Competency-Based Education (CBE)

Considerations for the Future

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Approach started in 1960s in adult learning programs as a reaction to employer feedback on graduates that did not have expected skills when entering the workforce



1970s DOE offered grants to institutions offering adult learning programs to experiment with CBE, primarily concerned with adult basic skills



 Broader paradigm shift started with Western Governors in 1990s as first higher ed institution to award degrees based on competencies



 MAJOR BREAKTHROUGH - March 2013 the DOE approved federal financial aid for CBE students

As of April 2015 Southern New Hampshire and Capella Universities were the first to receive both regional accreditation and DOE approval for direct assessment programs

Currently 600 institutions considering offering CBE

programs





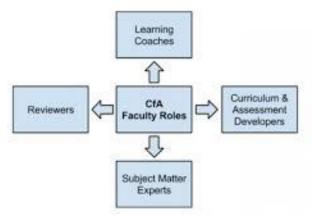
Characteristics

- Based on mastery of skills not time
- Self-paced
- ► Fully online
- Personalized learning paths
- Project-based
- Assignments structured to allow demonstration of mastery



Characteristics

Learning coaches and subject matter expert assessors



- No grades (no failure!) − practice until you get it
- Start date each month
- Targets adult learners who bring pre-existing experience, knowledge, skills and abilities

Two CBE Models



- Course-based model with credit equivalency
 - ► E.g. 120 competencies map to 120 credit hours qualifies students for federal financial aid
 - Allows for traditional transcript plus competency transcript
- Direct assessment
 - Direct measure of student mastery of competencies via assessment. No clock hours or credit hours
 - Portfolios, competency transcripts

Pricing Model

Western Governors University

University of Wisconsin Flex

Northern Arizona University

 Southern New Hampshire U (College for America only)

Capella University

\$2,890 per 6-month term

\$2,250 per 3-month term

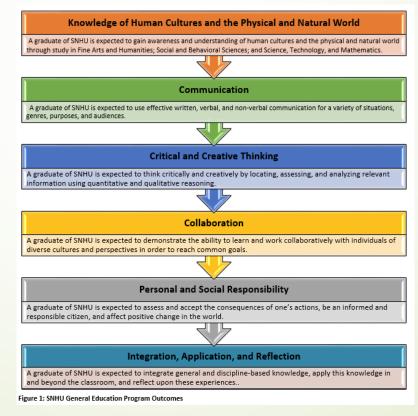
\$2,500 per 6-month term

\$1,250 per 6-month term

\$2,000 per 3-month term

Lower cost not lower quality

Identify the competencies/skills required for successful completion of a program (what must students know and be able to do)



 Design assignments/activities for each competency that will move students toward successful demonstration



Compose academic essays in various rhetorical styles

Write a summary of a major position in Weber, Veblen, Cooley, and Mead and a research proposal and paper in a liberal arts discipline with an annotated bibliography.



Demonstrate knowledge of potential and limitations of technology's advances

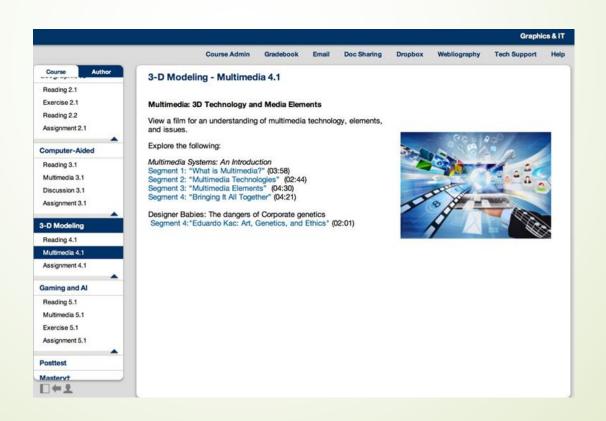
Demonstrate understanding of impacts of technology on institutions and humanity. Discuss impact of technology on facets of psychology and Sociology, the perpetuation of stereotypes through technology and possible changes in human nature and ethics due to technology.



Practice an examined or self-reflective life

Discuss a personal statement of the importance of literature, film, and art in understanding human nature; also discuss a personal statement about film's impact in understanding culture. Journal about the meaning of life, explore connections between religion and art and explore connections between history and art/literature.

