

Program Mapping

A Powerful Tool for Aligning College Programs with Powerful
Learning Outcomes and Accreditation Standards

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Session Outcomes

- Gain a general understanding of mapping
 - Describe briefly at least three uses for mapping
 - Use mapping to demonstrate quality by adhering to external standards of excellence
 - Develop outcomes – Mapping programs – start with the “end in mind”
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Questions

- Do you understand student course-taking patterns?
- Do you understand the progression of required and elective courses and skill and concept development?
- Do faculty ever discuss the level at which individual courses really are taught?
- When you propose a course, can you successfully advocate to a curriculum committee what the course contributes to the whole?
- What do your students say about gaps in learning opportunities?

Ruth Stiehl (2002). *The Outcomes Primer: Reconstructing the College Curriculum*. The Learning Organization

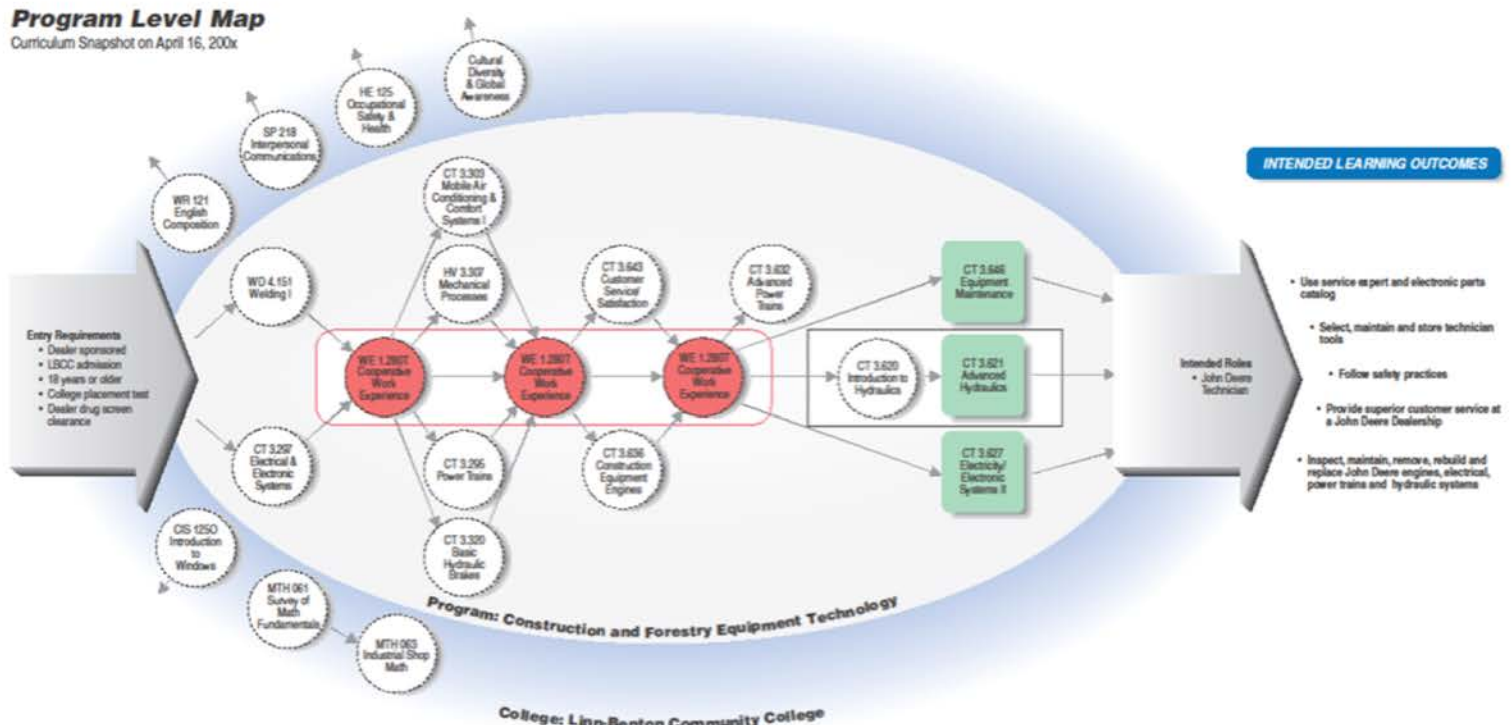
What is Mapping?

