MCP SERVER | NO CODE | CLOUD HOSTED

Blackboard Learn MCP for AI Agents

Manage course content, announcements, and academic records

Blackboard Learn MCP connects your AI client directly to your educational management system. It lets you handle core academic tasks like listing courses, tracking attendance records for meetings, creating announcements, and reviewing detailed grade changes—all via natural conversation.

A+ Quality Score 100/100

lms | e-learning | course-management | grading | attendance

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vinkius.com/mcp/blackboard-learn

SCAN TO VIEW

The connectivity layer between AI and the world's software.

Vinkius sits between AI and every application. All communication passes through Vinkius Cloud via the Model Context Protocol (MCP) — with governance, observability, and security at every layer.

Your AI Connections Run Through Vinkius Cloud

The world's largest managed MCP catalog

Vinkius is the connectivity layer where AI connects to the software your business already runs. We handle the hosting, the security, the credentials, the uptime — you get agents that actually do things.

We operate the world's largest managed MCP catalog. Major SaaS platforms, CRMs, databases, and cloud providers — running, monitored, production-ready. This MCP server is hosted and maintained by the Vinkius Cloud for AI Agents.

> *The agent doesn't manage credentials, doesn't manage uptime, doesn't manage security. Vinkius does.*
>
> — Architecture principle

Four Pillars of the Vinkius Runtime

01 — Security by design

Credentials stay encrypted at rest via AES-256. The AI agent never touches raw keys — they're injected into a sandboxed V8 isolate at runtime. Actions are logged, and connections have an emergency kill switch.

02 — Built on MCP Fusion

This MCP server was built with **MCP Fusion**, the open-source framework (Apache 2.0) that powers the entire Vinkius catalog. Schema-as-firewall strips undeclared fields, compiled PII redaction runs at zero overhead, and cryptographic lockfiles produce git-diffable audit trails.

03 — Deterministic observability

Eight immutable metrics per endpoint: request volume, p95 latency, error rate, active connections, cost attribution. A live payload feed logs every tool call with mutation detection.

04 — Autonomous operations

Servers are deployed, monitored, and patched autonomously. New capabilities and security patches ship weekly. Zero-downtime deployments ensure continuous availability across all managed MCP servers.

AES-256	Ed25519	24h TTL	V8 Isolate
Encryption at rest	PKI vault signatures	Ephemeral session keys	Sandboxed execution

One Token. Instant Access.

Every MCP server on Vinkius is accessed through a **Connection Token**. Tokens are generated in the cloud dashboard and produce a unique MCP endpoint URL. Paste this URL into any MCP-compatible client — no SDK required.

A single token can serve **multiple AI clients simultaneously**, or you can issue separate tokens per client for granular access control. Each token tracks its own request count, last activity timestamp, and can be individually enabled or revoked.

MCP ENDPOINT

```
https://edge.vinkius.com/{token}/mcp
```

Claude · Cursor · VS Code · Windsurf · Grok · Gemini

Security Is the Architecture

Security in Vinkius is not a feature — it's the foundation of the runtime. The gateway enforces multiple independent protection layers between AI agents and third-party APIs.

01 — Ed25519 PKI Vault

Every workspace has an Ed25519 Master Key. Session keys are generated ephemerally (24h TTL) and signed by the Master Key. Credentials never leave the vault boundary.

02 — V8 Isolate Sandboxing

Tool code runs inside isolated-vm V8 isolates with 64 MB memory caps and per-request timeouts. No filesystem access, no network access except through the SSRF-guarded fetch bridge.

03 — SSRF Guard

All outbound HTTP requests are DNS-resolved and validated before execution. Private IP ranges (10.x, 172.16-31.x, 192.168.x, AWS metadata 169.254.x) are blocked at the network layer.

04 — DLP & PII Redaction

A ResponseGuard pipeline intercepts every tool response. Configurable redaction patterns strip sensitive fields (emails, SSNs, card numbers) before data reaches the AI agent.

05 — Cryptographic Audit Trail

Every request is signed into a SHA-256 hash chain with Ed25519 signatures. Events form a tamper-proof, SIEM-exportable forensic record.

06 — Honeytoken Trap System

Phantom credentials are injected into isolated environments. If a honeytoken is used outside Vinkius infrastructure, the server is quarantined instantly.

