

AI Workflows for AEC Professionals Course Online

This course explores how artificial intelligence is used throughout the built environment, from initial planning and design to construction and project completion. Students will build practical experience creating automation tools and scripts that address the day to day needs of AEC professionals.

Group classes (Live Online) and onsite training are available for this course. For more information, email onsite@graduateschool.edu or visit: <https://www.graduateschool.edu/courses/ai-workflows-for-aec-professionals-course-online>



support@graduateschool.edu •
[\(888\) 744-4723](tel:(888)744-4723)

Course Outline

Lesson 1: Pre-Design & Programming

- Site Analysis & Zoning
- AI-Driven Building Programs
- Intro to Data Formatting
- Assignment: Graded Discussion Forum Post

Lesson 2: Schematic Design

- Iterative & Generative Design
- Real-time Cost Estimating
- Visual Concept Generation
- Assignment: Hands-On Quiz – Prompting Techniques

Lesson 3: Construction Documentation

- Scripting for CAD/BIM
- AI Code Studies
- Generating Sheet Lists & Notes
- Assignment: Midterm Submission – Spec Analysis & RFI Log

Lesson 4: Bidding & Proposals

- Bid Leveling with AI
- Writing Technical Proposals
- Qualification Evaluation
- Assignment: Hands-On Quiz – Predictive Analysis

Lesson 5: Construction Management

- AI Scheduling
- Field Report Analysis
- Real-time Budget Tracking
- Assignment: Hands-On Quiz – Pattern Techniques

Lesson 6: Finalizing the Project

- Commissioning Logs
- Post-Occupancy Scripts
- Deploying the App UI
- Assignment: Final Submission – Complete AI Web-App & Documentation