



Applied Learning as a Best Practice Model

A Strategy for Higher Education Student Success

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...The Good

What is Applied or Experiential Learning?

- Activities that engage the learner directly in the phenomena being studied and are associated with structured reflection on the connection between the phenomena and theoretical concepts (Kendall, 1990, 181).
- Viewed as pedagogy; practical application of resources; mechanism for citizenship development



Benefits of this approach

- Increased student exposure, awareness, understanding of traditions and cultures different from their own
- Students as creators of knowledge
- Skill acquisition and development
- Increased interest and excitement about learning
- Supports research and teaching of faculty

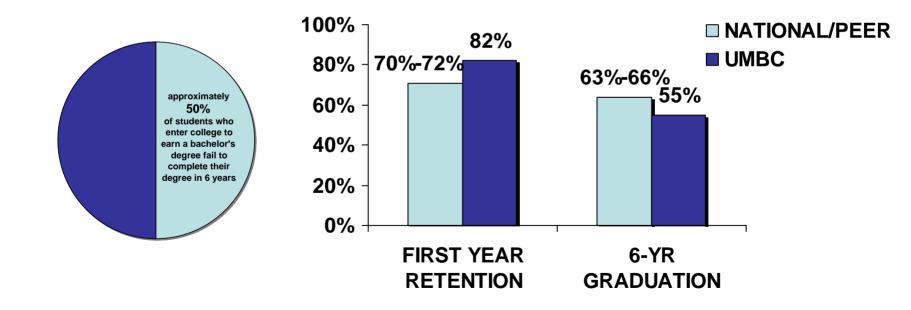


Which of the following activities is not traditionally viewed as applied learning?

	Cooperative Education		Internship		
Performance		Resident Hall Assistant		Research	
	Service-Learning		Study Abroad		



...The Bad: Higher Education Student Persistence: Is There a Problem?



Reframing Retention & Graduation Rates



Making The Bad Not See So Bad

Student Success Focuses on Strategies to:

- Prevent departure/attrition
- Promote overall success developmentally and academically

A Theoretical Perspective



Student Involvement Theory

What is student involvement?

"The amount of physical and psychological energy that the student devotes to the academic experience" (Astin, 1984).

Student Involvement Theory



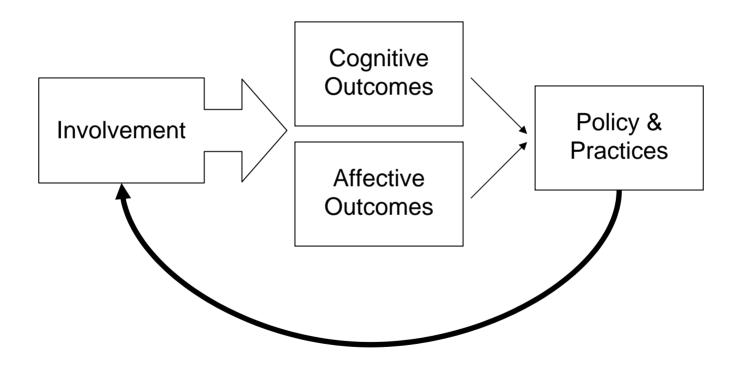
 What is Astin's Student Involvement Theory?

The greater a student's involvement, the greater his/her level of personal development and student learning (or higher levels of affective and cognitive development)