Emergency Kill Switch

EU AI Act Art. 14(1) Compliant

The kill switch is an **emergency halt** mechanism — not a simple toggle. When triggered, it executes three actions atomically:

01 — Server deactivated

The MCP server is immediately taken offline across the entire cluster.

02 — All tokens revoked

Every connection token is invalidated. Total lockout — reconnection blocked until new tokens are issued.

03 — WebSocket connections killed

Active connections terminated via Redis pubsub broadcast. Propagates to every runtime node in the cluster.

Full Visibility. Zero Guesswork.

The Vinkius cloud dashboard includes a full MCP Governance suite — real-time analytics and security controls for production AI operations.

Control Plane

KPI dashboard with request volume, latency, success rate, token consumption, and AI-generated operational briefings.

Agent Activity

Which AI clients are connecting, how often, and what they're doing — real-time session tracking.

FinOps

Cost tracking per tool, payload compression savings, budget optimization signals, and consumption trends.

Tool Health

Slowest and most error-prone tools, with actionable root-cause insights and performance baselines.

Firewall & DLP

PII redaction activity, sensitive data protection counters, and security event timeline.

Incident Log

Error trends, failure rates, status-code breakdowns, and forensic audit trail access.

> Get started at **cloud.vinkius.com** — connect your AI agent in under 60 seconds.

Blackboard Learn MCP

20 tools available
Cloud-hosted on Vinkius

Need to manage a campus or classroom without clicking through twenty tabs? This MCP connects your existing Blackboard Learn environment right into any AI client. You stop juggling complex menus just to post an update or check who showed up today. Instead, you talk to your agent and it handles the heavy lifting of course administration.

Whether you're a professor needing to announce a last-minute schedule change or an administrator managing hundreds of enrollments, this connector centralizes those actions. You can list all active courses, view system announcements, check attendance for meetings, and even update grades—all without leaving your chat window. It makes the whole process feel less like IT work and more like just talking to a colleague. To access all these capabilities from one place, you subscribe through Vinkius, which hosts thousands of other industry connections.

Core Capabilities

01 — List all active courses and get course details

Retrieves an overview of every class, or detailed information for a single specified course.

02 — Create, update, or list announcements

Publishes messages system-wide or updates notices within a specific class.

03 — Manage user accounts and enrollments

Creates new users, lists all people in the system, or adds an existing user to a course roster.

04 — Schedule and manage attendance records

Sets up future meetings, lists past meetings, or marks whether a user was present at a session.

05 — Review and modify grades

Lists available grade categories, pulls all scores for one category, or checks the log of recent grade changes.

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/mcp/blackboard-learn** — connect your AI agent in three steps.

01 Subscribe to this MCP on Vinkius and input your Blackboard Learn Base URL and Personal Access Token.

02 Connect that access credential to your preferred AI client (like Claude or Cursor).

03 Tell your agent what you want done—for example, 'Mark John Doe as absent for the meeting today'—and it executes the task.

The bottom line is: you feed your credentials once, and then your AI client runs all the administrative tasks directly against the Blackboard system via natural language commands.

Built For

This MCP is for anyone whose job requires juggling academic records—from teaching to administration. If you spend time navigating clunky, decade-old menus just to update a grade or post an announcement, this tool saves hours of friction.

Professor/Instructor

Posting class announcements, checking who attended the last lecture, and reviewing recent grade changes without leaving their primary workspace.

Academic Administrator

Managing user enrollments across multiple departments or listing all system-wide courses for auditing purposes.

Department Coordinator

Scheduling new academic meetings, creating attendance records for staff training, and managing the overall course calendar.

What Changes When You Connect

01 Post immediate updates: Instead of finding the right announcement tab, you simply ask your agent to create a course announcement, getting the message out instantly.

02 Streamline grading checks: You don't need to manually pull grade reports. Just asking to get_recent_grade_changes gives you a log of who moved whose score and when.

03 Track attendance effortlessly: Use mark_attendance or list_meetings to record class participation without opening the manual attendance module.

04 Simplify user management: Creating new profiles with create_user or listing courses for all users using list_user_courses keeps your roster data accurate instantly.

05 Centralized scheduling: You can manage deadlines and events by creating a calendar item, eliminating the need to check multiple departmental calendars.

