

# AI Design Assistant

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## Artificial Intelligence (AI) Design Assistant

Creating a new course from nothing can be a time-consuming task that involves a lot of repetitive work. Your institution may have limited resources for instructional design, or you may want help outlining your course. The AI Design Assistant helps you build your course and saves you time.

At all steps in the creation process, you can adjust the complexity of content and customize everything that the AI Design Assistant generates. You can even use the AI Design Assistant to give your course a unique look to better engage your students by generating images or keywords to search Unsplash's gallery of stock photos.

There are ten levels of complexity for Al-generated content.

- 1. Early primary school
- 2. Late primary school
- 3. Early middle school
- 4. Late middle school

- 5. Early high school
- 6. Late high school
- 7. Undergraduate lower division
- 8. Undergraduate upper division
- 9. Graduate level
- 10. Advanced PhD level

As we look to explore the benefits AI has to offer, we are prioritizing lawful, ethical, and responsible use. We have established our Trustworthy AI principles, where we commit to:

- humans in control,
- fairness,
- privacy,
- security, and
- safety.

We recommend reviewing the documents linked below as you consider using AI within Learn Ultra.

- Our Trustworthy AI Principles can be found in our Trust Center.
- More about the AI Design Assistant's functionalities and uses can be found on our administrator pages.

We chose to partner with Microsoft to provide this functionality for many reasons. A primary reason is that Microsoft has a long-standing commitment to the ethical use of AI. Please find helpful resources from Microsoft below:

- Microsoft's Responsible Al page
- Microsoft's Transparency Note for Azure Open Al Service
- Microsoft's page on Data, privacy, and security for Azure OpenAl Service

Topics on this page include:

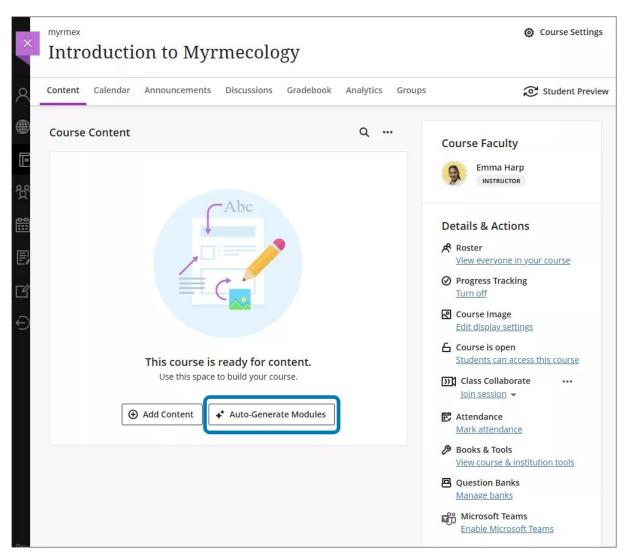
- Course structure suggestions
- <u>Discussion generation</u>
- Journal generation
- Rubric generation
- Assignment prompt generation

- <u>Test question generation</u>
- Question Bank generation
- Insert or generate images
- Al Conversations
- Generate Document layouts
- Supported output languages for AI workflows

## **Course structure suggestions**

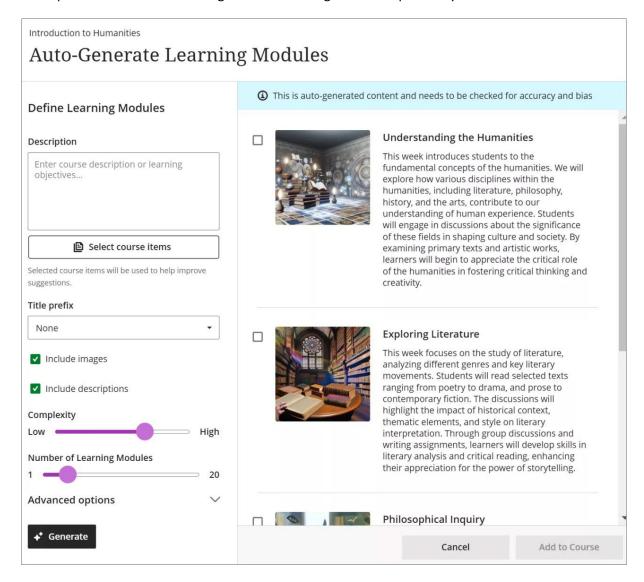
If you need help designing your course and don't know where to start, the AI Design Assistant can guide you through building the course's structure. The AI Design Assistant draws insights from your course's title and description to generate learning modules. Learning modules can support a course objective, concept, or theme. Learning modules help you organize your content and guide how your students navigate through a topic.

In an empty course, select Auto-Generate Modules.



If you already have content in your course, **Auto-Generate Modules** is an option in the **Create Item** menu.

When you select **Auto-Generate Modules**, each generated module comes with a name, image, and description. You can turn off the generation of images or descriptions if you choose.

