

DCDA Advisor Mobile - App Summary

What it is

A mobile-first degree planning app for Digital Culture & Data Analytics (DCDA) students at TCU. It provides an interactive wizard to audit completed coursework and plan future semesters toward graduation.

Who it's for

Primary users are DCDA major or minor students at TCU planning their degree requirements.

What it does

- Guides users through History (completed courses), Planning (future scheduling), and Review phases.
- Enforces degree logic: major vs minor credit totals, core vs elective categorization, mutually exclusive courses.
- Maps transfer or special credits into general electives.
- Generates semester plans through graduation, supports optional summer terms, and schedules the capstone in the final spring.
- Presents a review dashboard with progress bars, completed lists, and a semester plan.
- Uses JSON course catalog and semester offerings data; stores user progress locally in browser storage.

How it works

- UI built from wizard steps and reusable UI components in ``src/components/``.
- Data sources in ``src/data/`` (courses, requirements, semester offerings).
- State and requirement logic in hooks: ``useStudentData`` and ``useRequirements``.
- Course filtering and scheduling helpers in ``src/services/courses.ts``.
- Flow: user inputs -> hooks update state -> requirements engine computes unmet categories -> planning steps schedule courses -> review summarizes progress.

How to run

- Prereq: Node.js 18+.
- Install dependencies: ``npm install``.
- Start dev server: ``npm run dev``.