

CTEL Course Resource Guide

Introduction to Gemini Notebook

Key Concepts & Highlights

This resource introduces faculty to Gemini Notebook and its role as an AI-supported research and instructional design tool. Unlike many generative AI platforms, Notebook uses only the sources you provide, making it especially useful for working with course materials, OER content, scholarly articles, notes, and instructor-created resources. Notebook can help summarize information, generate instructional materials, create multimedia study tools, and support student learning while remaining grounded in curated source material. The resource also highlights Notebook Studio tools, including Audio Overview, Video Overview, Study Guides, Mind Maps, Quizzes, Flashcards, and Slide Deck generation.

Recommended Strategies & Practices for Implementation

1. Strategy: Build Course-Specific AI Notebooks

Why it matters:

Gemini Notebook remains grounded in instructor-provided materials, helping ensure relevance and reducing the risk of hallucinations.

How to implement:

- Upload course readings, lecture notes, OER chapters, or assignment instructions
- Organize materials by unit or module
- Use Notebook summaries and Q&A features to quickly review content
- Create separate notebooks for different courses or major topics

2. Strategy: Use Studio Tools to Generate Student Support Materials

Why it matters:

Multimedia and interactive support materials can improve engagement, accessibility, and comprehension.

How to implement:

- Generate Audio Overviews to provide students with conversational summaries of course topics
- Use Video Overviews and Slide Decks to support lectures or review sessions
- Create Study Guides, Quizzes, and Flashcards for formative review

- Generate Mind Maps to help students visualize relationships between concepts

3. Strategy: Create AI-Supported Study Resources

Why it matters:

Notebook can transform static materials into more interactive and student-friendly learning resources.

How to implement:

- Upload openly licensed textbook chapters or course notes
- Ask Notebook to summarize difficult concepts or create review materials
- Generate quizzes or study guides aligned to learning outcomes
- Use outputs as a starting point for faculty refinement and customization

4. Strategy: Use Notebook to Support Instructional Planning

Why it matters:

Notebook can help instructors organize information, identify themes, and accelerate course preparation.

How to implement:

- Upload meeting notes, articles, or curriculum documents
- Generate outlines, summaries, and topic overviews
- Use the notebook chat feature to ask questions about uploaded materials
- Create quick review resources before lectures or discussions

Quick Tips

- Notebook only uses the sources you provide
- Organize notebooks by course or module for better results
- Smaller, focused notebooks often produce clearer outputs
- AI-generated content should always be reviewed for accuracy
- Detailed prompts improve the quality and specificity of outputs

Additional Resources

[Study Anything with NotebookLM](#): Google resource introducing NotebookLM features for studying and working with source materials.

[Use NotebookLM to Master Any Subject](#): Google overview of NotebookLM features designed to support learning and study.

[Google NotebookLM](#): Open NotebookLM to create source-grounded notebooks and explore its tools.

[Broward College Artificial Intelligence in Higher Education Guide](#): Broward College Library guidance and resources on artificial intelligence in higher education.

[AI at Broward College](#): Broward College information and resources related to artificial intelligence.

[CTEL Faculty Resources](#): Faculty-development resources and professional learning opportunities.