Student Involvement Theory



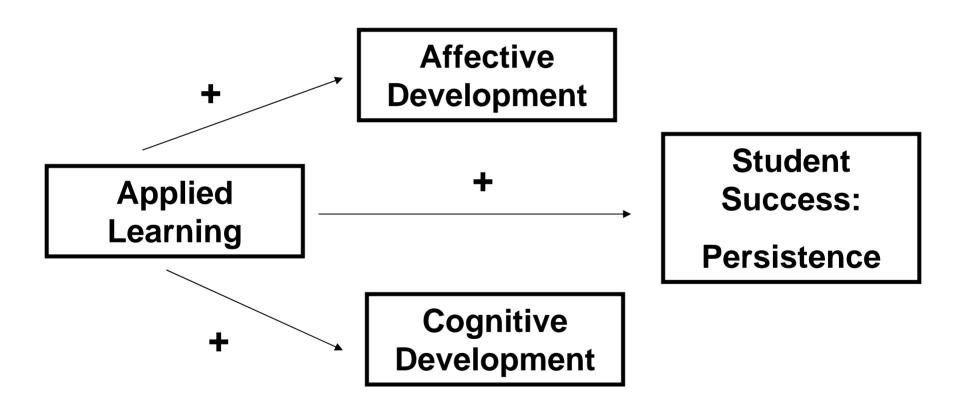
Postulates and Assumptions



Theoretical Model



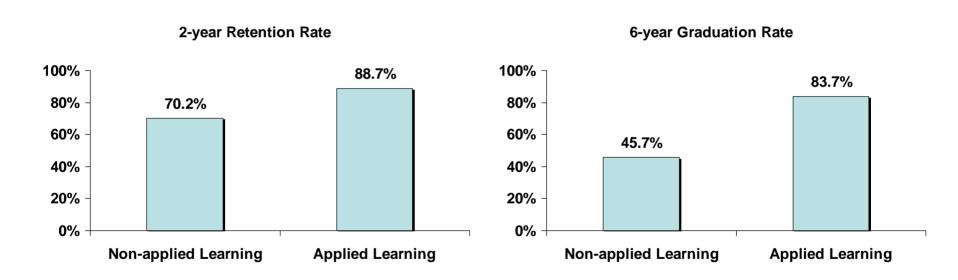
Applied Learning, Development & Student Success



Applied Learning, Involvement & Student Success



Special Programs Exploratory Study: The effect of applied learning on undergraduate retention and graduation rates



Research Questions



- What is the impact of different types of applied learning on seniors' affective & cognitive development?
- How is student development related to degree completion?
- What are the relationships among applied learning, student development, and degree completion?



- Data & Sample
 - 2004 National Survey of Student Engagement (NSSE)
 - Web-based survey administered by NSSE
 - Response rate (SR) = 36%
 - Senior-level Students
 - 12 24 credits of graduating (n = 328)



Dependent Variables

- Graduated (yes/no)
- Time to Degree (in years at this institution)



Independent Variables

- Applied Learning Experiences (yes/no)
 - Professional practice
 - Community service
 - Research
 - Study abroad program
 - Service-learning

Multiple applied learning experiences



Mediating Variables

- Cognitive Development (α = .88; 10 items)
- Affective Development (α = .84; 6 items)
- Principal components factor analysis and reliability analysis were conducted for each scale
- Mean scaled scores were created



Control Variables

- Student Demographics
 - Gender
 - Race
 - Non-traditional college student (≥ 25 yrs.)
 - First-generation college
 - Enrollment status (FT/PT)
 - Transfer student
 - Major program area (STEM v. non-STEM)
 - Dorm resident
 - In-state residency
 - Cumulative GPA

Bivariate Relationships between Applied Learning, Student Development & Degree Completion

	Affective Development	Cognitive Development	Graduated	Time to Degree
Professional Practice		+	+	-
Community service	+	+	+	
Research				
Study Abroad				
Service-learning	+			
Multiple applied experiences	+	+	+	-
Affective development				
Cognitive development				

Multivariate Analyses



Applied Learning, Student Development & Degree Completion

 Bivariate relationships between applied learning and reports of cognitive & affective development remained significant when controlling for student characteristics.

Multivariate Analyses



Applied Learning, Student Development & Degree Completion

- Senior-level students who had completed a professional practice experience were significantly more likely to graduate in less time than seniors who reported not having completed such an experience.
- Senior-level students who engaged in more applied learning experiences were significantly more likely to graduate in a shorter period of time than those who did not.

Implications



Implementation & Next Steps

- Promote the institutionalization of applied learning as part of undergraduate education enhancement
 - Creating an "honors university experience" for every student
 - Applied learning as graduation requirement
 - Effectiveness & Efficiency Initiative
- Dissemination as a best practice for adaptation/implementation of applied learning as an active learning curriculum component

Limitations of Current Research



Used a sample of senior-level students

 Focused on multi-item indicators of cognitive and affective development instead of individual components

Directions for Future Research



Incorporate Alumni Survey to enhance current research

Longitudinal retention and graduation analysis

Directions for Future Research



Tinto's interactionist theory of student departure

 Pilot study of impact of applied learning on affiliated versus non-affiliated student success





QUESTIONS?