

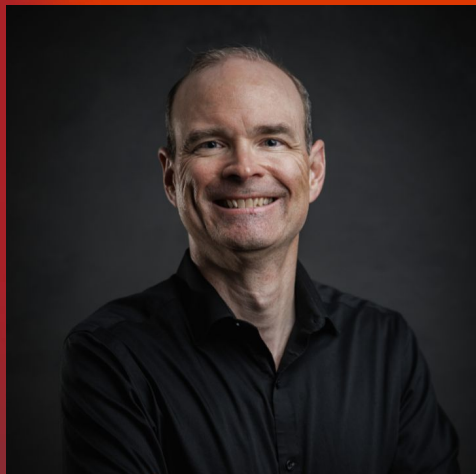
# From Hype to Impact: AI's Role in Learning



**ATOMIC JOLT**

InstructureCon**25**

SPOKANE, WASHINGTON ••• JULY 22ND - 24TH, 2025



Justin Ball  
Co-Founder & CTO  
[justin.ball@atomicjolt.com](mailto:justin.ball@atomicjolt.com)



Chris Johnson  
Regional Director  
[chris.johnson@atomicjolt.com](mailto:chris.johnson@atomicjolt.com)

InstructureCon25

SPOKANE, WASHINGTON ••• JULY 22ND - 24TH, 2025



# AI Is Already Here—And It's Changing Everything

## The Labor Market Is Sending a Clear Signal

- **Unemployment is rising for key tech majors:**
  - Computer Science: **6.1%**
  - Computer Engineering: **7.5%**
- **Overall Class of 2025 Unemployment: 5.8%**

# Preparing Students (and Ourselves) for an AI-First World

- What is our responsibility as educators?
- AI-first employees
- Evolution from knee-jerk response to AI of “We have to stop students from using AI.”
- From personalization to predictive analytics, AI’s classroom role is real



# LLMs—The New Interface for Learning

JB

I need some help studying for my American History course. The course is in Canvas. Can you put together a study plan to help me succeed?

I'd be happy to help you create a study plan for your American History course! To make this as useful as possible, let me first check what resources are available in your Canvas course.

A

courses\_list\_your\_courses

Great! I can see you have a couple of American History courses. Let me gather more details about the most relevant one to create your study plan. I'll look at the "American History - " course (ID 906) which appears to be module-based.

A

modules\_list\_modules

A

assignments\_list\_assignments\_assignments

Now let me check what's available in the content search to get a better sense of the course materials:

A

canvas\_search

Let me search more broadly to see the course content:

A

canvas\_search

Let me try to get information about your todo items and activity to understand what's currently due:

A

users\_list\_todo\_items

Based on what I can see from your Canvas courses, I notice you have multiple American History courses available. I'll create a comprehensive study plan that you can adapt to whichever specific American History course you're taking. Let me create a customized study plan for you:

American History Study Plan

Document

American History Study Plan

Document

I've created a comprehensive study plan tailored specifically for your American History course in Canvas! This plan includes:

Key Features:

Canvas-specific strategies

Flexible daily and weekly study schedules (45-60 minutes daily)

Content organization

Active learning techniques

Assessment preparation

Troubleshooting section

Emergency catch-up plan

Next Steps:

Review your specific Canvas course

Adapt the timeline

Set up your study space

Start with the daily routine

## American History Study Plan

### Overview

This comprehensive study plan is designed to help you succeed in your American History course by providing structured learning strategies, utilizing Canvas resources effectively, and establishing sustainable study habits.

### Getting Started - Course Orientation

#### Week 1: Course Setup & Organization

- Canvas Familiarization**
  - Review your course syllabus and assignment calendar
  - Explore all available modules and learning materials
  - Set up notifications for assignment due dates
  - Download the Canvas mobile app for on-the-go access
- Create Your Study Environment**
  - Designate a quiet, organized study space
  - Gather necessary supplies (notebooks, highlighters, computer)
  - Set up a filing system (digital or physical) for course materials

### Study Schedule Framework

#### Daily Study Routine (45-60 minutes)

- 15 minutes:** Review previous day's notes
- 25 minutes:** New content reading/module completion
- 10 minutes:** Create summary notes or flashcards
- 10 minutes:** Preview next day's material

#### Weekly Deep Study Sessions

- Sunday:** Week planning and assignment review (30 minutes)
- Wednesday:** Mid-week review and catch-up (45 minutes)
- Saturday:** Comprehensive review and test preparation (60-90 minutes)

### Content Mastery Strategies

#### Active Reading Techniques

- Pre-reading:** Scan headings, subheadings, and key terms
- During reading:** Take Cornell-style notes
- Post-reading:** Summarize main points in your own words
- Question formation:** Create potential test questions from content

