CM Feature Matrix 2.0

General Information

The KS Curriculum Management Module provides the ability to propose, create, modify and retire learning experiences that are part of an institution's sanctioned curriculum.

Definitions

Catalog	**The collection of approved learning experiences that an institution may offer to its students.**
Course	**A learning experience that imparts education through a series of activities such as lectures, labs, recitations, etc. within a well-defined time period; it results in an assessment (e.g., grade) and an outcome (e.g., credits).**
Credit Course	A course which, upon successful completion, results in the award of academic credit.
Non-Credit Course	A course which, upon successful completion, results in the award of non-academic units, such as Continuing Education Units.
Programs	**A prescribed grouping of learning experiences that leads to a recognized body of knowledge; the end result of a completed program may be an acknowledged level of accomplishment (e.g. a major, minor or concentration) or a credential (e.g. certificate, degree, etc.)**
Core Program	A prescribed grouping of courses that is required for all students as a foundation of general knowledge. Also known as General Education
Credential Program	A prescribed grouping of learning experiences that leads to a credential.
Baccalaureate	An organized curriculum leading to a baccalaureate degree in a major area of study.
Masters	A postgraduate academic program typically designed for learners after the completion of a baccalaureate program
Doctoral	A postgraduate academic program typically representing the highest level of study in a field; designed for those wishing to conduct research in that field
Professional	A postgraduate academic program typically representing the highest level of study in a field; designed for those wishing to practice in that field
Certificate	An organized curriculum leading to a certificate in an area of study.

Academic Program	aka, Major; An organized curriculum offered as a major area of study recognized as an academic discipline by the higher education community as part of a credential program
Minor	An organized curriculum offered as part of an individual student's credential program and which enhances or complements the credential to be awarded in a manner that leads to specific educational or occupational goals.
Specializations	Variations and/or refinements of an Academic Program that lead to specific educational or occupational goals.
Other Learning Experiences	
Project	An individualized student learning experience designed to culminate in a "product" that synthesizes the learning obtained by the student. Examples of projects include theses, dissertations, research projects, and/or capstone projects. An important attribute of the project is the supervisory committee and associated rules regarding its make-up. Typically, projects will be associated with degree and certificate programs.
Experiential Learning	An individualized student learning experience that emphasizes learning by "doing" rather than "producing." Examples include service learning, internships, clerkships, and co-operative education.
Tests	A procedure for evaluating learning of student; may be used to award credit and/or fulfill a requirement.
Course Set	**A set composed of one or more Courses**
Fixed Course Set	A Course Set whose elements are defined explicitly by the course number, e.g. (MATH101, MATH102, MATH103)
Dynamic Course Set	A Course Set whose elements are defined implicitly by some criteria, e.g. (100-level math courses); were a new 100-level MATH course be added to the curriculum, it would automatically be added to this course set as well.
Single-Use Course Set	A single-use Course Set is one which is created 'on the fly' when building a rule and is not available for use in other rules.
Reusable Course Set	A reusable Course Set is one which is created prior to building a rule, named, and saved, and is available for use in other rules.
Proposal	**A description of a learning experience, typically authored by faculty, that is submitted for review by the appropriate curricular oversight organization; if approved, the learning experience becomes part of the institution's curriculum**
Learning Objective	**A statement, usually written by a faculty member, that describes the knowledge, skills, or abilities that a student would expect to gain by participating in a learning experience**
Single-Use Learning Objectives	Learning Objectives that are defined within the context of a specific Course or Program and are not maintained as part of a centralized inventory.
Governed Learning Objectives	Learning Objectives that are defined by a group of people external (eg. accreditation bodies) or internal (eg. a department, or an organization of biology, chemistry, and physics departments) to the institution. These Learning Objectives may only be modified by the internal organization of people who entered them with the expectation that these centrally managed, 'governed' learning objectives may be imported directly into courses or programs.

At-a-Glance: Delivered Learning Experiences and Associated Features

	Course	Program*

Proposal Processes		
Create via Proposal Process	⭐	❌
Modify via Proposal Process	⭐	⭐
Retire via Proposal Process	⭐	❌
Administrative Processes		
Create via Administrative Screens	⭐	⭐
Modify via Administrative Screens	⭐	⭐
Retire via Administrative Screens	⭐	❌
Versioning		
Modify with Versioning	⭐	⭐
Modify without Versioning	⭐	⭐
Search/Browse/View		
Search for Proposal	⭐	⭐
Search Catalog	⭐	⭐
Browse Catalog	⭐	⭐
View Catalog	⭐	⭐
Learning Objectives		
Attach Learning Objectives	⭐	⭐
Sets		
Fixed, Single-Use Sets	⭐	⭐