Provide learning resources in variety of media to allow choice by learning style



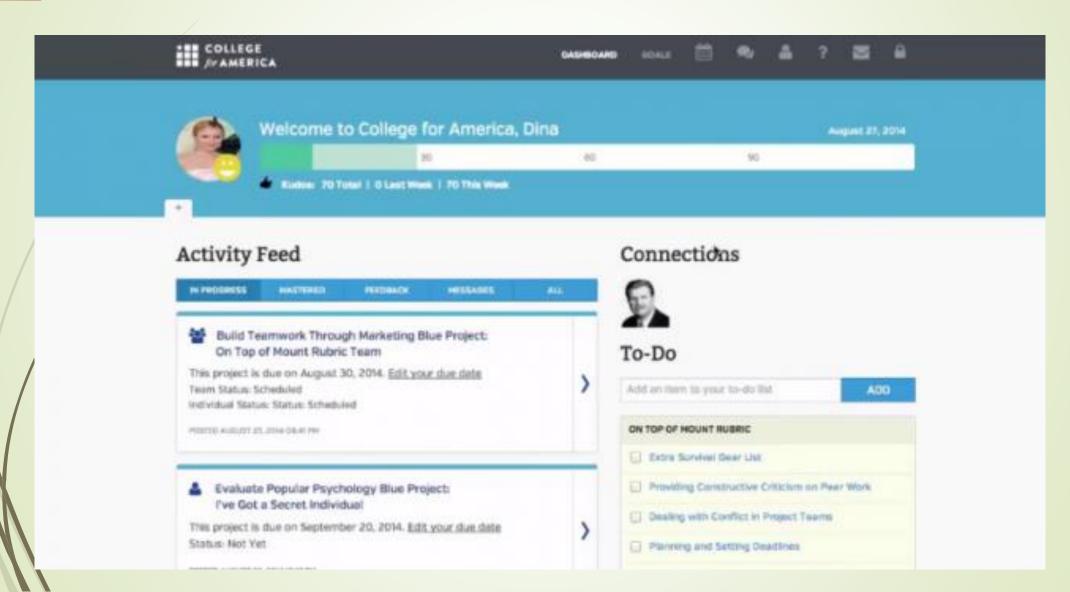
 Craft rubrics that allow for consistent and rigorous assessment of student work that identify mastery elements

Criteria	Exemplary 4	Competent 3	Acceptable 2	Unacceptable 1	Not Attempted 0
Purpose or goal	Identifies clearly and addresses consistently a realistic and significant purpose or goal	Identifies clearly a realistic and significant purpose or goal	Identifies a reasonable purpose or goal	Identifies an unclear and/or unrealistic purpose or goal	Does not identify a purpose or goal
Hypothesis	Identifies and addresses consis- tently an important hypothesis	Identifies an important hypothesis	Identifies a hypothesis	Identifies an insignificant hypothesis	Does not identify a hypothesis
Evidence	Presents clearly and accurately all of the necessary data	Presents clearly and accurately most of the necessary data	Presents accu- rately some of the necessary data	Presents inaccurately some data or irrelevant data	Does not present data
Conceptual understanding	Responds clearly and effectively using appropri- ate and sufficient course content and outside sources	Responds clearly using appropri- ate and sufficient course content	Responds using appropriate and sufficient course content	Responds using insufficient and/ or inappropriate course content	Does not respond using course content
Assumptions	Presents and justifies crucial and consistent assumptions	Presents and justifies consistent assumptions	Presents consistent assumptions	Presents extra- neous and/or contradictory assumptions	Does not present assumptions
Inferences	Draws clear and valid conclusions or inferences sup- ported by content	Draws valid con- clusions or infer- ences supported by content	Draws valid conclusions or inferences	Draws inac- curate conclu- sions or inferences	Does not draw conclu- sions or inferences

- Scaffold activities for progressive levels of difficulty
- Provide extensive feedback from subject matter experts to guide student mastery

Student Name - Unit Challenge Feedback - 5/20/2015 Generally a good job for your first try! TABLES Merchants: The Phone number field was not loaded correctly. The data file had a leading 1. which makes the format look incorrect. 2. Customers: Same issue with the phone number 3. Cards: The instructions are not clear here, but this field should be mandatory. Frequently when linking two tables together, the fields should be mandatory, otherwise the users can leave the field blank and you don't know who is the owner of the credit card 4. Charges: It looks like you ended up with additional records in this table Mostly OK, but you need to make sure you check the box "Enforce Referential Integrity" and the type of join. QUERIES 1. Merchant Query: Looks good but make sure that you sort the query results as indicated in the 2. Cards. Crosstab: The value in the crosstab should be the value of the credit limit, not the sum 3. Update, Cards: This is a query that is used to change values in a table. **FORMS** 1. Customers: OK 2. Merchants: OK

SNHU College for America Interface



Challenges

- Retrofitting legacy SIS systems to accommodate 12 monthly start dates, tracking competencies versus credit hours, mapping competency sets to 3-credit courses for academic transcripts, recording mastery not grades
- Financial aid model for "full-time" and "part-time" students; producing student activity metrics for reporting
- Bursar billing cycles for 6-month subscriptions, managing refunds
- Hiring/training learning coaches to monitor student engagement and progress
- New model for faculty workload

Challenges

- Working with subject-matter experts (SMEs) to design relevant and authentic activities/assignments and determine consistent and clear performance indicators (compensation for SMEs) Working out how assessors are compensated
- Lack of off-the-shelf LMS systems to track competency mastery
- Different business model
- Student pre-assessment, orientation, workflow and support
- Transcripting previous credit courses with competencies
- NEASC Accreditation