knowledge 2 work

A New Type of Search Engine and Portal for Competencies and Credentials

• • • • •

AACC 2015

• • • • •

John Milam, Ph.D.
Lyda Costello Kiser
Lord Fairfax Community College

Stephanie

Food Services Management

Hurt shoulder, can't lift. Wants to change to retail mgmt. but doesn't have experience. Knows she has the skills, needs to show prospective employers she can do comparable work

Bob

Wounded Warrior, Vet

Not comfortable around non-military culture, wants to prove what he already knows, not jump through hoops and spend money he doesn't have. Likes online courses, but needs lots of support

Zonker

Lots of Credits

Stayed in school 8 years, but dad's cutting him off and he needs to get a job and wants to package up all he's done to show employers that he has what it takes

Dot

Gamer

Spends all her time playing video games & texting; has own game company. College is old fashioned, not fast enough. Taught herself programming. Needs to show what she can do and do it her way

Common themes across these students' stories

Stephanie

Bob

Zonker

Dot

Already know a lot, just need to be able to show it

Very impatient with the traditional system of higher education

Don't have time or money to jump through a lot of hoops

Confident and self-directed, want to learn at their own pace

Could drop out if things don't suit them

Want to use their smartphones & tablets to get content

Stephanie

Bob

Zonker

Dot

Already know a lot, just need to be able to show it = ***Competencies***

Very impatient with the traditional system of higher education = ***Personalization***

Don't have time or money to jump through a lot of hoops = ***Contextualized***

Confident and self-directed, want to learn at their own pace = ***Accelerated***

Could drop out if things don't suit them = ***Wrap-around support services***

Want to use their smartphones & tablets to get content = ***Open Educational Resources***

TAACCCT
TRADE ADJUSTMENT ASSISTANCE COMMUNITY COLLEGE AND CAREER TRAINING GRANT PROGRAM

$3.25M Award 10/1/14

Includes $750K for a new, nationally-recognized credential

New personalized CBE model tied to OERs & direct assessment of competencies

Creates a new type of educational search engine

Creates new CBE portal
Self-assessments, sample plans, learning communities, search engine for learning resources, learner profiles, custom plans

Offers 7 CBE Program options
AAS degrees in IST & HIM, certificate in AST, career studies certificates in cyber security, networking specialist, hospital facility coding, & information processing technician

Seeking regional accreditation approval
Filed substantive change prospectus w/ SACSCOC in order to offer these programs 100% through direct assessment of competencies

Will seek Title IV financial aid approval
Pending regional accreditation approval, will file modification of the program participation agreement in order to offer Title IV financial aid for these 7 direct assessment of competencies programs

Key features

Personalized learning plans
Work w/ faculty to create personalized learning plan for semester attending full- or part-time. Focus on program competencies. Weekly momentum points show faculty-student engagement. Document milestones at the beginning, middle, & end of the semester, recorded in a portfolio. Narrative evaluation of meets/does not meet.

Focused on competences
Program competencies are based on national frameworks from ACM, AHIMA, & IAAP & are mapped by faculty to program student learning outcomes. One-credit equivalent in first semester is spent reflecting on previously attained competencies, documented in a portfolio.

Using digital learning objects/open educational resources (OERs)
K2W provides a new educational search engine to find and use free and low-cost digital learning objects, including curated OERs. Users can filter learning resources by cost, delivery mode, language, complexity. Will include online courses, internships, iTunes U, Khan Academy, MOOCs, Creative Commons, Skill Commons

Documented with direct assessment
Faculty in the discipline identify direct and indirect assessment methods to verify competency attainment. This involves a variety of methods such as projects, exams, assignments, quizzes, & simulations. Faculty use rubrics to set criteria for success. All competencies must be documented at the 80% level or higher to be recorded as met.