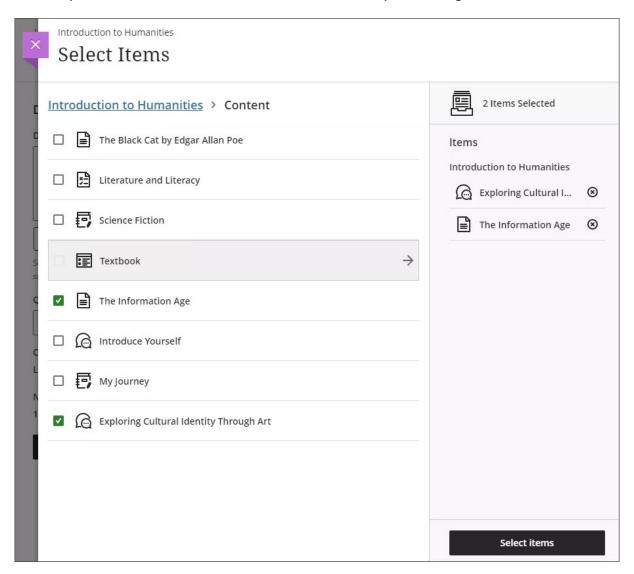


You have several ways to customize the learning modules that the AI Design Assistant generates.

- Enter a description (limited to 2000 characters) to narrow the focus of the modules
- Select a prefix for the module titles
- Choose whether to include Al-generated images for the modules
- · Adjust the complexity of the modules' focus
- Select the number of modules to generate
- Select Advanced options to change the output language

Optionally, you can select which course items you'd like the AI Design Assistant to provide context for new learning modules. Select **Select course items** to start.

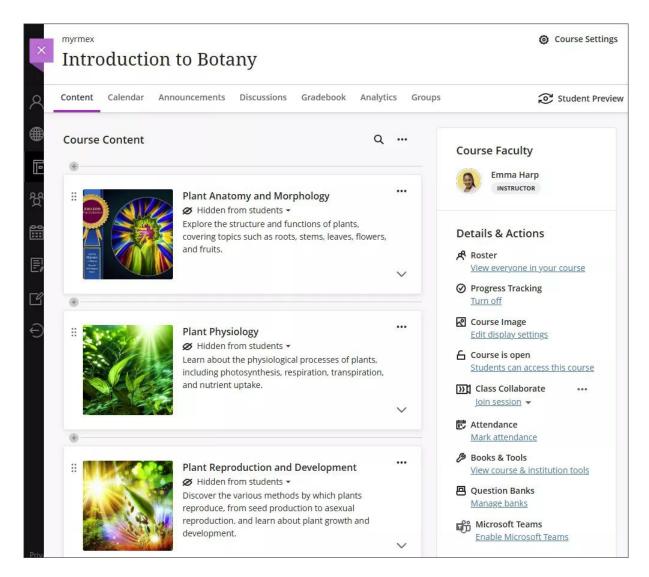
Select any course content item to include it in the context for your learning module.



You can select a folder or learning module to include items from them. When you finish choosing items for context, select **Select items** to return to module generation.

File types supported by the context picker include PDF, Word, PowerPoint, text, RTF, and HTML.

Once you've finalized your settings, select **Generate**. Choose the modules you'd like to add to your course, then select **Add to Course**.



Review each learning module's title and description for accuracy. You can also edit learning modules to better fit your teaching style and goals. <u>Visit the "Create Learning Modules" topic to learn more about how to customize and navigate learning modules.</u>

The AI Design Assistant can generate images for pre-existing learning modules. You can also upload your own images or select the built-in feature to include a stock photo from Unsplash.

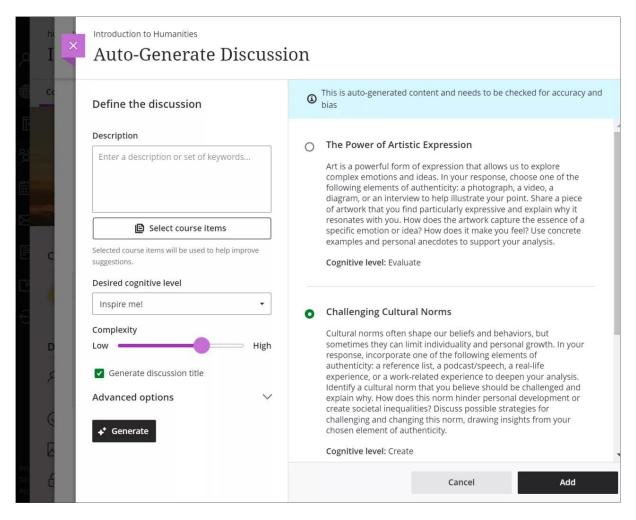
#### Watch a video about AI Module Generation

The following narrated video provides a visual and auditory representation of some of the information included on this page. For a detailed description of what is portrayed in the video, <u>open</u> the video on Vimeo, navigate to *More actions*, and select *Open transcript*.

Video: Al Module Generation

### **Generate discussions**

Discussions are generated based on your course's title and description.



