

JSON Coursetune v1.05 Documentation

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Course JSON files

In general, the structure of the course file download contains the following objects:

Root v1.05	Root v1.04
<ul style="list-style-type: none"> → courses → bundles → los → details → mappedOutcome → outcomes → c_layers → outcomesets → activities → engagements_active → formatVersion: 2 	<ul style="list-style-type: none"> → los → bundles → c_layers → activities → engagements_active → courses → formatVersion: 1 (optional line)

Note: Each design element (LOs, bundles, c-layer elements, activities, courses, outcomes, outcomesets) has a unique design identifier in this file.

los			learning objective object (LO object)
	design identifier		identifier for design element
		id	learning objective identifier given by institution
		description	learning objective full text
		savedwords	two-word abbreviation for learning objective
		details	array that holds identifiers of LO details associated with the learning objective
		mapped	array that holds mapping relations between the LO and outcomes Note: The item in the array is an id (design identifier) of an object in mappedOutcome array.
		scale_irma	IRMA scale value (I, R, M)
		scale_3bloom	3-level simplified Bloom scale value (1-3)
		scale_6bloom	6-level Bloom's verb scale value (1-6)

		scale_complexity4pt	Marzano Complexity scale value (1-4)
		lo_webb_dok	Webb's Depth of Knowledge scale value (1-4)
		lo_fink_taxonomy	Fink taxonomy scale value (1-6)
		lo_proficiency_levels	Proficiency Level scale value (E, D, C, M)

Note: [Details about various LO scales can be found in Coursetune documentation.](#)

bundles			bundles (units, modules, weeks, chapters, sections, etc.) - the organization for learning delivery
	design identifier		identifier for design element
		id	bundle identifier given by institution
		name	short name used to identify the bundle
		description	full description of the bundle
		los	array that holds the order and identifiers for learning objectives that sit within this bundle (item is the index, value is the coursetune identifier for the LO)
		mapped	array that holds mapping relations between the bundle and outcomes Note: The item in the array is an id (design identifier) of an object in mappedOutcome array.

c_layers			c-layer (competencies, CLOs, course goals, etc) - the organization for big picture goals for the course
	design identifier		identifier for design element
		id	c-layer identifier given by institution
		name	short name used to identify the c-layer element
		description	full description of the c-layer element
		los	array that holds the order and identifiers for learning objectives that sit within this bundle (item is the index, value is the coursetune identifier for the LO)

		mapped	array that holds mapping relations between the c-layer and outcomes Note: The item in the array is an id (design identifier) of an object in mappedOutcome array
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engage ments_ active			active engagement type on an activity
	design identifier		identifier for design element
		property	If there this activity has property type active engagement, then this string field holds the types of active engagement (it is multi-select)

activities			learning and assessment activities
	design identifier		identifier for design element
		name	name of the individual activity
		description	text description of the activity
		type	the type of activity (chosen from the dropdown list of activities)
		modality	the modality of the activity (chosen from the dropdown list of activity modalities)
		engagement	the type of engagement of the activity (chosen from the dropdown list of activity engagement types - if "active" is chosen, then there are further choices in a multiselect)
		grading	the type of grading for the activity (chosen from the dropdown list of grading types)
		averageTime	average/planned time for the activity as a decimal design element identifier representing hours
		los	array consisting of the learning objectives coursetune identifiers associated with this activity

		engagement_active	array consisting of coursetune identifiers associated with engagement type: <ul style="list-style-type: none"> ● Interaction with expert ● Interaction with peers ● Interaction with community ● Individual active learning ● Digital-mediated learning
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courses			this holds properties associated with the course
	design identifier		identifier for design element
		id	course identifier given by the institution
		name	name of course
		bundletype	what the bundles are called in this course (units, modules, weeks, etc)
		state	One of "" (empty string, not set) / "0" (c-layer) / "1" (bundle). Defines preferred view mode on switching from program to course level
		description	course description
		credits	design element identifier of credits
		show_bundle_labels	Is the bundle label displayed in this course? (e.g. Unit 1 or Week 3)
		alphabetize_los	Are the LOs alphabetized on the c-layer in this course? (never alphabetized on the bundle layer)
		repeated_los_with_red_text	Are repeated LOs shown in red in the c-layer in this course?
		bundles	array that holds the order and identifiers for bundles that sit within this course (item is the index, value is the coursetune identifier for the bundle)
		c_layers	array that holds the order and identifiers for c-layer elements that sit within this course (item is the index, value is the coursetune identifier for the c-layer element)
		outcomesets	array that holds course outcome sets (identifiers) for