Real-World Applications

A professor needs to notify 50 students about an exam reschedule.

Instead of logging into Blackboard, finding CS101, and clicking 'Announcements', the user asks their agent: 'Create a course announcement for CS101 titled Final Exam Update saying it moved to Friday.' The update is posted instantly.

The department head needs an audit of all active courses.

They don't want to click through departments. They ask their agent: 'List all active courses,' and get a comprehensive list, allowing them to immediately check enrollment via list_course_memberships.

An administrator needs to add a new TA who doesn't have an account yet.

They instruct their agent: 'Create a user for Jane Smith and enroll her in MATH302.' The system handles the profile creation (create_user) and the class enrollment (enroll_user) simultaneously.

A teaching assistant needs to record attendance from today's lecture.

They ask their agent: 'Mark attendance for John Doe at today's meeting.' The agent executes mark_attendance using the correct meeting ID, instantly updating the records.

Patterns to Avoid

Trying to manually update grades via web forms

✗ AVOID

Logging into the gradebook and having to click through dozens of student names one by one to input a score. This is slow, error-prone, and takes too much time.

✓ INSTEAD

Use get_recent_grade_changes or list_gradebook_columns to ask your agent to summarize performance data or pull all grades for a specific assessment column.

Confusing system announcements with class news

✗ AVOID

Seeing general campus notices mixed in with actual course material, leading students to ignore critical updates.

✓ INSTEAD

Use list_system_announcements to see only the high-level alerts, or use create_course_announcement to ensure your message is pinned specifically within one class's feed.

Forgetting which meeting ID was used for attendance

✗ AVOID

Being forced to search through old records to find the exact date and unique identifier needed to verify who was present.

✓ INSTEAD

First, use list_meetings to get a list of all relevant meetings. Then, pass that specific ID to get_meeting_attendance to pull accurate records.

The Right Fit

Use this MCP if your role involves coordinating academic life—think grading, scheduling, and communication across multiple student groups or departments. You need an AI agent connection that can handle the nuances of a formal LMS environment.

Don't use it if you only need to manage content outside the platform (like external reading materials) or if you are only building simple messaging threads. For those cases, generic messaging APIs work better.

If your primary goal is simply viewing data without making changes, listing courses or list_calendar_items works fine. But if you need to *act*—create announcements, enroll users, or record attendance—this MCP provides the necessary write access and depth.

Blackboard Learn MCP for AI Agents: Simplifying Gradebook Management

Right now, tracking student performance means logging into the gradebook, opening columns, and manually cross-referencing scores to see who is falling behind. It’s a huge chore that involves dozens of clicks just to get a quick summary.

With this MCP, you simply ask your agent to check for recent grade changes using get_recent_grade_changes. You immediately receive a clean list detailing every score update and who made it, cutting the manual cross-referencing time down to seconds.

Blackboard Learn MCP for AI Agents: Managing Course Communications

Before this, if you had a departmental announcement, you'd have to remember which courses needed the update, and then navigate into

Now, using create_course_announcement, you can target multiple classes or even list all system announcements from a single prompt. The AI

each one individually. It's repetitive work that takes up valuable planning time.

handles the routing so your message gets exactly where it needs to go.

20 Tools in the Blackboard Learn MCP for Grading & Attendance

Use these tools to perform specific actions like listing users, marking attendance, or fetching grade data directly through your agent.

#	TOOL	DESCRIPTION
01	`create_calendar_item`	Creates a specific event or deadline on the shared academic calendar.
02	`create_course_announcement`	Publishes an announcement to students within one designated course.
03	`create_meeting`	Sets up a new attendance session for a specific class or group.
04	`create_user`	Generates and adds a brand-new user profile to the system.
05	`delete_calendar_item`	Removes an existing event or scheduled item from the calendar.
06	`enroll_user`	Adds a specific user to a class roster or course membership list.
07	`get_column_grades`	Retrieves all grades submitted for a specific grading column (e.g., 'Midterm Exam').
08	`get_course`	Fetches detailed information about a single, specified course.
09	`get_meeting_attendance`	Pulls all recorded attendance records for a previously held meeting.
10	`get_recent_grade_changes`	Checks the gradebook log to see who changed grades and when those changes occurred.
11	`list_system_announcements`	Retrieves a list of announcements posted across the entire system, not just one course.
12	`list_calendar_items`	Shows all scheduled events and deadlines that exist on the calendar.
13	`list_course_memberships`	Displays a list of users who are currently enrolled in a specific course.
14	`list_courses`	Provides an overview and list of every active course managed by the system.
15	`list_gradebook_columns`	Shows all available categories or columns used for grading in a specific class.

