

M C P SERVER

NO CODE

CLOUD HOSTED

Course Load Planner for students.

Build a manageable semester without burning out.

Course Load Planner helps you design a sustainable academic schedule. It lets your AI client balance course credits against your actual weekly capacity and work commitments. You can check for prerequisite conflicts, find available classes, and spot weeks where too many deadlines hit at once.

A+ Quality Score 100/100

student

academic

scheduling

planning

university



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.

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.

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.

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

Encryption at rest

Ed25519

PKI vault signatures

24h TTL

Ephemeral session keys

V8 Isolate

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.

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.

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.

06 — Honeypot Trap System

Phantom credentials are injected into isolated environments. If a honeypot 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.

FinOps

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

Firewall & DLP

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

Agent Activity

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

Tool Health

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

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.

Course Load Planner MCP

4 tools available

Cloud-hosted on Vinkius

Planning a semester shouldn't feel like a guessing game. Most students pick classes based on interest, only to realize halfway through the term that their work schedule and exam dates are clashing. This MCP changes how you approach registration. You can give your AI client your specific constraints, like how many hours you work per week or your maximum study capacity, and it will help you build a realistic plan. It doesn't just list classes; it looks at the math of your life. You can verify if a set of courses is actually doable before you commit, and you can identify those brutal weeks where every major assignment is due at the same time. It's about making sure your academic load fits into your actual life, not an idealized version of it.

Core Capabilities

01 — Constraint-based planning

Your agent uses your work hours and credit limits to suggest specific courses.

02 — Prerequisite checking

The AI verifies that you have the necessary background for any course you select.

03 — Stress forecasting

The tool maps out deadline concentrations to show you when your workload will peak.

04 — Course discovery

Your agent can pull the full list of available classes for the upcoming term.

05 — Feasibility testing

The AI checks if a proposed schedule fits within your total weekly time capacity.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/en/ai-agent-connect/course-load-planner — connect your AI agent in three steps.

01 Connect the Course Load Planner MCP to your AI client via Vinkius.

02 Tell your agent your weekly time limits and work hours.

03 Ask the agent to suggest or validate a course selection.

04 Review the predicted stress periods and deadline distributions.

Connect the MCP to your client and start planning through natural conversation.

Built For

This MCP is built for students trying to manage complex schedules involving work and school.

Full-time students

They hand off their work schedules and credit goals to the AI to build a semester plan.

Working students

They use the tool to ensure their course load doesn't conflict with their job hours.

Academic advisors

They can use the tool to quickly validate if a student's proposed plan is viable.

What Changes When You Connect

-
- | | |
|----|---|
| 01 | Matches course loads to actual weekly time availability. |
| 02 | Identifies deadline clusters before they cause burnout. |
| 03 | Verifies prerequisite compliance automatically. |
| 04 | Balances academic credits against employment commitments. |
-

Real-World Applications

Balancing work and school

A student with a 20-hour work week uses the tool to ensure their classes don't exceed their remaining free time.

Avoiding deadline spikes

A student checks their schedule to see if three major projects are due in the same week.

Course selection

A student asks for a list of available Computer Science courses to start their planning.

Schedule validation

A student confirms that a specific combination of classes is academically possible.

Patterns to Avoid

Ignoring work commitments

❌ AVOID

You pick five heavy classes because they look interesting, forgetting you work thirty hours a week.

✓ INSTEAD

Tell your agent your work schedule first and use `suggest_optimized_load` to find a realistic balance.

Blindly trusting a course list

❌ AVOID

You assume you can take Advanced Calculus without checking if you passed the prerequisite.

✓ INSTEAD

Run your planned list through `validate_schedule` to ensure you meet all academic requirements.

Missing the mid-semester crunch

❌ AVOID

You register for three classes that all have massive projects due in the same week of October.

✓ INSTEAD

Use `calculate_term_pressure` to spot these deadline clusters before you commit to the semester.

The Right Fit

Connect this MCP if you are a student balancing school with a job or a heavy extracurricular load. Do not use it if you are only interested in course descriptions without considering your personal time constraints. The decision depends on whether you need to map academic requirements against your actual weekly availability.

Course Load Planner Toolset

These tools handle everything from pulling course lists to checking if your proposed schedule actually fits your life.

#	TOOL	DESCRIPTION
01	calculate_term_pressure	This tool identifies high-stress periods by analyzing how deadlines are distributed throughout the term.
02	get_available_courses	This tool pulls a list of all courses currently open for selection in your upcoming term.
03	suggest_optimized_load	This tool recommends a balanced selection of courses based on your specific constraints like work hours and credit limits.
04	validate_schedule	This tool checks if your proposed course list meets all academic prerequisites and practical time requirements.

See It in Action

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

- U** Suggest a balanced course load for a student who can handle 40 total hours per week and works 15 hours per week, with a target of 12 credits.



The recommended courses are CS101, MATH201, and HIST105.

- U** Is it possible to take CS101 and CS102 if I work 20 hours a week and my limit is 30 hours?



Yes, the schedule is valid as the total study and work hours do not exceed your 30-hour limit.

- U** What are the available courses in the Computer Science department?



The available Computer Science courses are CS101, CS102, and CS201.

Frequently Asked Questions

01 How does this MCP help with scheduling?

It uses tools to suggest balanced course loads, validate prerequisites, and identify high-stress weeks based on deadline density.

02 Can I use this with Claude or Cursor?

Yes, you can connect this MCP to any MCP-compatible client like Claude, Cursor, or Windsurf.

03 Does it account for my job?

Yes, you can provide your work hours as a constraint, and the tool will factor that into the course suggestions and schedule validation.

04 How does it identify stressful weeks?

The `calculate_term_pressure` tool analyzes how deadlines are spread out to show you when your workload is most concentrated.

05 Do I need to host this myself?

No, Vinkius hosts and manages the MCP so it is ready to use immediately after you connect your client.

06 How does the planner ensure my schedule is realistic?

The planner uses `'validate_schedule'` to check your course list against your work hours and maximum weekly capacity, ensuring you don't overcommit.

07 Can I find courses for a specific department?

Yes, you can use `'get_available_courses'` and provide a department name to filter the list of available courses.

08 How can I avoid having too many exams in one week?

You can use `'calculate_term_pressure'` to see the distribution of deadlines across the term and identify potential high-stress periods.

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 <code>"course-load-planner": { "url": "..." }</code>
 Windsurf	MCP Settings → <code>mcp_settings.json</code> → 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

Course Load Planner 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

INDEPENDENT PLATFORM DISCLAIMER

Vinkius is an independent platform and is not affiliated with, endorsed by, sponsored by, verified by, or otherwise authorized by Course Load Planner. All third-party trademarks, logos, and brand names are the property of their respective owners. Their use in this document is strictly for informational purposes to identify service compatibility and interoperability.

DOCUMENT INFORMATION

Generated	October 2026
MCP Server	Course Load Planner MCP
Server ID	01a0fd98-de78-7016-8f6f-333c1f29d54a
Platform	Vinkius Cloud for AI Agents
Endpoint	https://edge.vinkius.com/{token}/mcp

LICENSE & USAGE

This document is generated automatically by the Vinkius PDF Engine. Content reflects the MCP server configuration at the time of generation and may change as updates are deployed. For the most current information, visit vinkius.com/en/ai-agent-connect/course-load-planner.