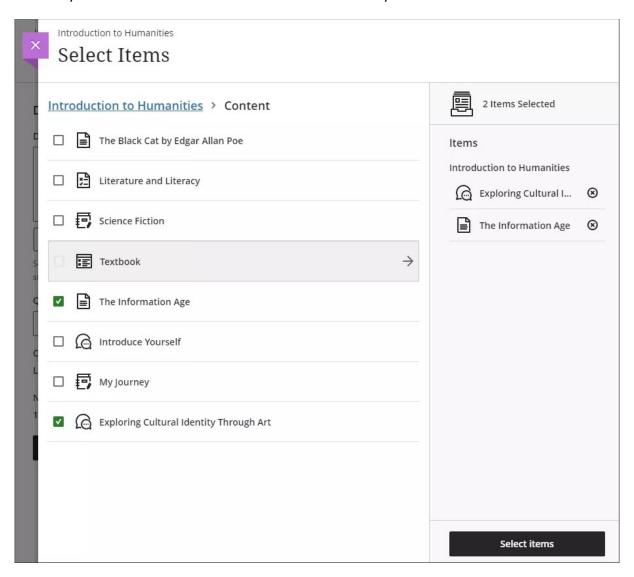
You have several ways to customize the discussions that the AI Design Assistant generates.

- Enter a description (limited to 2000 characters) to narrow the focus of the discussions
- Select the desired cognitive level
  - Apply
  - Analyze
  - Evaluate
  - Create
  - o Inspire me! provides you with a mix of levels
- Adjust the complexity of the discussions' focus
- Select whether or not you want to generate a title for discussions
- Select Advanced options to change the output language

Cognitive levels are based on Bloom's Taxonomy.

Optionally, you can select which course items you'd like the AI Design Assistant to provide context for discussions. Select **Select course items** to start.

Select any course content item to include it in the context for your discussion.



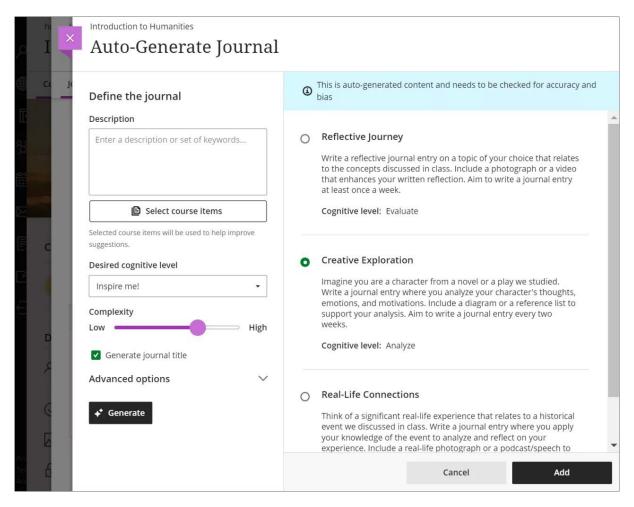
You can select a folder or learning module to include items from them. When you've finished choosing items for context, select **Select items** to return to question generation.

Once you've finalized your settings, select **Generate**. Review each discussion for accuracy and bias. Choose the discussion you'd like to add to your course, then select **Add**.

File types supported by the context picker include PDF, Word, PowerPoint, text, RTF, and HTML.

## Generate journals

Journals are generated based on your course's title and description.



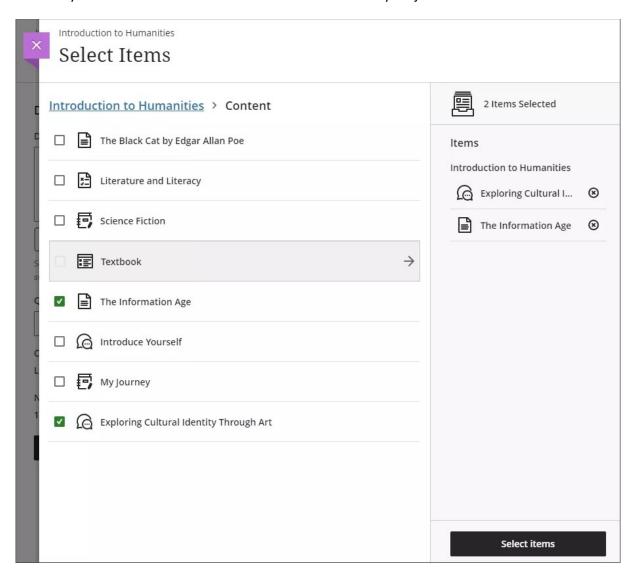
You have several ways to customize the journals that the AI Design Assistant generates.

- Enter a description (limited to 2000 characters) to narrow the focus of the journals
- Select the desired cognitive level
  - Apply
  - Analyze
  - Evaluate
  - Create
  - o Inspire me! provides you with a mix of levels
- Adjust the complexity of the journals' focus
- Select whether or not you want to generate a title for journals
- Select **Advanced options** to change the output language

Cognitive levels are based on Bloom's Taxonomy.

