years ago but have been somewhat slower to gain widespread use in the undergraduate physics curriculum. In this article, we report on our experience implementing a "studio" approach to teaching first year physics which makes extensive use of computer technology in the classroom. The studio approach emphasizes both the traditional classroom lecture and laboratory lab format. In no place are more, two-hour studio sessions which combine the lecture, tutorial, and laboratory in one unique setting. With the instructor writing more as a monitor or guide than a lecturer, the students are actively and directly involved in the learning process. Incorporating lab exercises and problems solving into the course establishes a powerful link between these activities and the course content. The computer is used for the acquisition and analysis of data which can be collected either from sensors or digitized video. In this article we describe the studio classroom, the software and hardware that are now being used, and the costs of implementation and our experience implementing the project. We also present our preliminary results of a term of teaching in this environment.

Introduction

In March 1996, Acadia University introduced the Acadia Advantage, an initiative which would see all students at Acadia, by the academic year 2000, provided with laptop computers. The implications for teaching our computer-aided and video-supported study would be significant. The use of word processors, an extensive upgrading of the computer network and state-of-the-art digital audio/visual systems, but it would require a complete change in the way that we teach in the classroom. Beyond the obvious enhancement of access to information for each and every person on campus, there is the potential that the computer will

Science Cafe

ACADIA

Faculty of Pure and Applied Science

Science Cafe

The Science Cafe is a series of informal, open-ended discussions on a variety of topics. The Science Cafe is a series of informal, open-ended discussions on a variety of topics. The Science Cafe is a series of informal, open-ended discussions on a variety of topics.

Faculty of Pure and Applied Science

Science Cafe

Ecology of Worms

Gibsonlab

Introduction

Here at the Gibson lab, we are primarily interested in the distribution and general ecology of polychaete worms. Polychaetes, among the most diverse and complex of all animals, are found in nearly every habitat on Earth. They are found in the deepest ocean trenches, in the most extreme environments, and in the most diverse habitats. They are found in the most diverse habitats, in the most extreme environments, and in the most diverse habitats.

DNA Sequencing Service

ACADIA DNA SEQUENCING SERVICE

DNA Sequencing Facility

The DNA sequencing facility provides sequencing services for both academic users and the Acadia University Scientific community. We operate a Gene Station 9700 (ABI) sequencer, incorporating high-throughput, using Applied Biosystems BigDye 3.1 Terminator Chemistry and standard protocols. Samples have a fast turnaround time (usually 2-3 working days) especially when more than 20 sequencing reactions are submitted for each run. Data will be processed the same day and data is usually available by 1 PM the following day.

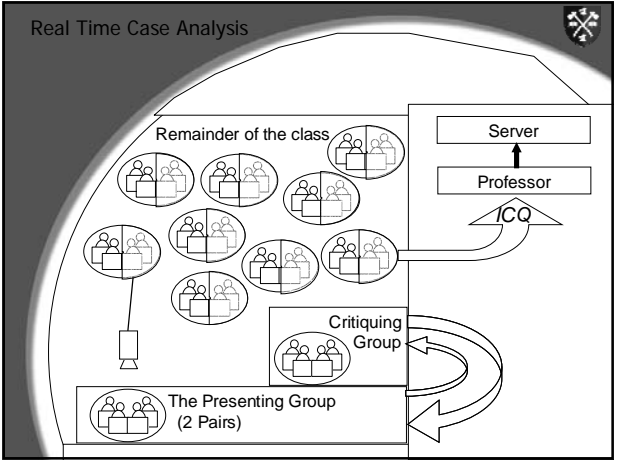
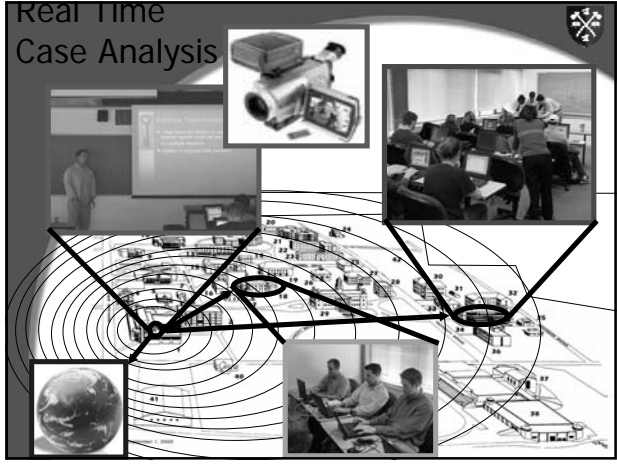
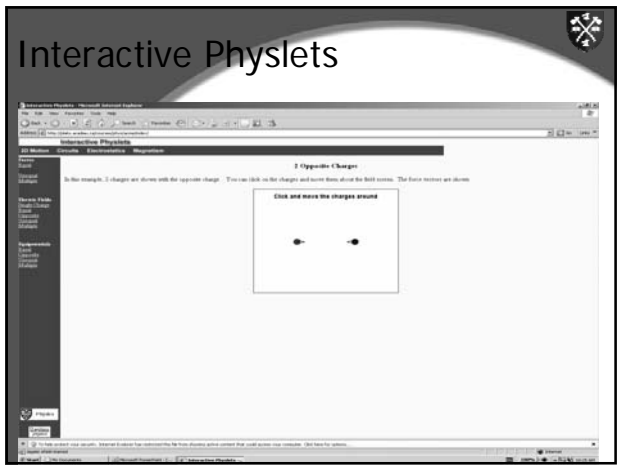
The cost of sequencing is \$10/sample for internal customers and \$15/sample for external customers. When sequencing just a few samples, we welcome our positive controls run on the same gel and more of divisions in contact with the customer are provided, as to whether the problem may have been with the sample or the sequencing reaction. If the problem is with the sequencing reaction, they will be provided free of charge. If the problem lies with the samples, we will advise customers of what could improve the reaction.

The facility is capable of sequencing:

- plasmids
- PCR products

Sample Requirements: These values apply for any template and at the following concentrations:

- 10 ng/ml of 375 pmol/L to 100 ng/ml
- 100 ng/ml of 375 pmol/L to 1000 ng/ml
- 1000 ng/ml of 375 pmol/L to 10000 ng/ml
- 10000 ng/ml of 375 pmol/L to 100000 ng/ml



RTCA – ICU

Acme

Model Building in Excel

Living Cases

Living Cases

Living Cases

Links

- Links is an interactive Excel workbook designed to help students learn the impact of transactions on financial statements.
- Links presents students with transactions and financial statements and requires them to enter the changes caused by the transaction.

Links

- Students can interact with the software in a number of ways and receive various levels of direction and feedback. They can:
 - View the complete answer
 - View only where they have errors
 - See the explanation to a particular error
 - Have the computer explain all errors, one at a time
 - Attempt a problem and then get feedback, or receive feedback after they enter every figure
 - View a diagram highlighting the main linkages between the statements.

Links

Cyclops

- Cyclops is an interactive Excel workbook designed to help students learn the accounting cycle.
- Among other tasks, Cyclops presents students with transactions and requires them to enter the transaction in general journal format.
- The program provides extensive feedback to students on errors committed.

Cyclops

Ref	Account Titles	Debit	Credit
1	Cash	3,100	
1	Sales		3,100
2			
3			
4			
5			
6			

ARTCC

Interview Video Database



Challenges

- Cost
- Sustainability
- Video
- Off Campus Access
- Career Implications

Opportunities

- Close to the heart
 - Our Children
- Commercial
- International collaboration

Teaching Strategy

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