			<p>this course.</p> <p>Note: Might include outcomesets from higher levels of hierarchy (program and institution in course file, institution in program file) if at least one lo is mapped to such an outcome.</p>
		loscale	<p>Indicates which LO scale is being displayed in this course. Note that this uses a generic name. Here's the mapping:</p> <ul style="list-style-type: none"> lo_scale1 = IRMA lo_scale2 = Marzano Complexity lo_scale3 = Simplified Bloom lo_scale4 = Bloom Verbs lo_scale5 = Webb Depth-of-knowledge lo_scale6 = Fink Taxonomy
		activities	<p>array that holds identifiers for activities that sit within this course (item is the index, value is the coursetune identifier for the activity)</p>

outcomes			outcomes (listed under the outcome set in the right-hand Mappings panel)
	design identifier		identifier for design element
		id	outcome identifier given by institution
		name	short name used to identify the outcome
		description	full description of the outcome
		realld	Internal identifier. The value is present if the outcome is taken from higher level of hierarchy into lower level file (for example, program level outcome and course file). It is used to avoid duplication of outcomes on import.
		level	DataProgram / DataInstitution. Is present under the same conditions as realld

outcome sets			Outcome sets (listed in the right-hand Mappings panel)
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	design identifier		identifier for design element
		id	Outcome set identifier given by institution
		name	short name used to identify the outcome set
		description	full description of the outcome set
		outcomes	array that holds the identifiers for outcomes included in this set
		realId	Internal identifier. The value is present if the outcomeset is taken from higher level of hierarchy into lower level file (program level outcome and course file). It is used to avoid duplication of outcomesets on import.
		level	DataProgram / DataInstitution. Is present under the same conditions as realId

mappedOutcome			Mapping relation between an outcome referenced by the mappedOutcome and the item that holds the mappedOutcome in mapped array
	design identifier		identifier for design element
		outcome	Identifier of an outcome
		state	Mapping state: "2" - mapped (applicable for los / bundles / c-layers). Lo is mapped to the outcome or all los of bundle / c-layer are mapped to the outcome. "3" - both mapped and unsure (applicable for bundles / c-layers). Some but not all los of the entity are mapped to the outcome

Program JSON files

In general, the structure of the program file download contains the following objects:

Root v1.05	Root v1.04
<ul style="list-style-type: none"> → programs → courses → bundles → los → details → mappedOutcome → outcomes → c_layers → outcomesets → activities → engagements_active → formatVersion: 2 	<ul style="list-style-type: none"> → los → bundles → c_layers → outcomes → outcomesets → engagements_active → activities → courses → programs → formatVersion: 1 (optional line)

Note: Each design element (programs, courses, bundles, los, details, mappedOutcome, outcomes, c_layers, outcomesets, activities, engagements_active) has a unique design identifier in this file.

Descriptions match to the ones in the course section, with these additions.

programs			this holds properties associated with the program
	design identifier		identifier for design element
		id	program identifier given by the institution
		name	name of program
		icon	File name of given icon (e.g. p_16)
		courses	array that holds identifiers for courses within this program
		default_state	Default state of the program's courses. See state of course.

		default_bundle_type	Default bundle type "" (empty string) - bundle "MODULE" - module "UNIT" - unit "CHAPTER" - chapter "SUBUNIT" - subunit "SECTION" - section "WEEK" - week "PROJECT" - project "TOPIC" - topic "SUBTOPIC" - subtopic
		outcomesets	array that holds identifiers for program outcome sets that are associated with this program. Note: Might include outcomesets from higher levels of hierarchy (program and institution in course file, institution in program file) if at least one lo is mapped to such an outcome.

Institution JSON files

In general, the structure of the institution file download is the same as the program file download (just containing more data and possibly outcome sets not specifically associated with courses or programs). The file contains the following objects:

Root v1.05	Root v1.04
<ul style="list-style-type: none"> → institutions → programs → courses → bundles → los → mappedOutcome → outcomes → details → c_layers → paths → outcomesets → activities → engagements_active → courseresferences → formatVersion: 2 	<ul style="list-style-type: none"> → los → bundles → c_layers → outcomes → outcomesets → engagements_active → activities → courses → programs → formatVersion: 1 (optional line)

institutions			this holds properties associated with the institution
	design identifier		identifier for design element
		name	name of program
		programs	Array of program identifiers
		outcomesets	array that holds identifiers for institution outcome sets that are associated with this institution.
		c_layer	Default name of c-layer: 0 - Competency 1 - Course Goal 2 - Course Learning 3 - Course Learning 4 - Course Outcome

			5 - Course Objective 6 - Cluster"
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Unlike programs and course files, the institution file doesn't replace shared courses with the content of the shared course. It preserves the relationship. This causes courses to get new fields to hold the relationship to shared courses (whether one is there or not).

courses			this holds properties associated with the course
	design identifier		identifier for design element
		references	Array of references to courses for which this course is the source one. The array is empty ([]) if the course isn't reused in other programs. Refers to courserferences objects set.
		source	Id of the ref to the source course. Always exists. The ref fields are empty if the course isn't a shared one. Refers to paths objects set.

paths			this holds paths like program/course
	design identifier		identifier for design element
		program	Array of 0 or 1 elements. If it contains an element, the element is id of a program.
		course	Array of 0 or 1 elements. If it contains an element, the element is id of a course.

coursereferences			this holds paths like program/course
	design identifier		identifier for design element
		course	id of a program.
		program	id of a course.

Note: Each design element (institutions, programs, courses, bundles, los, mappedOutcome, outcomes, details, c_layers, paths, outcomesets, activities, engagements_active, coursereferences) has a unique design identifier in this file.