Optionally, you can select which course items you'd like the AI Design Assistant to provide context for journals. Select **Select course items** to start.

Select any course content item to include it in the context for your journal.



You can select the arrow beside a folder or learning module to include items from them. When you've finished choosing items for context, select **Select items** to return to question generation.

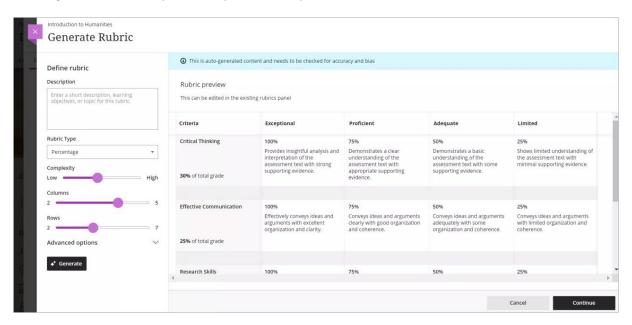
File types supported by the context picker include PDF, Word, PowerPoint, text, RTF, and HTML.

Once you've finalized your settings, select **Generate**. Review each journal for accuracy and bias. Choose the journal you'd like to add to your course, then select **Add**. Visit the "Journals" topic to learn more about journals.

#### Generate rubics

Grading rubrics offer a structured framework to assess student work. Rubrics ensure both fairness and consistency in grading. Moreover, rubrics give students clear directives to meet desired learning outcomes. However, creating rubrics can take a lot of time. The AI Design Assistant creates rubrics by drawing insights from course context.

Rubric generation is an option everywhere that you can create a rubric. Select **Generate** to start.



You have several ways to customize the rubrics that the AI Design Assistant generates.

- Enter a description (limited to 2000 characters) to narrow the focus of the rubric
- Select the rubric type: percentage, percentage range, points, point range, or no points
- Adjust the complexity of the rubric
- Define the number of columns and rows
- Select Advanced options to change the output language

Once you've finalized your settings, select **Generate**. If the rubric meets your needs, select **Continue** to edit the rubric.

Review the rubric for accuracy. You can also further edit your rubric to better fit your teaching style and goals. <u>Visit the "Rubrics" topic to learn more about how you can customize your rubric.</u>

#### Watch a video about AI Rubric Generation

The following narrated video provides a visual and auditory representation of some of the information included on this page. For a detailed description of what is portrayed in the video, <u>open the video on Vimeo</u>, navigate to *More actions*, and select *Open transcript*.

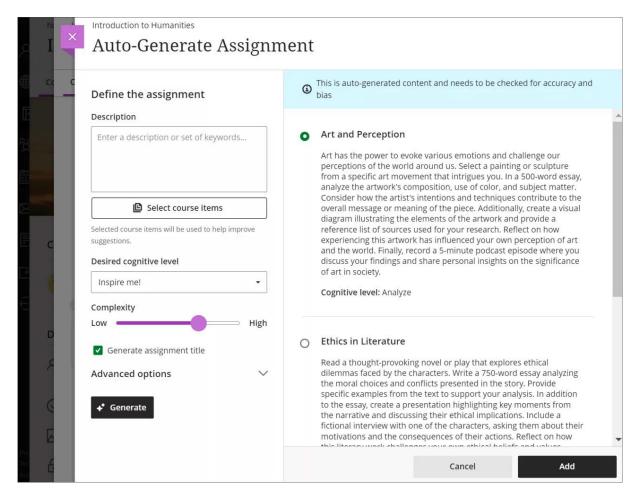
Video: Al Rubric Generation

## Generate assignment prompts

You can generate assignment prompts that encourage students to:

- · engage in higher-order thinking
- apply knowledge gained from your class
- produce authentic submissions that are evidenced
- emulate real-world situations

Assignment prompts are generated based on course context. On the assignment creation page, select **Auto-generate assignment**.



The AI Design Assistant generates three assignment prompts. You have several ways to refine the prompts that the AI Design Assistant generates.

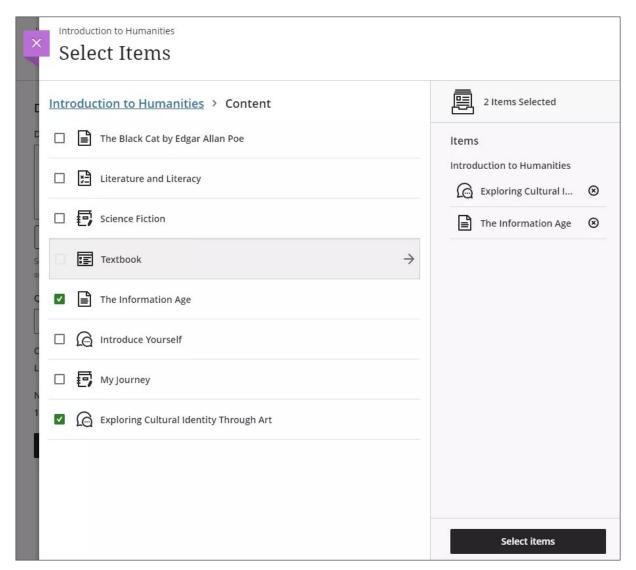
- Enter a description (limited to 2000 characters) to narrow the focus of the prompts
- Select the desired cognitive level
  - Apply
  - Analyze

- Evaluate
- o Create
- o Inspire me! provides you with a mix of levels
- Adjust the complexity of the prompts' focus
- Select whether or not you want to generate a title for the prompts
- Select Advanced options to change the output language

Cognitive levels are based on Bloom's Taxonomy.

