Digital Curation Issues within the Context of a Curriculum for Digital Librarianship

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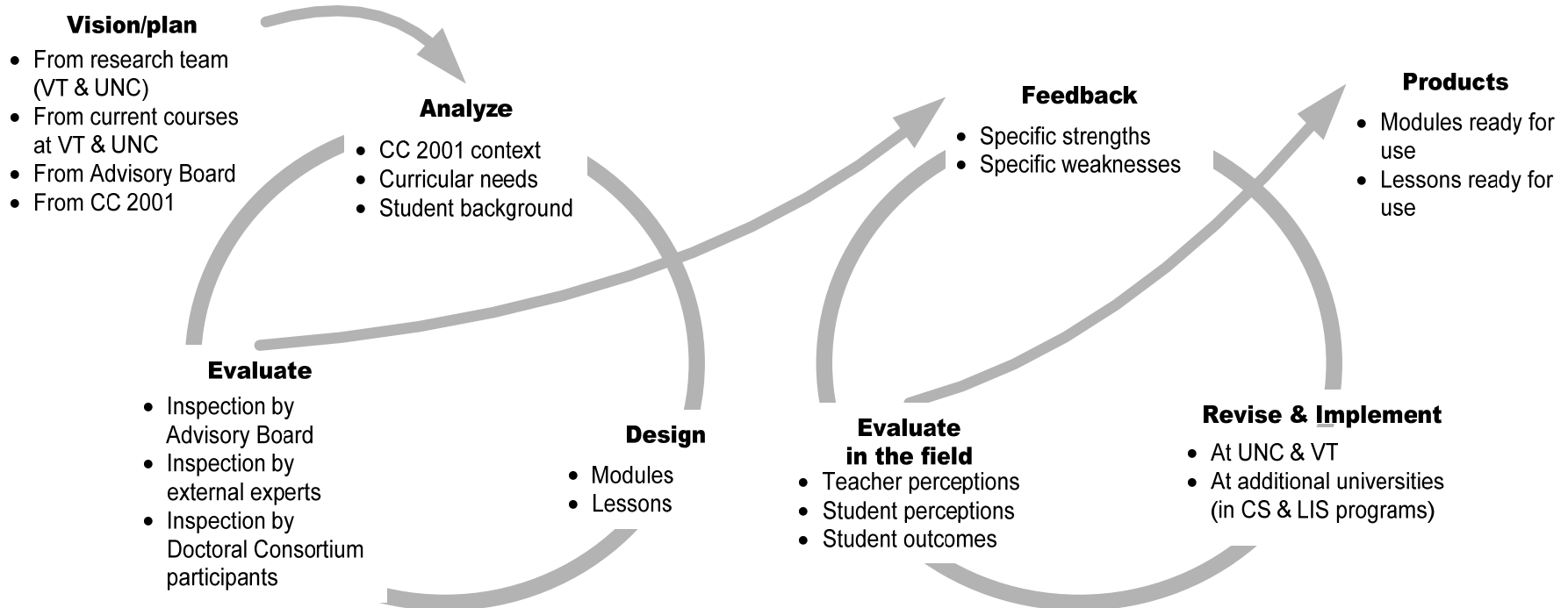**Barbara M. Wildemuth**
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Tapping the vast reservoir of human knowledge --Louis Round Wilson, founder, 1931

Development & Evaluation Process

Vision/plan

- From research team (VT & UNC)
- From current courses at VT & UNC
- From Advisory Board
- From CC 2001

Analyze

- CC 2001 context
- Curricular needs
- Student background

Feedback

- Specific strengths
- Specific weaknesses

Products

- Modules ready for use
- Lessons ready for use

Evaluate

- Inspection by Advisory Board
- Inspection by external experts
- Inspection by Doctoral Consortium participants

Design

- Modules
- Lessons

Evaluate in the field

- Teacher perceptions
- Student perceptions
- Student outcomes

Revise & Implement

- At UNC & VT
- At additional universities (in CS & LIS programs)

Curriculum framework

1	Overview	1-a (10-c): Conceptual frameworks, theories, definitions	1-b: History of digital libraries and library automation
2	Digital Objects	2-a: Text resources 2-b: Multimedia	2-c (8-c): File formats, transformation, migration
3	Collection Development	3-a: Collection development/ selection policies 3-b: Digitization	3-c: Harvesting 3-d: Document and e-publishing/ presentation markup
4	Info/ Knowledge Organization	4-a: Information architecture (e.g., hypertext, hypermedia) 4-b: Metadata, cataloging, metadata markup, metadata harvesting 4-c: Ontologies, classification, categorization	4-d: Subject description, vocabulary control, thesauri, terminologies 4-e: Object description and organization for a specific domain
5	Architecture (agents, mediators)	5-a: Architecture overviews/models 5-b: Applications 5-c: Identifiers, handles, DOI, PURL	5-d: Protocols 5-e: Interoperability 5-f: Security

Curriculum framework

6	User Behavior/ Interactions	6-a: Info needs, relevance 6-b: Search strategy, info seeking behavior, user modeling	6-c: Sharing, networking, interchange (e.g., social) 6-d: Interaction design, info summarization and visualization, usability assessment
7	Services	7-a: Search engines, IR, indexing methods 7-b: Reference services 7-c: Recommender systems	7-d: Routing, community filtering 7-e: Web publishing (e.g., wiki, rss, Moodle, etc.)
8	Preservation	8-a: Approaches to archiving and repository development	8-b: Sustainability 8-c (2-c): File formats, transformation, migration
9	Management and Evaluation	9-a: Project management 9-b: DL case studies 9-c: DL evaluation, user studies 9-d: Bibliometrics, Webometrics	9-e: Legal issues (e.g., copyright) 9-f: Cost/economic issues 9-g: Social issues
10	DL education and research	10-a: Future of DLs 10-b: Education for digital librarians	10-c (1-a): Conceptual framework, theories, definitions 10-d: DL research initiatives

Module Template

1. Module name
2. Learning objectives
3. Level of effort required
4. Prerequisite knowledge required
5. Relationships with other modules
6. Introductory remedial instruction
7. Resources
8. Body of knowledge
9. Exercises & learning activities
10. Evaluation of learning outcomes
11. Glossary
12. Useful links

Links with DigCCurr Matrix

DigCCurr Matrix	DL Module Framework
Knowledge of Archival Functions (theory and methodology)	8-a: Approaches to archiving and repository development
Sustainability	8-b: Sustainability
Format of resource	8-c: File formats, transformation, migration
Legal Requirements	9-e: Legal issues (e.g., copyright)

Additional information

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Project website: curric.dlib.vt.edu

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