

5.2.1 Intended Learning Outcomes (ILOs)

For guidance on developing strong ILOs, refer to [Chapter 2.2 - Intended Learning Outcomes \(ILOs\)](#)

In the Learning Design Studio (LDS), there are four categories of Intended Learning Outcomes (ILOs):

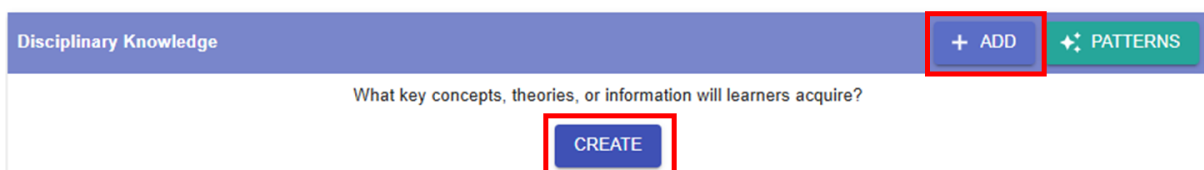
- **Disciplinary Knowledge:** The core concepts, theories, facts, and frameworks that are recognized and developed within a particular field or area of study.
- **Disciplinary Skills:** The specific techniques, methods, and competencies associated with a particular field or area of study.
- **Generic Skills:** The broad abilities that help people succeed in education, work, and daily life, regardless of a particular field or area of study.
- **Values & Attitudes:** The beliefs, principles, and dispositions that guide a person's behavior, decision-making, and interactions with others.

Adding a New ILO

There are two ways to add a new ILO: (1) writing it yourself, or (2) using the ILO patterns.

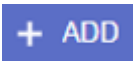

1. Adding a New ILO - Writing it Yourself

- You will write the full ILO to indicate what students is expected to achieve as a result of the learning process.



The screenshot shows a user interface for adding a new ILO. At the top, there is a blue header bar with the text "Disciplinary Knowledge" on the left. On the right side of this bar, there are two buttons: a blue button with a white plus sign and the text "+ ADD", and a green button with a white plus sign and the text "PATTERNS". Below the header bar is a white text input field with the placeholder text "What key concepts, theories, or information will learners acquire?". At the bottom center of this input field, there is a blue button with the text "CREATE". Red boxes highlight the "+ ADD" button and the "CREATE" button.

Figure 5.3: Adding a New ILO

- If you have not added any ILOs before, you can click the  or  button to add a new ILO.

Designing for the Wise

Intended Learning Outcomes / Cre...

Category*

Disciplinary Knowledge

Bloom's Taxonomy Level* ?

ILO Statement*

Identify the unique needs and challenges that elderly face in their daily lives.



ADD SUB-ILOS

SAVE AND ADD ANOTHER

SAVE

CANCEL

Figure 5.4: Interface of the ILO Builder (1)

- We will review each field in the ILO Builder below.

1. Subject/Discipline(s)

Subject/Discipline(s)



Science Education



Technology Education

Figure 5.5: Interface of the ILO Builder (2)

- Select the appropriate discipline(s) for each ILO as needed.

2. Category

Category*

Disciplinary Knowledge

Disciplinary Knowledge

Disciplinary Skills

Generic Skills

Values & Attitudes

Figure 5.6: Interface of the ILO Builder (3)

- Select the category of ILO: **Disciplinary Knowledge, Disciplinary Skills, Generic Skills, or Values & Attitudes.**

3. Bloom's Taxonomy Level

Bloom's Taxonomy Level ?