Optionally, you can select which course items you'd like the AI Design Assistant to provide context for the assignment prompts. Select **Select course items** to start.

Select any course content item to include it in the context for your test.



You can select a folder or learning module to include items from them. When you've finished choosing items for context, select **Select items** to return to question generation.

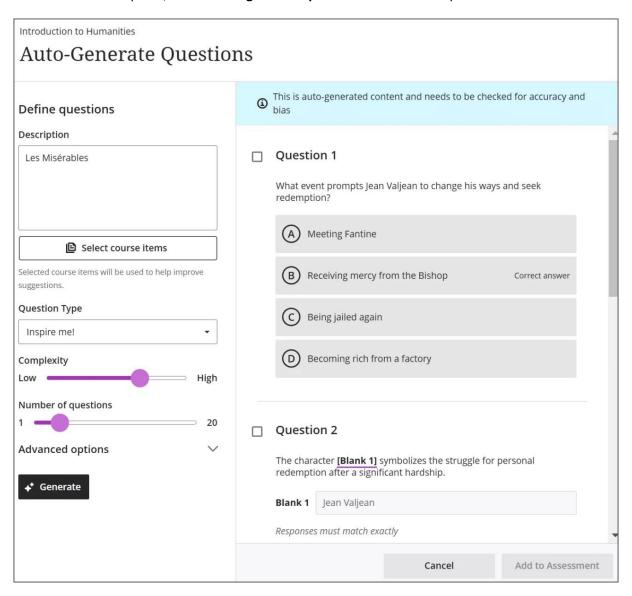
File types supported by the context picker include PDF, Word, PowerPoint, text, RTF, and HTML.

Once you've finalized your settings, select **Generate**. Review each prompt for accuracy and bias. Choose the prompt you'd like to add to your assignment, then select **Add**. Visit the "Create and Edit Assignments" topic to learn more about assignments.

## **Generate test questions**

Creating test questions takes a significant amount of time. The AI Design Assistant can offer suggestions for test questions, giving you extra time to focus on more complicated tasks. The AI Design Assistant is beneficial for both formative and summative assessments. Test questions are generated based on the course context that you select.

In the test creation panel, select **Auto-generate question** from the new question menu.



You have several ways to refine the test questions that the AI Design Assistant generates.

 Enter an optional description (limited to 2000 characters) to narrow the focus of the questions

- Adjust the complexity of the questions
- Select the number of questions
- Select **Advanced options** to change the output language

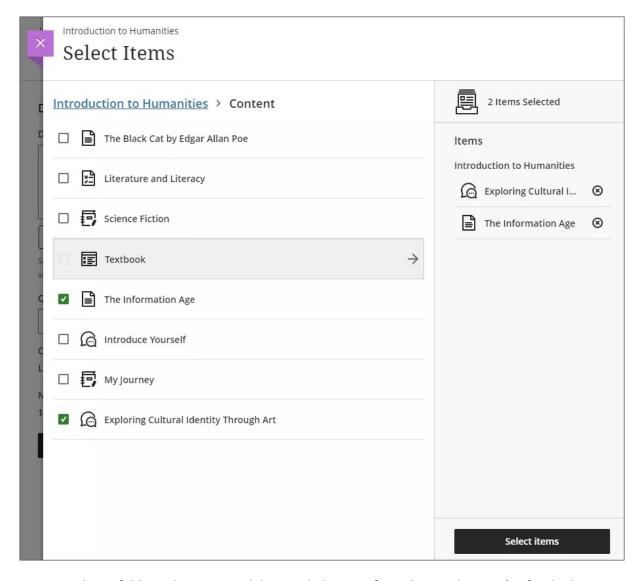
You can select from the following question types:

- Essay
- Fill in the blank
- Matching
- Multiple choice
- True/False

The "Inspire me!" question type suggests a variety of question types to give you more options. <u>Visit the "Question Types" topic to learn more about different types of questions in Learn.</u>

Optionally, you can select which course items you'd like the Al Design Assistant to provide context for test questions. Select **Select course items** to start.