Dynamic and Reusable Sets	⭐	❌
Analyses		
Dependency Analysis	⭐	❌

*Not all features marked as delivered are available for every program type

Legend
⭐ Reference implementation delivered via UI in CM 2.0
❌ No reference implementation delivered in CM 2.0

Feature Matrix

Learning Experiences

Type	Supported by Class I Services	Supported by Class II Services
Course		
Credit Course	⭐	⭐
Non-Credit Course	⭐	❌
Programs		
Core Program	⭐	⭐
Credential Program - Baccalaureate	⭐	⭐
Credential Program - Masters	⭐	⭐
Credential Program - Doctoral	⭐	⭐
Credential Program - Professional	⭐	❌
Credential Program - Certificate	⭐	❌
Academic Program (Major)	⭐	⭐
Minor	⭐	❌

Specializations	⭐	⭐
Other		
Project	⭐	❌
Experiential Learning	⭐	❌
Tests - Institutionally administered	⭐	❌

Legend

⭐ Feature supported/delivered in CM 2.0

❌ Feature not supported/delivered

Definitions

- **Supported by Services::** Feature is supported by Service Design
    - **Supported by Class I Services::** Features is supported by Atomic Services
    - **Supported by Class II Services::** Feature is supported by Composed Services
- **Supported by KS Rice::** Featured supported by KS Rice products KIM and/or KEW
- **Delivered in UI::** A reference implementation of the Feature is delivered in the UI

Courses

High Level Feature	Feature	Supported by Services	Delivered in UI
Ability to Create a Course	Ability to **create** a Course **through a #proposal process**	⭐	⭐
	Ability to **create** a Course **through administrative screens**	⭐	⭐
Ability to Define a Course	Ability to specify key **Identifying Information**	⭐	⭐

	Ability to specify key **Descriptive Information**	★	★
	Ability to specify alternate identifiers, **Cross-Listing** and **Version Codes**	★	★
	Ability to specify a **Joint Offering**	★	★
	Ability to specify key **Dates and Terms**	★	★
	Ability to identify Course **Resources** - Faculty	★	★
	Ability to identify Course **Resources** - Other	✖	✖
	Ability to define multiple **Formats and Activities**	★	★
	Ability to define multiple Course **Grading and Credit Options**	★	★
	Ability to define Course **#Learning Objectives**	★	★
	Ability to define Course **Requisites**	★	★
	Ability to specify **Organizational Relationships**	★	★
	Ability to specify **Financial** information	★	★
	Ability to attach **Supporting Documentation**	★	✖
	Ability to attach **Comments**	★	✖
Ability to Manage a Course	Ability to **modify** a Course **through a #proposal process**	★	★
	Ability to **modify** a Course **through administrative screens**	★	★
	Ability to **retire** a Course **through a #proposal process**	★	★
	Ability to **retire** a Course **through administrative screens**	★	★
Ability to Version a Course	Ability to **version** a Course as a result of a modification	★	★
	Ability **not to version** a Course as a result of a modification	★	★
Ability to Activate a Course	Ability to **activate** an approved Course version	★	★
Ability to Publish a Course	Ability to publish approved Course versions in a **centralized catalog**	★	★
	Ability to designate **other publishing targets** (i.e., not the catalog)	★	✖
	Ability to **define information** to be published by target	★	✖

Ability to Browse for a Course	Ability to **browse** the catalog for a Course by Subject Area or Organization	★	★
	Ability to **browse** the catalog for a Course by *other* attributes (i.e ., not Subject Area or Organization)	★	✖
Ability to Search for a Course	Ability to **search** for a Course	★	★
Ability to View a Course	Ability to **view** a Course	★	★
	Ability to select from **multiple views** of a Course (i.e., at-a-glance, detailed and catalog)	★	★
	Ability to **view the version history** of a Course	★	★
	Ability to **print** details of a Course	N/A	★
	Ability to **export** details of a Course	N/A	★

Programs

Process	Feature	Supported by Services	Delivered in UI
Ability to Create a Program	Ability to **create** a Program **through a #proposal** process	★	✖
	Ability to **create** a Program **through administrative screens**	★	★
Ability to Define a Program	Ability to specify key Program **Identifying Information**	★	★
	Ability to specify key Program **Descriptive Information**	★	★
	Ability to specify key Program **Dates and Terms**	★	★
	Ability to identify Program **Resources** - Faculty	★	★
	Ability to define Program **#Learning Objectives**	★	★
	Ability to define Program **Entrance, Satisfactory Progress and Completion Requirements**	★	★
	Ability to specify **Organizational Relationships**	★	★
Ability to Manage a Program	Ability to **modify** a Program **through a #proposal process**	★	★
	Ability to **modify** a Program **through administrative screens**	★	★
	Ability to **retire** a Program **through a #proposal** process	★	✖
	Ability to **retire** a Program **through administrative screens**	★	✖