Understand ▲

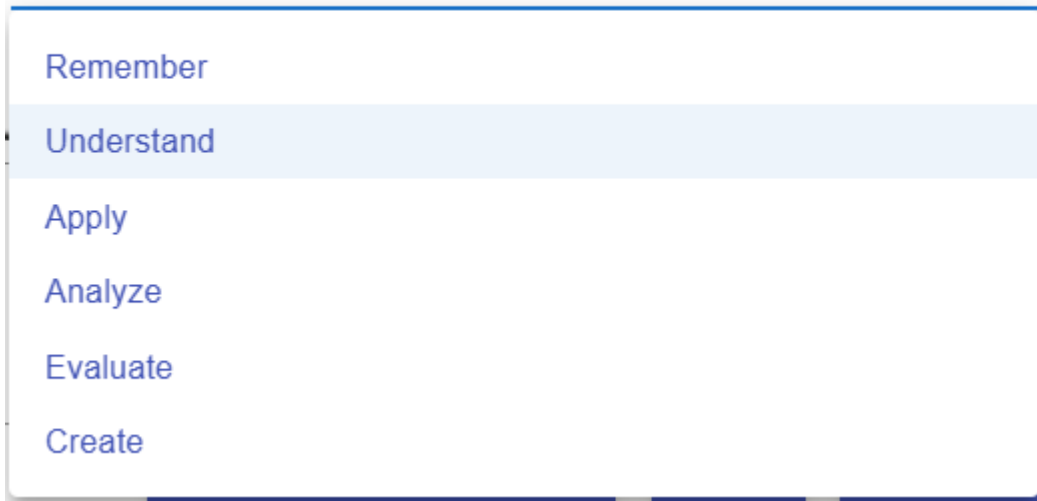


Figure 5.7: Interface of the ILO Builder (4)

- Select the Bloom's Taxonomy level that best reflects the intended skill, knowledge, or value for this outcome (e.g., Remember, Apply, Evaluate).

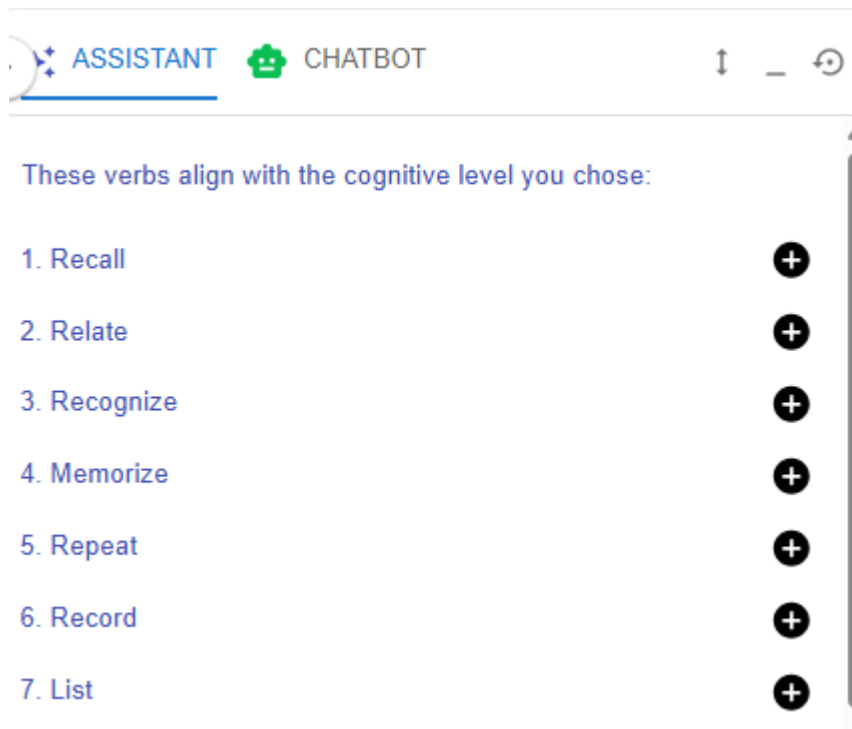


Figure 5.8: Writing a ILO with the Learning Design Facilitator

- After selecting the Bloom's Taxonomy level, the Learning Design Facilitator will recommend suitable action verbs to help you formulate your ILOs.
- Choose the appropriate action verb that best reflects the skill, knowledge, or value targeted by your ILO.

4. ILO and Learning Design Facilitator

ILO Statement *

Identify the unique needs and challenges that elderly face in their daily lives.



Figure 5.9: Interface of the ILO Builder (5)

Click the Learning Design Facilitator button  to request feedback from the chatbot on your ILO.