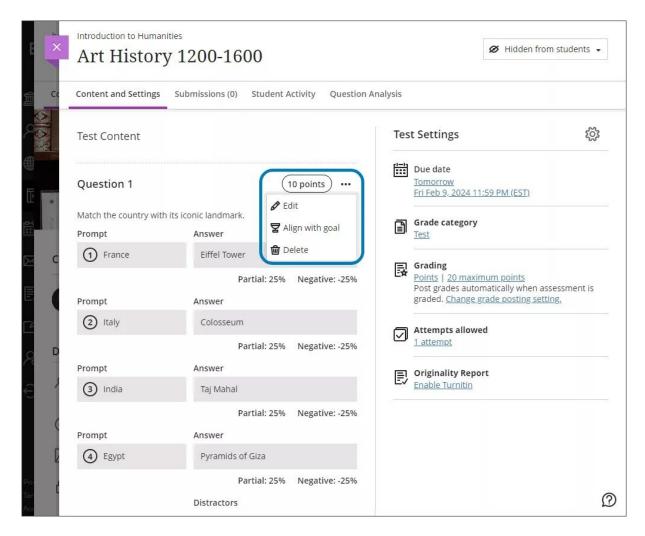
Select any course content item to include it in the context for your test.



You can select a folder or learning module to include items from them. When you've finished choosing items for context, select **Select items** to return to question generation.

The context picker does not draw context from items that are attached to an Ultra document. Only items that appear on the context picker's menu are used by the context picker.

Once you've finalized all of your settings, select **Generate**. Choose the questions that you'd like to add to your assessment, then select **Add to Assessment**.



Review each question for accuracy and bias. You can also edit questions to better fit your learning goals. Visit the "Edit Tests and Questions" topic to learn more about editing test questions.

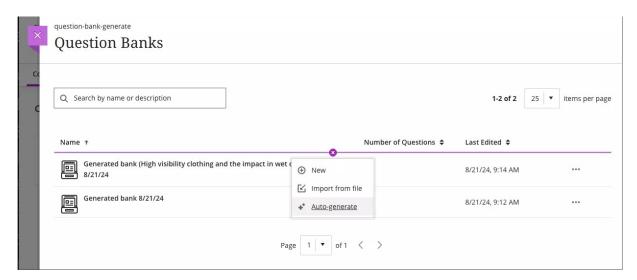
#### Watch a video about AI Question Generation

The following narrated video provides a visual and auditory representation of some of the information included on this page. For a detailed description of what is portrayed in the video, <u>open the video on Vimeo</u>, navigate to *More actions*, and select *Open transcript*.

Video: Al Question Generation

## **Generate question banks**

Go to **Question Banks** from the Course Content page. Go to create a new item and select **Autogenerate**. <u>Visit the "Question Banks" topic for more general information about question banks.</u>



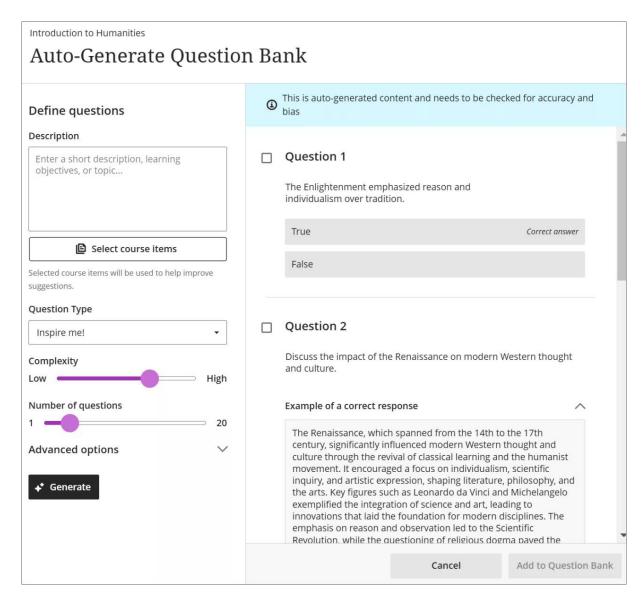
You have several ways to refine the questions that the AI Design Assistant generates.

- Enter a description (limited to 2000 characters) to narrow the focus of the questions
- Adjust the complexity of the questions
- Select the number of questions
- Select Advanced options to change the output language

You can select from the following question types:

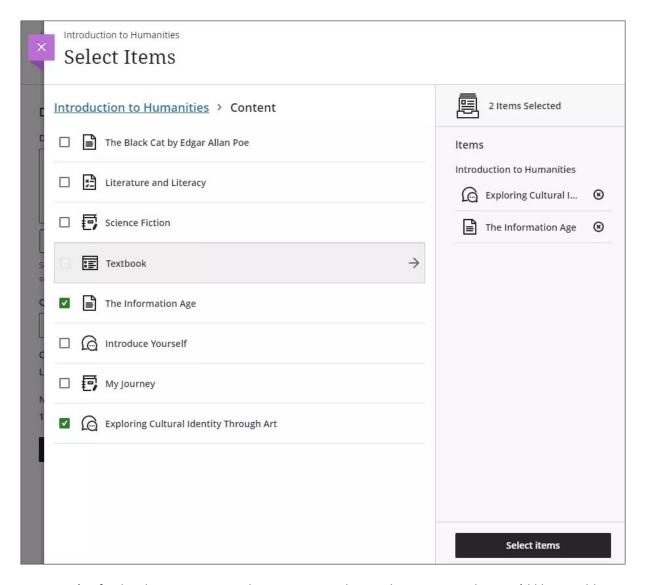
- Essay
- Fill in the blank
- Matching
- Multiple choice
- True/False

The "Inspire me!" question type suggests a variety of question types to give you more options. <u>Visit</u> the "Question Types" topic to learn more about different types of questions in Blackboard.