Stored in portfolios carried from education to work, w/ documentation of prior learning
Personalized learning plans, direct & indirect assessments, & review of previously learned competencies are stored as artifacts in a portfolio which the student takes w/ him/her from education through life. Prior learning is documented in the same way personalized learning plans are met, through faculty-approved assessments & exams tied to specific competencies

Wrap-around support services & alignment w/ workforce needs
Provides two full-time career coaches, full-time adult education instructor, & full-time Workforce Navigator to ensure alignment between CBE program preparation & the competencies needed for real-time job openings in IT, HIM, administrative support technology, & advanced manufacturing. Ten regional & two national partners.

Semester Plan

Program

Competency

Learning activities

Digital learning object

Assessments

Portfolio artifacts

Milestone   Milestone   Milestone

M1 M2 M3 M4 M5 M6 M7 M8 M9 M10 M11 M12 M13 M14 M15

Pending SACSCOC approval

AAS in Information Systems Technology

AAS in Health Information Management
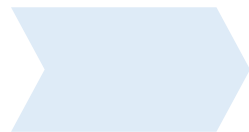
Certificate in Office Systems Assistant

Career Studies Certificate in Cyber Security

Career Studies Certificate in Networking Specialist

Career Studies Certificate in Hospital Facility Coding

Career Studies Certificate in Information Processing Technician

Adapted by LFCC Faculty Direct Assessment Committee

Association for Computing Machinery
Committee for Computing Education in Community Colleges

AAS in Information Systems Technology

Career Studies Certificate in Networking Specialist

Career Studies Certificate in Cyber Security

American Health Information Management Association

AAS in Health Information Management

Career Studies Certificate in Hospital Facility Coding

International Association of Administrative Professionals

Certificate in Office Systems Assistant

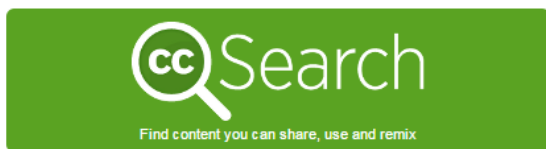**Career Studies Certificate in Information Processing Technician**

Competency Frameworks for CBE programs

HIM Competency Mapping to Courses for AAS Degree

Health Information Management Degree Domains	Knowledge Clusters	Assessed in Courses
Domain: Health Data Management		
I.A. Subdomain: Health Data Structure, Content, and Standards 1. Collect and maintain health data (such as data elements, data sets, and databases). 2. Conduct analysis to ensure that documentation in the health record supports the diagnosis and reflects the patient's progress, clinical findings, and discharge status. 3. Apply policies and procedures to ensure the accuracy of health data. 4. Verify timeliness, completeness, accuracy, and appropriateness of data and data sources for patient care, management, billing reports, registries, and/or databases.	Health Data Structure, Content, and Standards* • Data versus information (Analyzing, 4) • Health information media (such as paper, computer, web-based) (Analyzing, 4) • Structure and use of health information (individual, comparative, aggregate) (Analyzing, 4) • Health record data collection tools (forms, screens, etc.) (Analyzing, 4) • Data sources (primary/secondary) (Analyzing, 4) • Data storage and retrieval (Analyzing, 4) • Healthcare data sets (such as OASIS, HEDIS, DEEDS, UHDDS) (Understanding, 2)	HIM141 Fundamentals of Health Information Management HIM130 Healthcare Information Systems HIM250 Health Data Classification Systems I (ICD Coding)
I.B. Subdomain: Healthcare Information Requirements and Standards 1. Monitor and apply organization-wide health record documentation guidelines. 2. Apply policies and procedures to ensure organizational compliance with regulations and standards. 3. Maintain the accuracy and completeness of the patient record as defined by organizational policy and external regulations and standards. 4. Assist in preparing the organization for accreditation, licensing, and/or certification surveys.	Healthcare Information Requirements and Standards • Type and content of health record (paper, electronic, computer-based, e-health-personal, web-based) (Evaluating, 5) • Health record documentation requirements (such as accreditation, certification, licensure) (Evaluating, 5) • Data quality and integrity (Analyzing, 4)	HIM141 Fundamentals of Health Information Management HIM130 Healthcare Information Systems HIM231 Health Records Applications I