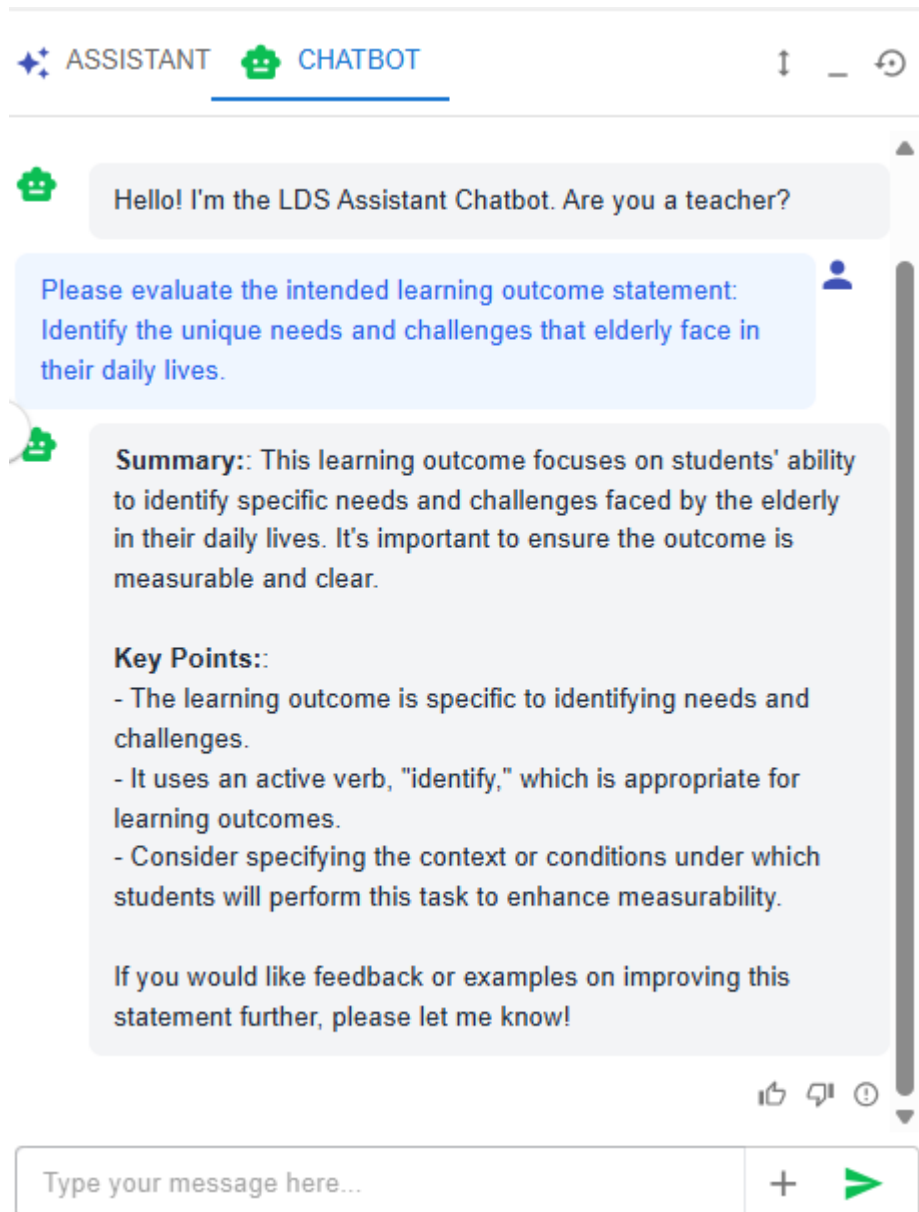


Figure 5.10: Evaluating a ILO with the Chatbot

5. Sub-ILO(s)

Sub-ILO(s) 

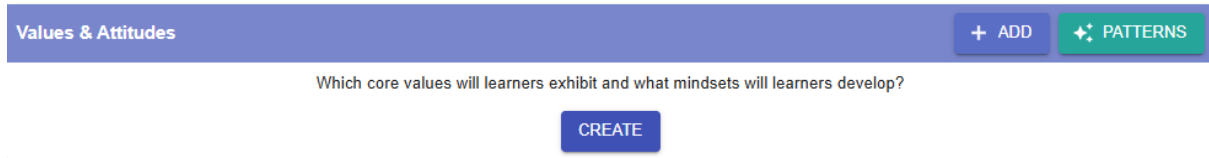
Bloom's Taxonomy Level  Statement * 

Figure 5.11: Interface of the ILO Builder (6)

- To provide greater clarity, an ILO can be subdivided into more detailed sub-ILOs as needed.