Optionally, you can select which course items you'd like the AI Design Assistant to provide context for questions. Select **Select course items** to start.

Select any course content item to include it in the context for your question.



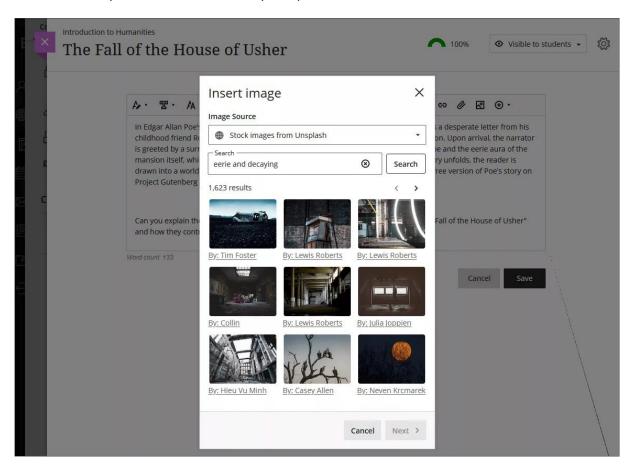
Once you've finalized your settings, select **Generate**. Choose the questions that you'd like to add to your Question Bank, then select **Add to Question Bank**.

Review each question for accuracy. You can also edit questions to better fit your learning goals. <u>Visit the "Edit Tests and Questions" topic to learn more about editing questions.</u>

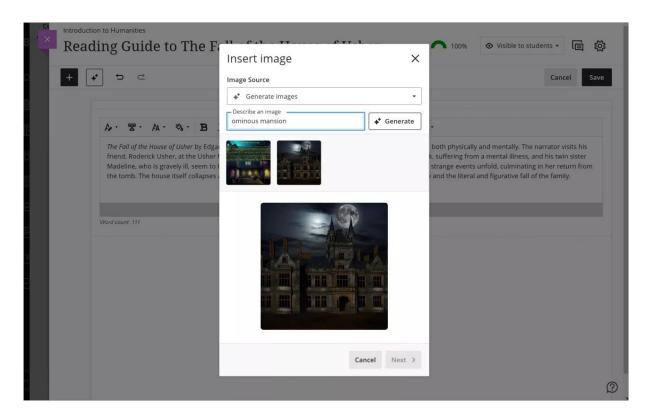
## **Generate images**

You can directly insert Al-generated or stock images into the text editor by selecting the **Image** button.

When you use Unsplash, the search terms will be autopopulated from your text. You can select the X button and use your own search terms if you'd prefer.



With the AI Design Assistant, you can generate an image to insert into your text. Enter a description for your image and then select **Generate**. One image is generated at a time. When you choose to regenerate an image, the previous image is saved. After you select an image or exit image generation, all previous generated images are cleared.



Students can only upload images and can't generate images or use Unsplash.

### Watch a video aboutGenerate Images - Blackboard

The following narrated video provides a visual and auditory representation of some of the information included on this page. For a detailed description of what is portrayed in the video, open the video on Vimeo, navigate to More actions, and select Open transcript.

Video: Generate Images - Blackboard

#### **Create AI Conversations**

You can create AI Conversations around a topic or scenario to engage your students. AI Conversations include Socratic questioning and role-play exercises. Students can explore and reflect on their own thoughts or role-play a situation related to their learning or career path. We'll include other conversation types as we gather feedback and insights from users.

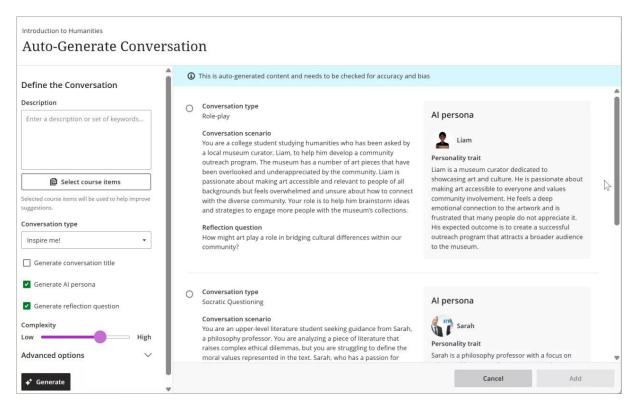
There are two elements to the AI Conversation activity:

- Al Conversation
  - This asks students to think critically about the topic that the instructor designs.
- Reflection question
  - This asks students to share their thoughts on the activity. Students can also flag any bias or errors from the AI as part of our <u>Trustworthy AI Approach</u>. Reflection helps students understand the responsible use of AI services.