- Produces a picture of a curriculum or program created when you apply a variety of “lenses” as analysis tools
 - Can be simple or intricate
 - Provides a basis for targeted collaboration regarding a curriculum or program
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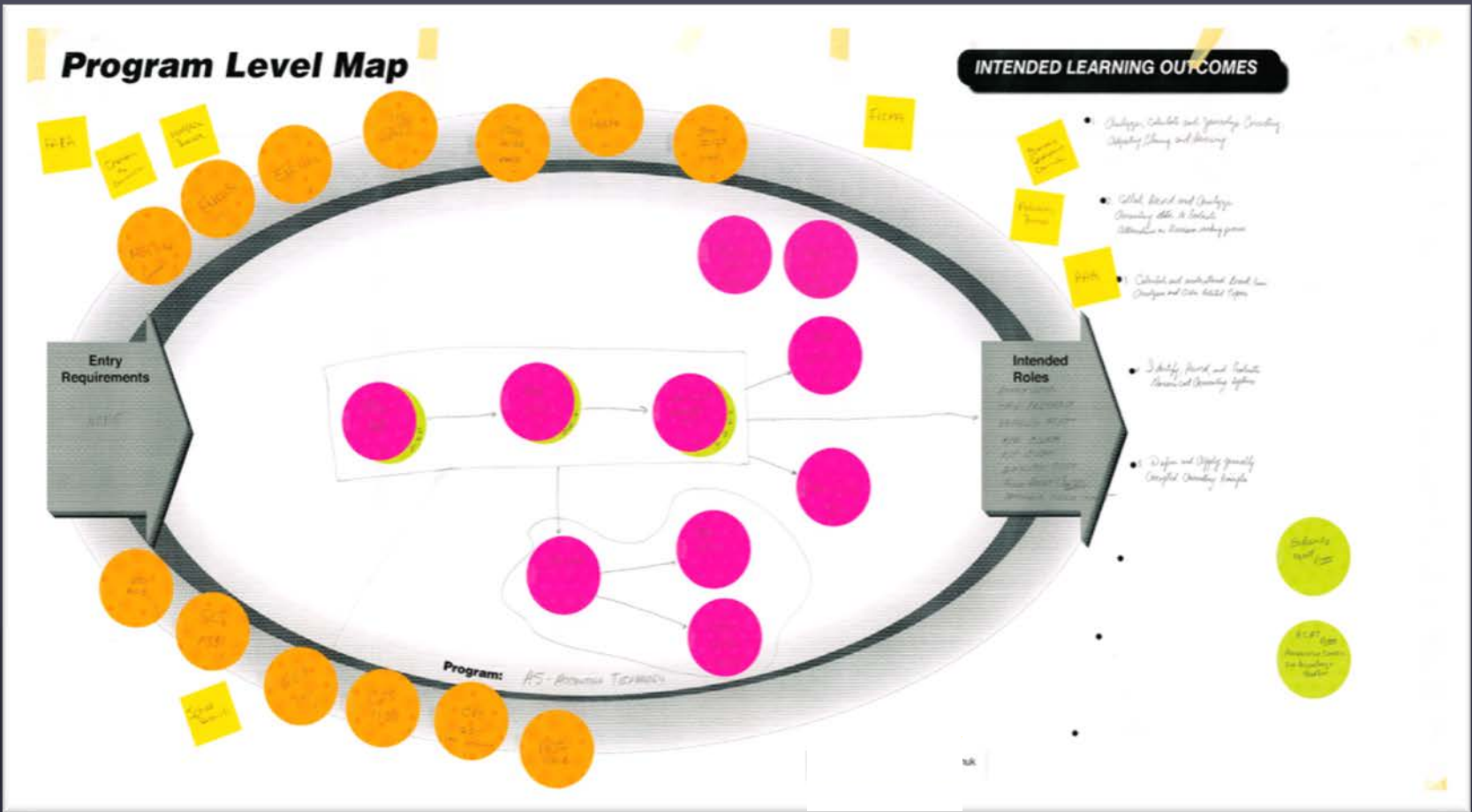
Program Level Map