* Denotes the highest Bloom's Taxonomy level at which the competency is assessed.
1 = Remembering 2 = Understanding 3 = Applying 4 = Analyzing 5 = Evaluating
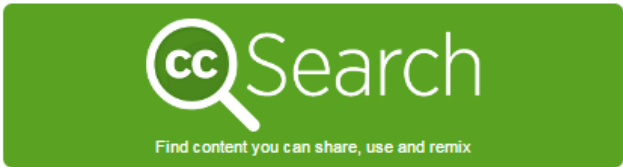
Why do learners want to learn on the mobile?

1 Two-thirds of the learners are already on smartphones making it a handy medium of gaining knowledge

2 Mobile devices provide a level of flexibility not seen or felt before- a course started on a PC or tablet can be completed on a mobile

Mobile Learning

3 Learning takes place without the hassles of the 'preamble' to start learning-they can learn when and where they want to

4 Learning is more contextual and heuristic because learners are on the move

www.originlearning.com

SKILLS COMMONS
open for learning

CC Search
Find content you can share, use and remix

MERLOT II Multimedia Educational Resource for Learning and Online Teaching

OERu

CC search is being replaced with a new search tool from Creative Commons. Check out the GitHub project or you can get email updates on the project

CC Search

Find content you can share, use and remix

Enter your search query

I want something that I can... ☑ use for commercial purposes;
☑ modify, adapt, or build upon;

Search using:

| Europeana | Flickr | Fotopedia | Google |
| Media | Image | Image | Web |

| Google Images | Jamendo | Open Clip Art Library | SpinXpress |
| Image | Music | Image | Media |

| Wikimedia Commons | YouTube | Pixabay | ccMixter |
| Media | Video | Image | Music |

| SoundCloud | | | |
| Music | | | |

Please note that search.creativecommons.org is *not a search engine*, but rather offers convenient access to search services provided by other independent organizations. CC has no control over the results that are returned. *Do not assume that the results displayed in this search portal are under a CC license.* You should always verify that the work is actually under a CC license by following the link. Since there is no registration to use a CC license, CC has no way to determine what has and hasn't been placed under the terms of a CC license. If you are in doubt you should contact the copyright holder directly, or

Add CC Search to your browser.

Learn how to switch to or from CC Search in your Firefox search bar.

English   Help Translate

AHIMA
American Health Information Management Association w/ competency framework, career pathways/job families data, consulting, curriculum alignment, jobs data, outreach

Microsoft
Access to Virtual Academy learning objects, IT career pathways/job families, consulting, curriculum alignment, outreach

Community-based organizations
Goodwill of the Valleys, Horizon Goodwill Industries, Shenandoah Valley Workforce Investment Board (WIB)

K-12 School systems

Advanced manufacturing
Kraft Food, O'Sullivan Films, Evolve Manufacturing, Shockey, Ashworth Brothers

Healthcare
Valley Health, Fauquier Hospital system

Information technology
Shentel telecommunications, Shockey

Creating a new national credential
Conducting research w/ AHIMA & Microsoft on changing competencies & credential needs; will lead to the creation of a new, nationally recognized credential promoted w/ partnership

Alignment w/ other CBE & OER efforts

C-BEN
Competency-Based Education Network of invited institutional leaders sharing best practices, approaches, & Ideas; funded by Lumina & organized by Public Agenda

CBE4CC
Invitational group of 50 community colleges meeting in June in Denver, funded by Gates & DOLETA/TAACCCT to promote CBE success

CCCOER
Community College Consortium for Open Educational Resources sharing best practices & models to leverage OER technology, train faculty, & reduce costs

IMS Global – CBE Record Standard
Workgroup of IMS focused on setting standards for CBE records, including API & data exchange technologies. Meets in Atlanta at May IMS conference

IMS Global – Extended transcript workgroup
Project of CBE Record standard workgroup, focus on developing a model & format for an extended transcript to record CBE; working w/ AACRAO & other organizations Presentation at October Educause conference