Visit the "AI Conversations" topic for more information about AI Conversations.

#### **Generate AI Conversations**

You can use the AI Design Assistant to generate AI Conversations. Select **Auto-generate conversation** when you first create a conversation.



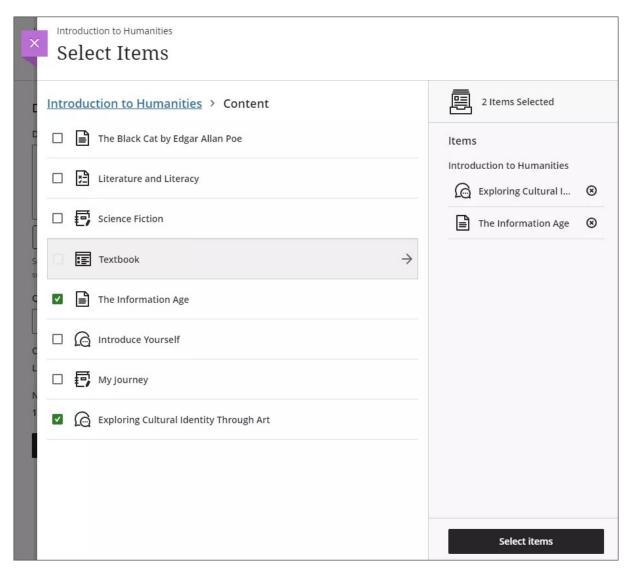
You have several ways to customize the AI Conversations that the AI Design Assistant generates.

- Enter a description (limited to 2000 characters) to narrow the focus of the conversation
- Select the conversation type

- Socratic questioning
- o Role-play
- o **Inspire me!** provides conversations of both types
- Select or deselect the creation of AI Conversation titles, AI personas, and reflection questions
- Adjust the complexity of the AI Conversation
- Select whether or not you want to generate a title
- Select **Advanced options** to change the output language

Optionally, you can select which course items you'd like the AI Design Assistant to provide context for AI Conversations. Select **Select course items** to start.

Select any course content item to include it in the context for your discussion.



You can select a folder or learning module to include items from them. When you've finished choosing items for context, select **Select items** to return to question generation.

Once you've finalized your settings, select **Generate**. Review each Al Conversation for accuracy and bias. Choose the Al Conversation you'd like to add to your course, then select **Add**.

File types supported by the context picker include PDF, Word, PowerPoint, text, RTF, and HTML.

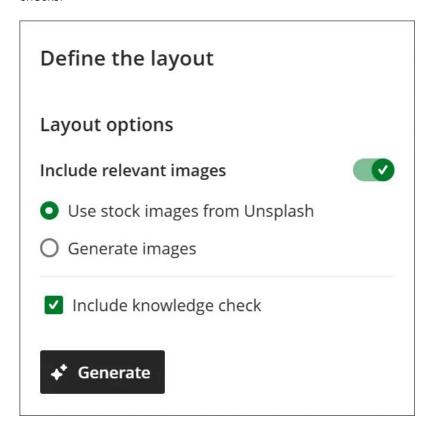
#### **Generate Document layouts**

You can use the AI Design Assistant to design attractive layouts for Documents that include images, knowledge checks, and helpful headings.

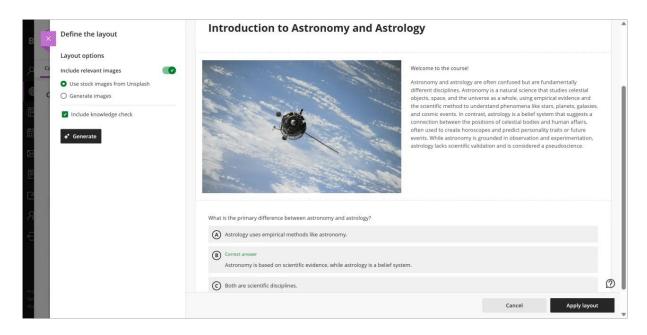
When you're inside a Document, select **Edit Document** to enter the editing mode. Then, select the **Suggest Document Layout** button.



You control whether the AI Design Assistant includes images. You can use stock images from Unsplash or generate images. You can also select or deselect the option to include knowledge checks.



Select **Generate** when you've finalized your settings. Your Document now has a new layout, including any extra features you selected.



# Supported output languages for AI workflows

The AI Design Assistant can produce outputs in many languages:

- Arabic
- Azerbaijani
- Catalan
- Chinese, Simplified
- Chinese, Traditional
- Croatian
- Czech
- Danish
- Dutch
- English, American
- English, Australian
- English, British
- French
- French, Canadian
- German
- Greek
- Hebrew

- Italian
- Irish
- Japanese
- Korean
- Malay
- Norwegian, Bokmål
- Norwegian, Nynorsk
- Polish
- Portuguese, Brazilian
- Portuguese, Portuguese
- Russian
- Slovenian
- Spanish
- Swedish
- Thai
- Turkish
- Ukrainian
- Welsh