Program Level Map

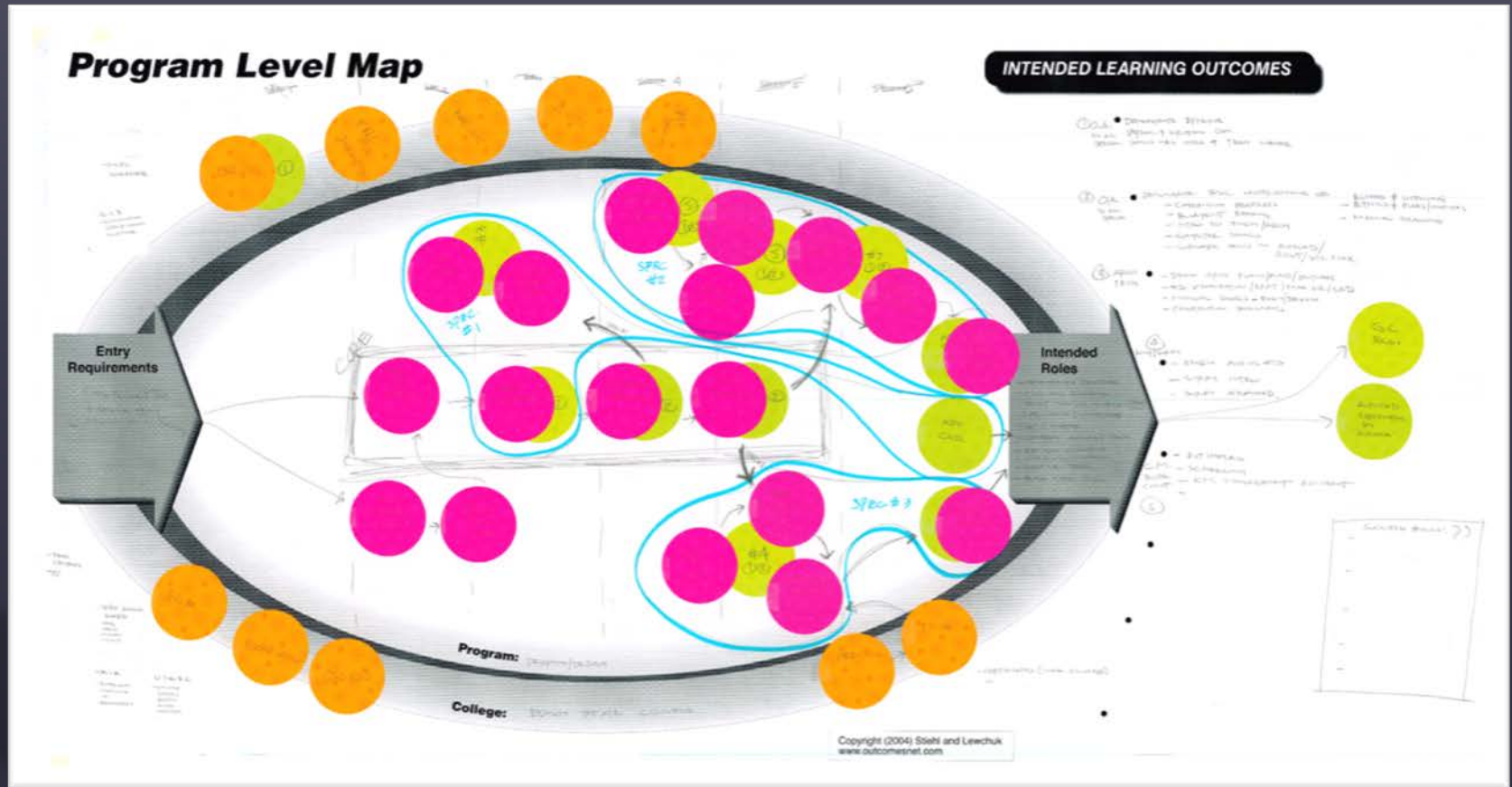
Curriculum Snapshot on April 16, 200x



AS – Accounting Technology



Drafting



Management and Supervision: Curriculum Map (Program Level Outcomes)

Course or Experience	Analysis Approach	Graduates understanding of economics and business...	Graduates application of HR engagement principles...	Graduates application of marketing principles...
Intro to Business Management (us 100)	SLO Addressed	Yes	Yes	Yes
Security Awareness for Managers (Bus 106)	SLO Addressed			
Business protocol (Bus 110)	SLO Addressed		Yes	
Principles of Supervision I (BUS111)	SLO Addressed		Yes	
Principles of Supervision II (BUS112)	SLO Addressed		Yes	
Entrepreneurship (BUS 116)	SLO Addressed	Yes		
Leadership Development (BUS 117)	SLO Addressed		Yes	
Concepts Supervision (BUS 118)	SLO Addressed		Yes	
Business Mathematics I(BUS 121)	SLO Addressed	Yes		Yes
Business Mathematics II (BUS 122)	SLO Addressed	Yes		Yes
Small Business Management (BUS 165)	SLO Addressed	Yes	Yes	Yes

Management and Supervision: Curriculum Map (Levels of Instruction)

