Develop notion of course learnpaths sequencing

This should reuse the code that uses the sequence_* tables in this file, mostly:
https://github.com/beeznest/chamilo-lms-icpna/blob/stage/main/inc/lib/sequence.lib.php but should also allow for courses and sessions to be sequenced.

Tables definitions can be found in https://github.com/beeznest/chamilo-lms-icpna/blob/stage/main/install/db_main.sql around lines 3200

In particular, to allow sequences to define courses and sessions as main elements, the sequence_row_entity table should allow for null values for row_id, course_id and session_id.

This will be used in a practical case soon, and requires an admin interface to design courses and sessions sequences, with a user view that shows the sequencing with a maximum of 3 columns, like this:

Col1   Col2   Col3
C1
C2
C3   C4
C5
C6   C7
C8   C9

Where:
- C2 (course 2 or session 2) can only be entered/subscribed to if C1 (course 1 or session 1) has been "completed"
- C3 and C4 can only be entered if C2 has been "completed"
- C5 can only be entered if C3 and C4 have been "completed"
- C6 and C7 can only be entered if C5 has been "completed"
- C8 can only be entered if C6 has been completed
- C9 can only be entered if C7 has been completed

The notion of "completed" can be defined like this:

- C2 identified not only a course, but also a specific gradebook_category_id inside this course
- When the gradebook category is completed by the student to the point of satisfying the condition of granting a certificate to the student, then C2 is considered "completed"
- When C2 is a session, C2 is only considered completed once all the courses inside this session have been completed

The development mentioned above already works and has been tested on a production system, but it only allows to set dependencies between some elements inside one course, and it needs to be updated to comply with the new doctrine changes.

#2 - 19/04/2015 14:22 - Julio Montoya
I added the table creation/update and the library.

#3 - 20/04/2015 04:25 - Yannick Warnier
And I translated the Spanish terms to English.

The next step is to update the structure so sequences can be configured between courses.

Then we need to add the interface to configure these sequences.

Then we need to alter the courses subscription behaviour so that it can follow the sequencing configuration.

Step by step. Let's start with the next step, then we'll have more visibility upon the next step.

#4 - 23/06/2015 00:20 - Yannick Warnier
- Target version changed from 1.10.0 to 2.0

OK, this went a little off-course. We now have sessions sequencing with other tables than those used before. I'm moving this task to 2.0 as there is still work to do on this (to enable more resources to be sequenced)

#5 - 01/02/2016 00:58 - Yannick Warnier
- Target version changed from 2.0 to 3.0