2. Adding a New ILO - Use the ILO Pattern

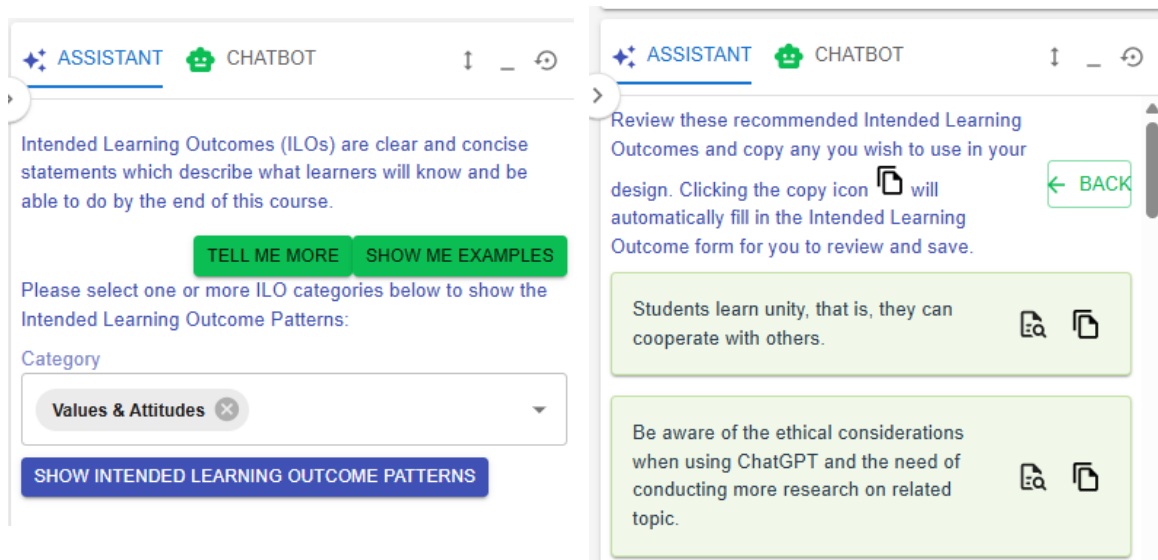
- In addition to writing your own ILO, you may use our pre-defined pattern.



The screenshot shows a form titled "Values & Attitudes" with a blue header bar. On the right side of the header, there are two buttons: "+ ADD" and "PATTERNS". Below the header, the text reads "Which core values will learners exhibit and what mindsets will learners develop?". At the bottom center of the form is a blue "CREATE" button.

Figure 5.12: Intended Learning Outcomes - Values & Attitude

- For example, if you want to create an ILO for the **Values & Attitude** category, we can create one by using the ILO patterns.





The first screenshot shows the chatbot interface with the text: "Intended Learning Outcomes (ILOs) are clear and concise statements which describe what learners will know and be able to do by the end of this course." Below this text are two buttons: "TELL ME MORE" and "SHOW ME EXAMPLES". The text continues: "Please select one or more ILO categories below to show the Intended Learning Outcome Patterns:". There is a "Category" dropdown menu with "Values & Attitudes" selected. At the bottom is a blue button labeled "SHOW INTENDED LEARNING OUTCOME PATTERNS".

The second screenshot shows the chatbot interface with the text: "Review these recommended Intended Learning Outcomes and copy any you wish to use in your design. Clicking the copy icon will automatically fill in the Intended Learning Outcome form for you to review and save." There is a "BACK" button. Below the text are two example ILO patterns, each with a copy icon:

- Students learn unity, that is, they can cooperate with others.
- Be aware of the ethical considerations when using ChatGPT and the need of conducting more research on related topic.

Figure 5.13: The ILOs Patterns in the LDS Facilitator

- After selecting the targeted ILO category in the Learning Design Facilitator, click the **"SHOW INTENDED LEARNING OUTCOME PATTERNS"** button to view suggested patterns. Alternatively, you can click the  button to instantly activate the pattern list.
- By clicking the  button, you can explore the details of the targeted ILO pattern.

