RCOS
Discord link
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Currently potentially working with students from Rutgers and UMich

RPI CENTRAL

19st September 2025

OVERVIEW

RPI Central is an iOS app built to streamline student life at RPI. The core feature is a calendar system tailored to RPI's academic schedule, with support for organizing classes and events in a structured way. Additional functionality includes a meal swipe tracker, and the app is designed to serve as a foundation for integrating more campus utilities over time. It is intended as a central hub for student-related tools rather than a single-purpose app.

PURPOSE

Most tools that are used in day-to-day student life are scattered across several websites, pages, and people. Convenience is also a major factor, as most of these tools are accessed via a laptop due to how spread apart they are across websites and such. The primary goal is to create a centralized app that incorporates all these features to add convenience.

SCOPE

The scope of this semester is limited to:

1. Initial app setup and publication to the App Store.
2. Development of the **class calendar system**, including scheduling, reminders, and integration with RPI's academic calendar.
3. Integration of current tools into the app

Other potential features (e.g., meal swipe tracking, shuttle times, campus utilities) are deferred until later iterations. Some features may be deferred via a link to keep the app functional

Goals

Deliver a functional class calendar app by the end of the semester.

Establish a clean and expandable app structure for future RCOS contributors.

Ensure usability with a polished layout and simple UI.

Milestone 1 - Setup(Weeks 1-3) Sept 14 – Oct 4, 2025

- App shell created
- Repositories and development environment configured
- Figure out coding stuff and if syncing is possible.

Milestone 2 - Basic App and Layout(Week 4-6) Oct 5 – Oct 25, 2025

- Implement core screens (Home, Calendar, Settings).
- Define design language (UI colors, fonts, icons).
- Ensure smooth navigation across views.

Milestone 3 - Calender Core(week 7-10) Oct 26 – Nov 15, 2025

- Add functionality for course/event input, editing, and deletion.
- Support recurring events for weekly schedules.
- Add sync with existing calendar systems(sis or Quacs

Milestone 4 - Calender Features and polishing(week 11-13)

Nov 16 – Dec 12, 2025

- Implement notifications/reminders.
- Implement links for other features
- Release the first version of the app

More concise checklist order of events

1. **Repositories & dev environment configured — Wed Sep 17, 2025(done)**

2. **Figure out coding stack + syncing feasibility (tech spike + notes) — Wed Sep 24, 2025(in progress)**

3. **App shell published (TestFlight/prototype at minimum) — Sat Oct 4, 2025(in progress)**

4. **Design language finalized (colors, fonts, icon set, UI tokens) — Wed Oct 8, 2025**

5. **Core screens implemented (Home, Calendar, Settings) — Mon Oct 20, 2025**

6. **Smooth navigation across views (tabs/stack, deep-links ready) — Sat Oct 25, 2025**

7. **Calendar CRUD: add/edit/delete courses & events — Wed Nov 5, 2025**

8. **Recurring events support (weekly class schedules) — Sat Nov 15, 2025**

9. **Notifications/reminders (local notifications for classes/events) — Sun Nov 23, 2025**

10. **Calendar sync (SIS/QuACS or external iCal feed) — Mon Dec 1, 2025**

11. **Links/placeholders wired for future features (Meals, Shuttle, etc.) — Thu Dec 4, 2025**

12. **Release v1 (semester release build + notes/changelog) — Sat Dec 6, 2025**

Buffer (bugs only): Sun Dec 7 – Fri Dec 12, 2025.