Course or Experience	Analysis Approach	Graduates understanding of economics and business...	Graduates application of HR engagement principles...	Graduates application of marketing principles...
Intro to Business Management (us 100)	Level of Instruction	1 Introduced	1 Introduced	1 Introduced
Security Awareness for Managers (Bus 106)	Level of Instruction			
Business protocol (Bus 110)	Level of Instruction		2 Reinforced	
Principles of Supervision I (BUS111)	Level of Instruction		2 Reinforced	
Principles of Supervision II (BUS112)	Level of Instruction		3 Emphasized	
Entrepreneurship (BUS 116)	Level of Instruction	1 Introduced		
Leadership Development (BUS 117)	Level of Instruction		2 Reinforced	
Concepts Supervision (BUS 118)	Level of Instruction		2 Reinforced	
Business Mathematics I(BUS 121)	Level of Instruction	2 Reinforced		2 Reinforced
Business Mathematics II (BUS 122)	Level of Instruction	2 Reinforced		2 Reinforced
Small Business Management (BUS 165)	Level of Instruction	3 Emphasized	3 Emphasized	3 Emphasized

Management and Supervision: Curriculum Map (General Education Outcomes)

Course or Experience	Analysis Approach	Communications	Quantitative literacy	Critical Thinking	SQR
Intro to Business Management (us 100)	SLO Addressed	Yes	Yes	Yes	
Security Awareness for Managers (Bus 106)	SLO Addressed	Yes		Yes	Yes
Business protocol (Bus 110)	SLO Addressed	Yes	Yes	Yes	
Principles of Supervision I (BUS111)	SLO Addressed	Yes	Yes	Yes	
Principles of Supervision II (BUS112)	SLO Addressed	Yes	Yes	Yes	
Entrepreneurship (BUS 116)	SLO Addressed	Yes		Yes	Yes
Leadership Development (BUS 117)	SLO Addressed	Yes	Yes	Yes	
Concepts Supervision (BUS 118)	SLO Addressed	Yes	Yes		
Business Mathematics I (BUS 121)	SLO Addressed	Yes	Yes	Yes	
Business Mathematics II (BUS 122)	SLO Addressed	Yes	Yes	Yes	
Small Business Management (BUS 165)	SLO Addressed	Yes	Yes	Yes	

Utilization Maps

For Professional/Accreditation Standards

Course or Experience	Analysis Approach	Apply math, science, and engineering principles	Design and conduct experiments	Design a system, component or processes for needs	Function on multi-disciplinary teams	Identify, formulate, and solve engineering problems
Introduction to Aerospace (AERO 201)	ABET Program Outcomes	Yes/Addressed				
Aerospace mechanics (Aero 211)	ABET Program Outcomes	Outcome A	Outcome B			Outcome E
Thermodynamics for Aerospace (AERO 212)	ABET Program Outcomes	Outcome A	Outcome B			Outcome E
Material Science for Engineers (AERO 213)	ABET Program Outcomes	Outcome A		Outcome C	Outcome D	Outcome E
Engineering Principles of Continuum Mechanics (AERO 214)	ABET Program Outcomes	Outcome A			Outcome D	
Introduction to Aerospace Computation (AERO220)	ABET Program Outcomes	Outcome A		Outcome C		
Special Topics in... (AERO 289)	ABET Program Outcomes	Outcome A		Outcome C		Outcome E
Research (Aero 291)	ABET Program Outcomes	Outcome A	Outcome B		Outcome D	Outcome E

Resources

Richard Paul and Linda Elder's *The Miniature Guide for Those Who Teach on How to Improve Student Learning* (2002). Pp. 43-44.

Gerald Nosich's *Learning to Think Things Through: A Guide to Critical Thinking Across the Curriculum* (2005). Pearson, Prentice Hall.

Seattle Central Community College: *Curriculum Coordinating Council*
http://seattlecentral.edu/users/crc/Assessment/IA_Writing_Course_Outcomes.htm

University of Connecticut: *Assessment*
<http://assessment.uconn.edu/docs/HowToWriteObjectivesOutcomes.pdf>

League for Innovation: *Istream*
http://www.league.org/istreamSite/lens_index.cfm?gr=yes&visible=block

Ruth Stiehl's *The Outcomes Primer: Reconstructing the College Curriculum* (2002). The Learning Organization.

WEAVEonline: *Assessing Achievement on Institutional Mission*
http://www.weaveonline.com/PHPages/wp-content/uploads/2010/04/Newsletter_Spring_2010.pdf#page=2