#### Note-Taking System

- Digital notes:** Use Canvas discussions or external apps like Notion/OneNote
- Handwritten notes:** Cornell method for better retention
- Visual aids:** Create timelines, concept maps, and cause-effect diagrams
- Color coding:** Organize by themes (political, social, economic events)

#### Memory Techniques

- Chronological timeline:** Create master timeline with major events
- Mnemonic devices:** For remembering dates, names, and sequences

# Practical Guidance for Educators & Admins

- Start with pilot programs (e.g., AI-assisted feedback)
- Embrace radical change
- Prioritize AI literacy for staff/faculty
- Look for ways to incorporate AI experiences into your curriculum
- Don't be afraid to expect more from students who work along with AI
- Focus on equity, ethics, and responsible AI use
- Prepare for hybrid systems that blend LMS + AI platforms





Papillon Rouge Studio

7



# Potential for Solving the Bloom 2 Sigma Problem?

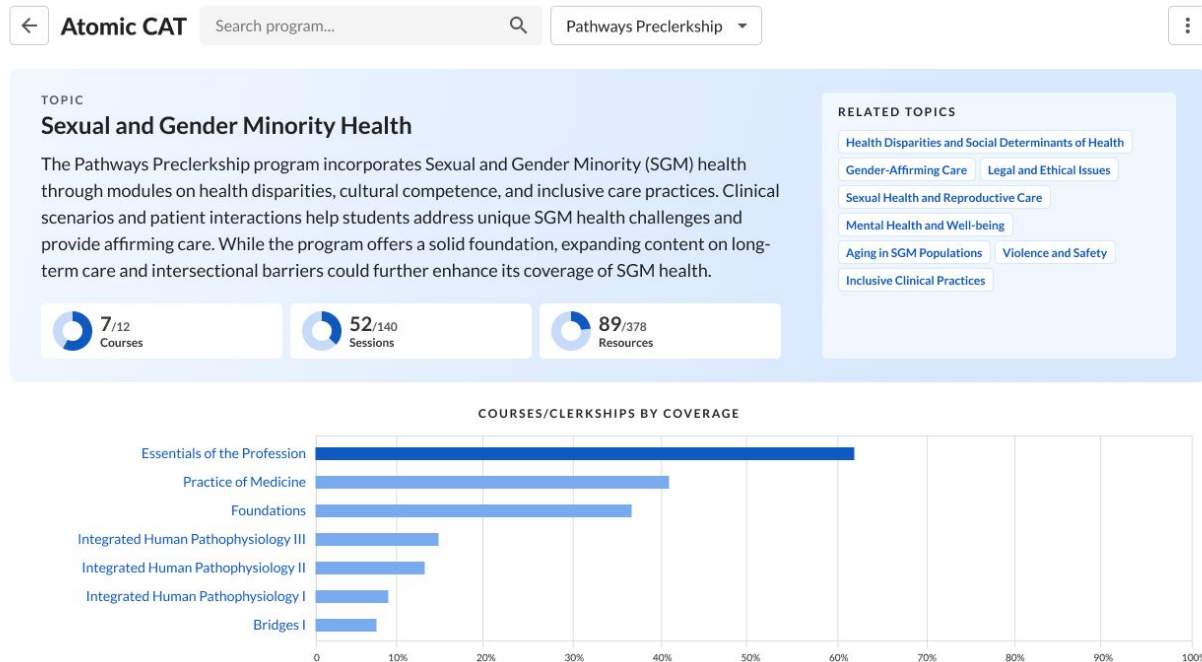
- 1-on-1 tutoring improves performance by two standard deviations
- LLMs + AI = scalable personalization
- Vision: more students get the support they need, when they need it

LLMs have infinite patience and attention and are always available.



# AI in Action Today

- Automating content alignment with learning objectives
- Early warning systems for struggling students
- Adaptive assessments and feedback loops





## Key Takeaways

- LLMs are transforming learning from the inside out
- The LMS as we know it is evolving — don't fight it, extend it
- AI won't replace educators — but it will reshape how they teach and support students

# Let's Talk:

What's one thing you hope AI can solve in your institution?

InstructureCon25

SPOKANE, WASHINGTON ••• JULY 22ND - 24TH, 2025

# Thank you!

## Swing by Booth #38 for a demo.

[justin.ball@atomicjolt.com](mailto:justin.ball@atomicjolt.com)  
[chris.johnson@atomicjolt.com](mailto:chris.johnson@atomicjolt.com)



InstructureCon25

SPOKANE, WASHINGTON ••• JULY 22ND - 24TH, 2025