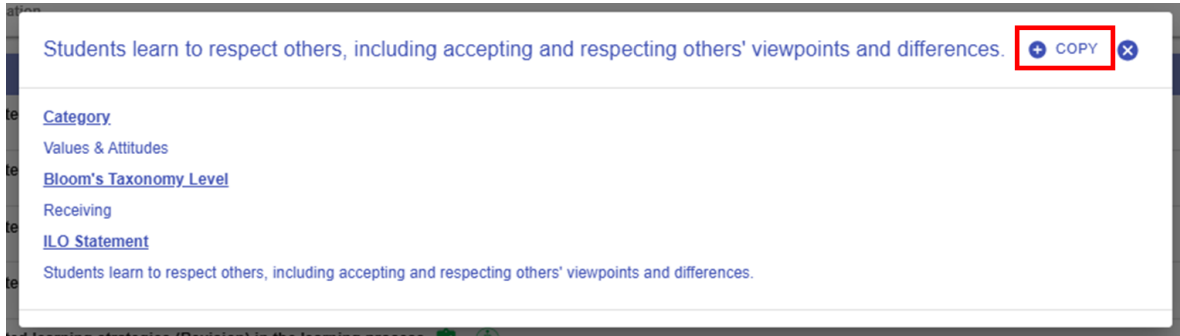



Figure 5.14: Details of the Targeted ILO Pattern (1)

- You can use the targeted ILO pattern directly by clicking **"COPY"** button in the pop-up window, or by clicking the  button in the Learning Design Facilitator. The ILO pattern details will be auto-filled into the LDS.

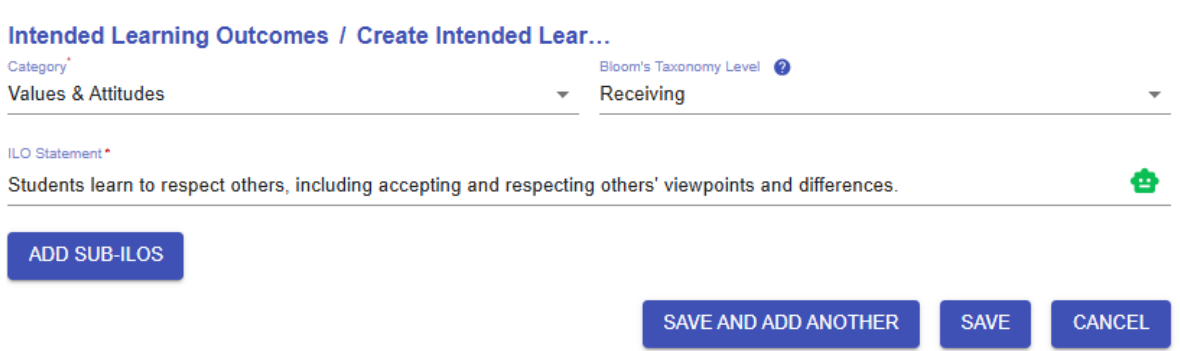


Figure 5.15: Details of the Targeted ILO Pattern (2)

- You can edit the details of the targeted ILO pattern in the ILO builder if needed.

Disciplinary Knowledge		+ ADD	✦ PATTERNS
Remember	Identify the unique needs and challenges that elderly face in their daily lives.	!	🌱

Disciplinary Skills		+ ADD	✦ PATTERNS
Evaluate	Rate the solutions with the established assessment criteria	!	🌱
Create	Prepare the initial proposal of the product design	!	🌱
Create	Create the assessment criteria to rate design solutions	!	🌱
Create	Create prototypes to showcase the ability of turning theoretical solutions into tangible products	!	🌱

Generic Skills		+ ADD	✦ PATTERNS
Apply	Apply collaborative skills to complete tasks	!	🌱

Values & Attitudes		+ ADD	✦ PATTERNS
Responding	Demonstrate openness to elderly perspectives in design discussions	!	🌱
Organization	Value the suggestions of others and be able to find the optimal among all options	!	🌱

Figure 5.16: An example of a completed ILO section

🔄Revision #15

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