



Codex 201 Core Skills

- 1 Days
- Lecture and Hands-on Labs

Course Overview

This course builds on the Codex fundamentals introduced in Session 101 and focuses on using project context to produce better AI-assisted coding results. You will prepare ChatGPT Codex for a focused project workflow, learn how context shapes model behavior, and create supporting documents that guide later development work.

The course begins with a short Codex setup and orientation, then moves into context management and project preparation. You will create requirements, design, data model, and test-plan documents for a coding project, then use those files to guide Codex as it plans, generates, reviews, and refines application code.

By the end of the course, you will understand how to move beyond one-off prompting and use Codex with prepared project context. You will have practiced building a PowerShell Task Tracker from scoped project documents, reviewing generated code, running the application locally, and verifying behavior through terminal-based tests.

Review this course online at <https://www.alta3.com/courses/00-template>

Students are responsible for ensuring all required accounts, software, licenses, and online resources are accessible and functioning prior to class. See the prerequisites section for more details.

What You'll Learn

- Open and prepare ChatGPT Codex for a focused project-based workflow
- Explain how context affects AI-assisted coding results
- Create project context files that guide later Codex development work
- Use requirements, design, data model, and test-plan documents to reduce ambiguity
- Reference project files to focus Codex on the correct task information
- Prompt Codex to plan, generate, review, and refine code using prepared project context
- Build and improve a PowerShell Task Tracker application with Codex assistance
- Run, inspect, and verify Codex-generated code from a local terminal

Outline

ChatGPT Codex: Session 201 - Core Skills

- Lecture: Course Overview

Complete ONE track only:

Track 1 - Zombie Outbreak Regional Coordination

- Lecture: Core Workflow Mechanics
- Lecture + Lab: Core Workflow Mechanics

- Lecture: Context Management
- Lecture + Lab: Context Management
- Lecture: Advanced AGENTS.md
- Lecture + Lab: Advanced AGENTS.md
- Lecture + Lab: The Full Workflow

Track 2 - BattleBots Tournament Coordination

- Lecture: Core Workflow Mechanics
- Lecture + Lab: Core Workflow Mechanics
- Lecture: Context Management
- Lecture + Lab: Context Management
- Lecture: Advanced AGENTS.md
- Lecture + Lab: Advanced AGENTS.md
- Lecture + Lab: The Full Workflow

Track 3 - AI Cost Control Initiative

- Lecture: Core Workflow Mechanics
- Lecture + Lab: Core Workflow Mechanics
- Lecture: Context Management
- Lecture + Lab: Context Management
- Lecture: Advanced AGENTS.md
- Lecture + Lab: Advanced AGENTS.md
- Lecture + Lab: The Full Workflow

Appendix

- Lecture + Lab: Install and Sign In to the ChatGPT Codex App

Prerequisites

- Codex already installed
- Codex is licensed
- Students are not firewalled from GitHub and therefore able to download exercises