

Release Plan

Product name: Course Planner

Team name: FLOAT

Release name: 1.0.0 Beta

Release date: Dec 10, 2023

Revision number: 1

Revision date: Oct 10, 2023

[Course Planner Design Doc](#)

High level goals:

- Customizable course planner
- Schedule validation
- Tracking major requirements
- Prerequisite checking

MVP:

- A customizable course planner for CS/CE major students
- Major progress indicator
- GE progress indicator
- Exporting

Maximum total hours/story points per Sprint: 60

Sprint 1

As a student, I want to:

- 1) User story 1.1 [21 story points] Be able to see and select courses from the UCSC catalog to add to my planner
- 2) User story 1.2 [13 story points] Drag and drop into/out of the planner
- 3) User story 1.3 [13 Story Points] Search for courses by title or course number
- 4) User story 1.4 [5 story points] Be able to keep my courses in the planner, even if I refresh or close the page

Sprint 2

Total hours:

As a student, I want to:

- 1) User story 2.1 [21 story points] Create/compare multiple course planners

- 2) User story 2.2 [21 story points] Login and see my saved course planners
- 3) User story 2.3 [13 story points] Export my course planner to a CSV

NEW SPRINT 3 AND 4

Sprint 3

As a student, I want to be able to

- 1) User story 3.1 [5 story points] Add any course(s) from any department
- ~~2) User story 3.2 [21 story points] Automatically verify that my classes are in the correct order to fulfill any prerequisites~~
- 3) User story 3.3 [5 story points] Verify that I can graduate with the number of credits for my selected courses
- 4) User story 3.4 [21 story points] Add courses and mark them as CS electives
- 5) User story 3.5 [5 story points] Login and see my saved course planners
- 6) User story 3.6 (originally 4.4) [5 story points] Verify that I can graduate with GEs
- 7) User story 3.7 (originally 3.5) [__ story points] See details about a selected course (title, number of credits, GE code, etc.)

Sprint 4

- 1) User story 4.1 [__ story points] Select my catalog year and major from a dropdown
- 2) User story 4.2 [__ story points] Have the option to automatically fill the planner in with the correct courses for my major.
- ~~3) User story 4.3 [__ story points] Verify that I can graduate with my selected major requirements (for all majors):~~
- 4) User story 4.6 [__ story points] Add a course multiple times in my planner
 - Add Name and department in ID of course instance on frontend
- 5) User story 4.7 [__ story points] Add custom courses in case they don't exist in the catalog

OLD SPRINT 3 AND 4

Sprint 3

As a user I want to be able to

- 6) User story 3.1 [21 story points] Select my catalog year and major from a dropdown

- 7) User story 3.2 [21 story points] Automatically verify that my classes are in the correct order to fulfill any prerequisites
- 8) User story 3.3 [13 story points] Be able to verify that I can graduate with my selected courses (not including GE's)

Sprint 4

- 8) User story 4.2 [21 story points] As a student, I want to be able to add any course(s) from any department.
 - 9) User story 4.2 [21 story points] As a student, I want to be able to verify that I can graduate with my selected courses (including GE's).
 - 10) User story 4.3 [21 story points] As a student, I want to have the option to automatically fill the planner in with the correct courses for my major.
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Product Backlog:

- Allow the user to pick a color scheme for their course planner
- Integrate officially planned future courses utilizing the [pisa class search](#) and the [BSOE future course schedule](#)
- Integrate rate my professor ratings

Technologies

- Next JS (React & Node), TypeScript, Python
- Apollo and GraphQL-Yoga for GraphQL client and server, respectively
- PostgreSQL and Prisma for database management
- Cypress, and Jest for testing
- Playwright and BeautifulSoup for web scraping

Infrastructure

- Vercel and LogFlare for deployment and logging
- GitHub Actions for continuous integration
- Docker for local development and testing