Ability to Version a Program	Ability to **version** a Program as a result of a modification	⭐	⭐
	Ability **not to version** a Program as a result of a modification	⭐	⭐
Ability to Activate a Program	Ability to **activate** an approved Program version	⭐	⭐
Ability to Publish a Program	Ability to publish approved Program versions in a **centralized catalog**	⭐	⭐
	Ability to designate **other publishing targets** (i.e., not the catalog)	⭐	❌
	Ability to **define information** to be published by target	⭐	❌
Ability to Browse for a Program	Ability to **browse** the catalog for a Program	⭐	⭐
Ability to Search for a Program	Ability to **search** for a Program	⭐	⭐
Ability to View a Program	Ability to **view** a Program	⭐	⭐
	Ability to **view the version history** of a Program	⭐	⭐
	Ability to **print** details of a Program	N/A	⭐
	Ability to **export** details of a Program	N/A	⭐

Proposals

High Level Feature	Feature	Supported by Services	Supported by KS Rice	Delivered in UI
Ability to Start a Proposal	Ability to start a Proposal to **create a Course** from **blank**	⭐	N/A	⭐
	Ability to start a Proposal to **create a Course** from a **copy** of an another approved Course	⭐	N/A	⭐
	Ability to start a Proposal to **create a Course** from a **copy** of an another proposed Course	⭐	N/A	⭐
	Ability to start a Proposal to **create a Course** from a **template**	⭐	N/A	❌
	Ability to start a Proposal to **modify a Course** from a copy of the Course	⭐	N/A	⭐
	Ability to start a Proposal to **modify a Program** from a copy of the Program	⭐	N/A	⭐
Ability to Save a Proposal	Ability to **save and return** to a Proposal	⭐	N/A	⭐

	Ability to **cancel** a Proposal	⭐	N/A	⭐
Ability to Collaborate on a Proposal	Ability to attach **Supporting Documents** to a Proposal	⭐	N/A	⭐
	Ability to add Collaborators to **View, Comment and/or Edit** a Proposal	N/A	⭐	⭐
	Ability to **notify** Collaborators that their participation is requested	N/A	⭐	⭐
	Ability to **remove** Collaborators from a Proposal	N/A	⭐	⭐
Ability to Review a Proposal	Ability to specify a workflow based on **Proposal type**	N/A	⭐	⭐
	Ability to specify a workflow based on **Proposal data**	N/A	⭐	❌
	Ability to **submit** a Proposal to workflow	N/A	⭐	⭐
	Ability to **withdraw** a Proposal from workflow	N/A	⭐	⭐
	Ability to assign reviewers **View, Comment and/or Edit** proposal permissions	N/A	⭐	⭐
	Ability to **Request a Decision** from a reviewer	N/A	⭐	⭐
	Ability to **notify** reviewers of a pending review/decision request	N/A	⭐	⭐
	Ability of reviewers to **Enter a Decision** on the proposal	N/A	⭐	⭐
	Ability of reviewers to determine the **status** of a proposal	N/A	⭐	⭐
	Ability to view the **History** of the proposal as it moves through the review process	⭐	❌	❌
	Ability to record the final **Outcome** of the review process	⭐	⭐	⭐
Ability to Group Proposals	Ability to **group** proposals	❌	N/A	❌
	Ability to **review grouped proposals** simultaneously	❌	N/A	❌
Ability to Archive a Proposal	Ability to **archive** a proposal	⭐	N/A	❌

Search for a Proposal	Ability to **Search** for Proposals	★	N/A	★
Ability to View a Proposal	Ability to **view** a Proposal	★	N/A	★
	Ability to **print** a Proposal	N/A	N/A	★
	Ability to **export** details of a Program	N/A	N/A	★

Course Set

High Level Feature	Feature	Supported by Services	Delivered in UI
Create a Course Set	Ability to create a **fixed or dynamic** Course Set	★	★
	Ability to create a **single-use and/or reusable** Course Set	★	★
	Ability to create Course Set that contains **proposed or approved** courses	★	★
	Ability to create a Course Set that contains **courses and/or other Course Sets**	★	★
Manage a Reusable Course Set	Ability to **modify** reusable Course Sets	★	★
	Ability to **retire** reusable Course Sets	★	✗
	Ability to **delete** reusable Course Sets	★	✗
	Ability to **version** reusable Course Sets	✗	✗

