

## ABSTRACT

UCron is every student's essential tool for academic scheduling, course management, and organization.

Quickly find your university, sign up, and take control of your semester with smart tools to plan classes, track assignments, and stay organized. Try for free at [ucron.net](https://ucron.net)  
 GitHub repository: [github.com/U-Cron](https://github.com/U-Cron)

## INTRODUCTION

Students often struggle to get into the classes they want, while universities face the opposite problem: filling seats in under-enrolled courses. This mismatch creates frustration, inefficiency, and missed opportunities on both sides.

UCron addresses both sides of this problem. It's an all-in-one academic platform that helps students organize their schedules, manage coursework, and make informed decisions using real student reviews. By aggregating publicly available course data, UCRon helps students find the right courses and gives universities a clearer view of demand based on actual student interest and scheduling activity.

## COMPONENTS

Butler API FastAPI mongoDB.  
 Core backend service handling data and application logic.

MAPLE FastAPI mongoDB.  
 Workflow orchestration for data parsing and ingestion.

Admin Dashboard NEXT.js Vercel TS  
 Internal tool for managing and monitoring system operations.

UI NEXT.js Vercel TS GraphQL  
 User-facing interface delivering the main platform experience.

## KEY FEATURES

- Explore**  
Find the Perfect Course in Seconds
- Plan**  
Effortless Planning, Unlimited Possibilities
- Generate**  
Smart Scheduling, Zero Conflicts
- Course History**  
Track Progress & Get Smart Recommendations
- Reviews**  
Course & Instructor Reviews - All in one place
- Desk**  
Where the work gets done! Notes & Assignments



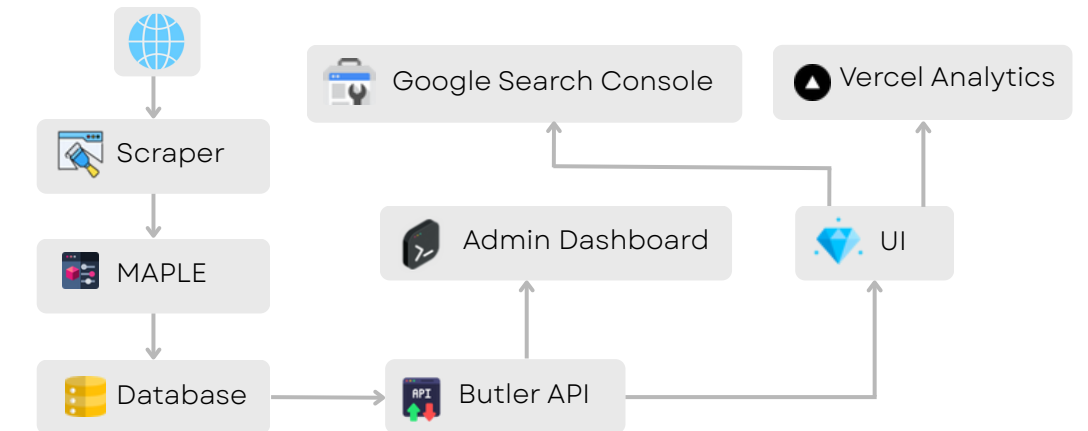
## FEATURES FOR THE UNIVERSITY

- SEO**  
Advanced SEO & Structured Data
- Analytics**  
Imapctful Insights
- Forecast**  
Predict trends

## SUPPORTED UNIVERSITIES

- Drexel University
- Temple University
- Utah State University
- Wentworth Institute of Technology
- University of Notre Dame

## WORKFLOW



Our system starts with a scraper that collects data from university websites. MAPLE, our arbitration and orchestration engine, decides when to run scrapes, resolves conflicts, and formats the data for storage in MongoDB.

The Butler API delivers this data to both the UI and admin dashboard. We also use student data to personalize their experience with tailored course suggestions and insights.

## NEXT STEPS

UCron is focused on growing its user base by expanding support to more universities and refining our marketing strategy. We're also actively working to establish partnerships within Drexel's colleges to help maintain and evolve the platform. Currently, we are developing new features, including a tool that helps generate personalized study plans based on a student's degree.

## SUMMARY

Through building UCRon, we've learned a lot about student needs and the challenges of academic planning. We've delivered core features like Course Reviews, Course History, Desk, and scheduling tools to help students take control of their academic journey. These features reflect our goal of improving student outcomes.