#	TOOL	DESCRIPTION
16	`list_meetings`	Lists all past and future attendance meetings associated with a given course.
17	`list_user_courses`	Retrieves the list of courses that a particular user is currently registered for.
18	`list_users`	Provides an alphabetical listing of all active users in the system.
19	`mark_attendance`	Records whether a specific user was present, absent, or late for a scheduled meeting.
20	`update_course_announcement`	Edits the text of an existing announcement within a course.

See It in Action

Real prompts you can use once this MCP is connected to your AI agent through Vinkius Cloud.

U What are my active courses and who is enrolled in CS101?

Active Courses:
- CS101: Introduction to Computer Science (25 students)
- MATH302: Advanced Mathematics (30 students)
- HIST400: Modern History Seminar (18 students)

I see CS101 has 25 members. Would you like me to list the full roster for that course?

U Mark attendance for today's meeting in MATH302, specifically John Doe and Jane Smith.

Attendance updated successfully for Meeting ID 98765.

- **John Doe:** Present ✅
- **Jane Smith:** Absent ❌

Need me to update the calendar to schedule a follow-up session?

U What were the grade changes in my class over the last week?

Recent Grade Changes Log:
- **Student:** Alice B. | **Course:** CS101 | **Grade:** 85/100 (Changed from 80) | **Date:** Today, 1:30 PM
- **Student:** Mark T. | **Course:** MATH302 | **Grade:** N/A (Entered by TA) | **Date:** Yesterday, 4:00 PM

Let me know if you want to view the full gradebook for any of these students.

Frequently Asked Questions

01 **How does the Blackboard Learn MCP help with daily grading tasks?**

You can check grades in two ways: pulling all scores for a specific assessment column, or using the recent grade changes tool to see who modified scores and when. This eliminates manually checking individual student records.

02 **Can I use the Blackboard Learn MCP to communicate announcements?**

Yes. You can create new course announcements for a single class, or update an announcement that was already posted. It's great for making sure everyone sees the latest information.

03 **I need to manage user accounts; how does Blackboard Learn MCP help?**

The MCP lets you list all system users and also create entirely new profiles in the system. You can even enroll those new users into specific courses right away.

04 **Can I use this for attendance tracking with my AI agent?**

Absolutely. You can schedule a meeting, mark attendance using names and status (present/absent), or pull all historical records for any given class session.

05 **Is the Blackboard Learn MCP suitable for large academic departments?**

Yes. It provides tools to list multiple courses, manage system-wide announcements, and coordinate scheduling across various parts of your institution efficiently.

Go Live in 60 Seconds

Get your connection token from **cloud.vinkius.com**, then paste the endpoint URL into any MCP-compatible client.

YOUR MCP ENDPOINT

```
https://edge.vinkius.com/[TOKEN]/mcp
```

CLIENT	WHERE TO CONFIGURE
Claude AI	Profile → Customize → Connectors → "+" → Add custom connector → Paste endpoint
Cursor	Settings → Features → MCP Servers → "+ Add New MCP Server" → Type: SSE → Paste endpoint
VS Code	Ctrl/Cmd+Shift+P → "MCP: Add Server" → add `"blackboard-learn": { "url": "…" }`
Windsurf	MCP Settings → `mcp_settings.json` → Add endpoint URL
ChatGPT	Settings → Tools & plugins → Add MCP server → Paste endpoint
Gemini	Extensions → Add MCP Server → Paste endpoint URL

ASK AN AI ABOUT THIS

Let your preferred AI explain this MCP server

- Ask ChatGPT
- Ask Claude
- Ask Perplexity
- Ask Gemini
- Ask Grok

READY TO CONNECT

Blackboard Learn is live on Vinkius Cloud.

Get your connection token, paste it into your AI agent, and start building. No SDK. No deployment. Just results.

Start at cloud.vinkius.com →

vinkius.com · support@vinkius.com

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