CRITICAL THINKING STYLES OF INTERNATIONAL FACULTY



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Purpose

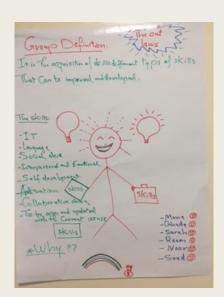
- Enhancing Teaching and Student Learning
- 5-day intensive professional development training for faculty
- King Saud University, Riyadh, Kingdom of Saudi Arabia
- Separate Female and Male Groups
- Seminar Topics included:
 - Creating a Course that Meets Student Needs: Start with the End in Mind
 - Inquiry-based Learning, Motivating and Engaging Students
 - *Improving Student Learning (Participants engaged in Critical Thinking, UFCTI)
 - Utilizing a Problem Solving Approach
 - 21st Century Teaching, Mentoring Faculty



Overview

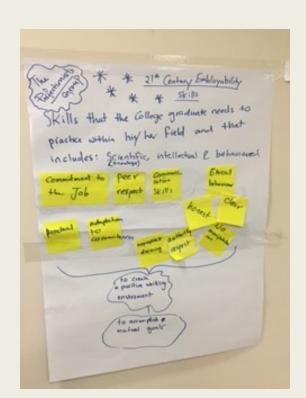
- Students need skills in the content area, in reasoning, in problem-solving, and in thinking.
- Faculty need an understanding of the importance of those skills.
- Critical thinking skills can be assessed as a "style" not a right or wrong way to think. (Lamm & Irani, 2011)
- Faculty critical thinking style may influence teaching style.
- Students must be directed to higher levels of cognition. (Whittington, 1995)
- Instructors must address critical thinking. (Whittington, 1991)
- An important first step faculty knowing their own critical thinking style.





Related Research

- Previous work focused on student critical thinking and relationships with teaching strategies and attributes
 - Rollins, 1990; Cano & Martinez, 1991; Burton & Garton, 2007, Lamm, Rhoades, Irani, Roberts, Unruh-Snyder, & Brendemuhl, 2012; Burbach, Matkin, Quinn, & Searle, 2012
- Teachers can influence their students' critical thinking
 - Burbach, et al., 2012
- Agriculture instructors need to provide critical thinking opportunities
 - Burbach, et al., 2012
- Educators need to be aware of critical thinking attributes
 - Lamm, et al., 2012



UF Critical Thinking Inventory

- Critical Thinking Reasonable and reflective thinking that is purposeful and goal directed (Lamm & Irani, 2011)
- UF Critical Thinking Inventory (UFCTI)
 - Developed and validated by researchers at University of Florida
 - Identifies Critical Thinking style via a 20-item inventory
 - Continuum: Seekers ← → Engagers
- Seekers: high tendency to seek information, open to others' opinions, consistently looking for new knowledge
- Engagers: anticipate situations needing good reasoning, confident in reasoning, problem-solving and decision-making skills



Methods

- UFCTI instrument administered to faculty at King Saud University,
 Riyadh, Saudi Arabia
 - Participants in faculty development workshops (self-selected)
 - Administered separately to female and male faculty
- 22 females and 39 males completed the inventory
- Results tabulated utilizing UFCTI guidelines
- Possible score range: 26 130
- Seekers: score of 78.4 and lower
- Engagers: score of 78.5 and higher



Findings

GENDER	N	SEEKER	ENGAGER
Female	22	14	8
Male	39	18	21
Total	61	32	29

Note: Possible score range: 26 – 130

Seekers: score of 78.4 and lower

Engagers: score of 78.5 and higher



Findings

- Female faculty (n = 22)
 - Average slight tendency toward seeking style
 - Range of scores: 73.8 89.7
 - 64% (n = 14) indicated a **Seeking** style; 36% (n = 8) indicated an **Engaging** style
- Male faculty (n = 39)
 - Average slight tendency toward engaging style
 - Range of scores: 66.6 90.9
 - 54% (n = 21) indicated an **Engaging** style; 46% (n = 18) indicated a **Seeking** style

*Note: Possible score range: 26 – 130

- Seekers: score of 78.4 and lower
- Engagers: score of 78.5 and higher



Conclusions, Recommendations, and Implications

- Female and Male faculty groups were similar in their CT styles
- Overall mean scores for each group were near the dividing line between Seeking and Engaging
- Male faculty scores were more varied than female faculty scores
- The UFCTI should be utilized more broadly in the U.S. and in international settings
- U.S. educators should be aware of potentially different CT styles among faculty as they engage in international activities
- More information is needed for relationships among faculty CT style, student CT style, and teaching strategies

Questions?

Thank you!

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