Learning Objectives

High Level Feature	Feature	Supported by Services	Delivered in UI
Ability to Define Learning Objectives	Ability to **author** Learning Objectives	★	★
	Ability to **edit** Learning Objectives	★	★
	Ability to **delete** Learning Objectives	★	★
	Ability to **search for, copy and then edit** Learning Objectives	★	★
Ability to Organize Learning Objectives	Ability to **order** Learning Objectives	★	★
	Ability to create a **hierarchy** of Learning Objectives with levels and sublevels	★	★
	Ability to **create** Learning Objectives **categories**	★	★

	Ability to maintain an **inventory** of Learning Objectives **categories**	⭐	⭐
	Ability to manage an inventory of **Governed Learning Objectives**	❌	❌
	Ability to **categorize** Learning Objectives	⭐	⭐
Ability to Attach Learning Objectives	Ability to attach Learning Objectives to a **Course**	⭐	⭐
	Ability to attach Learning Objectives to a **Course Activity**	⭐	❌
	Ability to attach Learning Objectives to a **Program**	⭐	⭐
Ability to Map Learning Objectives	Ability to **map** Program Learning Objectives to Courses that support them	❌	❌

Analysis

Course

High Level Feature	Feature	Supported by Services	Delivered in UI
Ability to determine the Dependence of Other Courses on a Selected Course	Ability to determine which Courses are **Jointly-Offered** with the Selected Course	⭐	⭐
	Ability to determine which Courses are **Cross-listed** with the Selected Course	⭐	⭐
	Ability to determine which Courses use the Selected Course in a **Prerequisite Rule**	⭐	⭐
	Ability to determine which Courses list the Selected Course in a **Corequisite Rule**	⭐	⭐
	Ability to determine which Courses list the Selected Course in a **Antirequisite Rule**	⭐	⭐
	Ability to determine which Courses list the Selected Course as a **Recommended Preparation**	⭐	⭐
	Ability to determine **Oversight Organization(s)** of the Dependent Courses	⭐	⭐
Ability to determine the Dependence of Programs on a Selected Course	Ability to determine which Programs list the Selected Course as an **Entrance Requirement**	⭐	⭐
	Ability to determine which Programs list the Selected Course as a **Satisfactory Progress Requirement**	⭐	⭐

	Ability to determine which Programs list the Selected Course as a **Completion Requirement**	⭐	⭐
	Ability to determine **Oversight Organization(s)** of the Dependent Programs	⭐	⭐
Ability to determine the membership of a Selected Course in Reusable Course Sets	Ability to determine which Reusable **Fixed Course Sets** contain the Selected Course	⭐	⭐
	Ability to determine which Reusable **Dynamic Course Sets** contain the Selected Course	⭐	❌
	Ability to determine **Oversight Organization(s)** of the Dependent Course Sets	⭐	❌
Ability to access details of the Dependencies	Ability to **filter** the the analysis results	N/A	⭐
	Ability to **view** the Dependent Course from the analysis results	⭐	⭐
	Ability to **view** the Dependent Program from the analysis results	⭐	⭐
	Ability to **view** the Dependent Course Set from the analysis results	⭐	⭐

Program

High Level Feature	Feature	Supported by Services	Delivered in UI
Ability to determine the Dependencies within a Selected Program	Ability to view which Courses associated with the Selected Program are **not owned by the same Oversight Organization** as the Selected Program	⭐	❌
	Ability to determine the **Prerequisite chains for required Courses** in a Selected Program	❌	❌
	Ability to run an analysis of a Select Program based on **Learning Objectives**	❌	❌
Ability to determine the Dependencies across Selected Programs	Ability to view which Courses are **shared across two or more Selected Programs**	⭐	❌

Other

High Level Feature	Feature	Supported by Services	Delivered in UI
Ability to print/export the results of a Dependency Analysis	Ability to **print** the results of a Dependency Analysis	N/A	⭐

	Ability to **export** the results of a Dependency Analysis	N/A	★
Ability to require a Dependency Analysis as part of a Modify or Retire Course Proposal	Ability to **automatically trigger** a Dependency Analysis as part of a Modify or Retire Course Proposal	✖	✖
	Ability to **require** a Dependency Analysis be run and attached to a a Modify or Retire Course Proposal **at a preconfigured node in the workflow**	✖	✖
	Ability to send **notifications** to Oversight Organization(s) of Dependent Courses, Course Sets, and Programs	✖	✖