State & System OER efforts
Leveraging State Council of Higher Education for Virginia & Virginia Community College System efforts to encourage OER practices & cost savings

Wrap-around support services

Two full-time career coaches
Modeled after the successful Round 2 grant

Adult education instructor
Full-time, located in regional ABE office at college

Workforce Navigator

Apprenticeship coordinator
Help identify & promote apprenticeship opportunities in the targeting industries & w/ regional & national partners

Faculty release time/stipends
Provide stipends & release time for full-time faculty to document competencies, identify direct/indirect assessments, review portfolios, & monitor/evaluate personalized learning plans

Full-time CBE faculty member
Subject matter expert for Information Systems Technology (IST) programs, work w/ IST students on personalized learning plans

Two full-time coaches
Housed in the Office of Transition Programs, w/ Regional Adult Education Program, On-Ramp, Job Placement Coordinator, Adult Education Transition Coach, and Great Expectations

Builds on round 2 TAACCCT work
Provide outreach, career pathways planning, assistance w/ placement testing, admissions, financial aid, registration, prior learning assessment, portal access, & accessing resources

Includes veterans specialist
Experience assisting veteran's with higher education access

Experience w/ the disabled
With a focus on employability

Certified
Through Virginia Community College System and National Career Coach Certification through CORD

Serve all participants
All locations and online, according to NC-SARA (National Council – State Authorization Reciprocity Agreements)

Aligned w/ related K2W services
Work closely with the grant-funded Workplace Navigator and the Apprenticeship Coordinator

Services not funded under AEFLA
Offer services that have been identified as a high need, but are not eligible for funding under AEFLA (Adult Education and Family Literacy Act)

Contextualized curriculum
Using the PluggedIn VA model, this instructor is identifying existing contextualized curriculum or developing new curriculum that focus on IT, HIM, and manufacturing

Basic skills workshops
Focusing on needs in Math & English to assist students in the transition to post-secondary education & training

Portfolio assessment
Assist students with preparing portfolios for assessment

Virginia placement test prep
Providing practice & instruction to students before they take this test required of all community college students in Virginia

Outreach & recruitment
Assist with outreach & recruitment to the K2W & competency-based education programs

Rapid response
Offering specific services to individuals who are about to lose their jobs due to closure, including on-site instruction & testing

Take recruiter's perspective

Alignment w/ CBE program competencies

Competencies needed
for jobs

Help promote apprenticeships

Real-time jobs for students

Part of coordinated K2W outreach team

Occupational hiring trends

Work closely w/ industry partners

TAACCCT
TRADE ADJUSTMENT ASSISTANCE COMMUNITY COLLEGE AND CAREER TRAINING GRANT PROGRAM

COMPETENCY-BASED
EDUCATION NETWORK

LFCC
Lord Fairfax Community College

Executive Director

Instructional technologist/ digital librarian

Web/graphics designer

Project assistant

Database administrator

ASP.NET Lead programmer

knowledge 2work

A New Type of Search Engine and Portal
for Competencies and Credentials

Coming soon:

Knowledge to Work portal
knowledgetowork.com
lfcc.edu/k2w

● ● ● ● ●

Educational search engine
highered.org

John Milam, Ph.D.

Executive Director

Knowledge to Work

Lord Fairfax Community College

173 Skirmisher Lane

Middletown, VA 22645

(540) 868-7249

jmilam@lfcc.edu

http://lfcc.edu/k2w

Lyda Costello Kiser

Director, Office of Transition Programs

Title IX Coordinator

Lord Fairfax Community College

173 Skirmisher Lane

Middletown, VA 22645

(540) 869-0623

lkiser@lfcc.edu

LFCC
Lord Fairfax Community College

Knowledge to Work (K2W):

A Portal for Competencies and Individualized Learning

Lord Fairfax Community College (LFCC)

173 Skirmisher Lane

Middletown, VA 22645-1745

KnowledgeToWork.com

HigherEd.org

LFCC.edu