

Release Plan - Enroll Smart

Rev 1.0, Revised: 4/12/2025

High-Level Goals:

- View all courses from the UCSC catalog with course details
- Drag and drop schedule planning
- Login and save planned courses to user's account
- View RateMyProfessor scores for a class
- Add classes to watchlist and get pinged when available
- Track degree progress
- Predict when future courses will be offered

Sprint 1 (4/09-4/22)

- As a user, I want to be able to sign up and sign in, or use Google OAuth to do that so I can use the app and authenticate easily and quickly. [4]
 - High-level goal: "Login and save planned courses to user's account"
- As a user, after logging in, I should be able to see a dashboard giving me a dashboard [2]
 - High-level goal: "Login and save planned courses to user's account"
- As a user, I should be able to go to the search tab and search for data about a particular class so I can get data [2]
 - High-level goal: "View all courses from the UCSC catalog with course details"
- As a user, I should be able to get a list of all classes offered at UCSC and click on a class to get information about it [2]
 - High-level goal: "View all courses from the UCSC catalog with course details"
- As a developer, I should be able to merge into the main branch by pull request to test and deploy the app automatically using CI/CD so the app is deployed and well tested [3]

Spikes:

- Working with UCSC PISA API
- Course scraping

Infrastructure Tasks:

- Configure CI/CD
- Set up Vercel, Auth Middleware, Dockerized PostgreSQL

Sprint 2 (4/23-5/6)

- As a user, I should be able to distinguish between required, elective, and capstone courses so I can better plan to meet graduation requirements [2]
 - High-level goal: "View all courses from the UCSC catalog with course details"
- As a user, I should be able to select the classes I've already taken and want to take so I can properly generate future schedules [3]

- High-level goal: “Drag and drop courses I haven’t met the prerequisites for so I can prevent schedule conflicts before enrolling [3]”
 - High-level goal: “Drag and drop schedule planning”
- As a user, I should be able to generate a schedule on a timetable without time conflicts [3]
 - High-level goal: “Drag and drop schedule planning”

Spikes:

- Scraping UCSC class data for course details and prerequisites
- Taking and working with user data

Infrastructure Tasks:

- Design schema for user schedules
- Test with mock data

Sprint 3 (5/7-5/20)

- As a user, I can see ratings of the corresponding course on Rate My Professor. [3]
 - High-level goal: “View RateMyProfessor scores for a class”
- As a user, I should be able to add classes I want to take to a wishlist [3]
 - High-level goal: “Add classes to watchlist and get pinged when available”
- As a user, I should be notified when a class I have watchlisted is available [5]
 - High-level goal: “Add classes to watchlist and get pinged when available”
- As a user, I should be able to see my progress towards graduating, including the classes I have not taken [6]
 - High-level goal: “Track degree progress”

Spikes:

- RateMyProfessor scraping
- Degree requirement scraping

Infrastructure Tasks:

- Set up notifications for watchlisted classes

Sprint 4 (5/21-6/3)

- As a user, I need to know in what quarter a course is most likely to be offered [4]
 - High-level goal: “Predict when future courses will be offered”
- As a user, I need to receive advance notification from the app when my enrollment date is approaching. [4]
 - High-level goal:
- As a user, I should be able to get directions to the class by setting my current location so I can decide whether to take the class or not [5]
 - High-level goal:

Spikes:

- Accurate Course Prediction
 - Getting directions to class
- Infrastructure Tasks:
- Set up notifications for enrollment date
 - Create ML model for course offering prediction

MVP

- Users should be able to search for classes from the UCSC catalog
- Users should be able to drag and drop courses into a timetable to plan future courses
- Users should be able to log in and view their saved course plans
- Users should be able to view the RateMyProfessor score for professors
- Users should be notified of class enrollment updates

Architecture

Technologies

- React JS - Frontend
- Python Flask - APIs, CORS
- Database - Dockerized version of PostgreSQL
- Figma for UI/UX
- Middleware OPENAPI Swagger
- AWS Lambda backend
- Vercel frontend
- Github Actions for CI/CD

Risks/Challenges

- Collecting real-time class data
- Getting the data on what classes each major needs to take
- Accurately predicting what quarter a class will be offered
- Protecting user data and privacy
- New technology for some members