



E35 RE-DISCOVER CAREERS AND EDUCATION THROUGH 2020

MICHELE BROWN, OAKTON COMMUNITY COLLEGE
JULIE MARLATT, COLLEGE OF DUPAGE
DEBBIE MICHELINI, COLLEGE OF LAKE COUNTY

COMMUNITY COLLEGE STATS

- *6 million students each year - largest part of the nation's higher education system.*
- *64% of all students enrolled in Illinois public higher education are at a community college.*
- *Community Colleges are the primary provider of the higher education experience in Illinois.*
- *2013 Annual Illinois CC credit enrollments = 691,536*
- *93% Illinois CC Career and Technical Education (CTE) 2012 employed within 6 months after graduation.*

(source: whitehouse.gov and ICCB.org)

THE AMERICAN GRADUATION INITIATIVE

- *President Obama's proposal to invest in CCs*
- *Goal: US will lead the world with college graduates by 2020.*
- *CCs will produce an additional 5 mil grads*
- *Stronger American skills through community colleges*
- *Job-driven training – connecting ready-to-work Americans with ready to be-filled jobs*

SO...WHAT ARE CAREER PROGRAMS?

Prepare you for entry into a well-paid, in-demand career immediately after graduating from a CC.

- Geared for career and technical education*
- Not designed to transfer, however some A.A.S. degrees DO transfer. Most CC's have some articulated agreements with universities who accept A.A.S. degrees, allowing the student to complete bachelor's degree using most/all of the AAS credit.*

Student Example –

Thomas Strasser, CLC grad with AAS degree in Electrical Engineering Technology. Transferred and earned a BS in Industrial Technology from SIU, Carbondale. Currently Manager of a wind turbine service dept.

A.A.S. DEGREES VS. CERTIFICATES

- *Associate of Applied Science Degrees:*
 - *Obtain technical training and skills for specialty careers.*
 - *Normally 2 years of full time study.*
 - *Total Credit Hours between 60 to 72.*
 - *Designed for career education and not intended to transfer.*

- *Certificate Programs:*
 - *To obtain technical training and specific career training.*
 - *Allow people already working in that industry to add to skills.*
 - *Shorter time frame with less credit hours.*
 - *Fewer general education requirements.*
 - *Pursue one or more certificates, often one can build on another.*

STATE OF ILLINOIS EMPLOYMENT PROJECTIONS

Fastest percent growth in employment by 2018

Occupation	Job Growth
• <i>Biomedical Engineers</i>	<i>58%</i>
• <i>Home Health Aides</i>	<i>49%</i>
• <i>Network System/Data Analyst</i>	<i>46%</i>
• <i>Preschool Teachers</i>	<i>38%</i>
• <i>Occupational Therapist Aides</i>	<i>36%</i>
• <i>Personal/Home Care Aides</i>	<i>34%</i>
• <i>Physical Assistants</i>	<i>32%</i>

Source: Illinois Department of Employment Security

NATIONAL EMPLOYMENT PROJECTIONS

Occupations with the largest projected employment growth, 2010-2020

Occupation	Percent Growth
• <i>Personal Care Aides</i>	70.5%
• <i>Home Health Aides</i>	69.4%
• <i>Medical Secretaries</i>	41.3%
• <i>Medical Assistants</i>	30.9%
• <i>Registered Nurses</i>	26%
• <i>Physicians and Surgeons</i>	24.4%

Source: Illinois Department of Employment Security

NEW AND EMERGING CAREERS

Career Examples:

- *Hydroelectric Plant Technicians*
 - *Fuel Cell Engineers*
 - *Climate Change Analyst*
 - *Solar or Wind Energy Sales Reps*
 - *Photonics Technicians*
 - *Water Specialist*
 - *Mechatronics*
- (O*net online 5/2013)
- *President Obama education goals*
 - *Career Advisory Boards – county needs*
 - *US Dept. of Labor – grant funding*
 - *Examples @ CLC*
 - *Environmental Health & Safety*
 - *Photonics*

NEW AND EMERGING CAREERS

Photonics Technicians - Harnessing Light!

Most future technologies—energy, homeland security, green technologies and medical surgery and diagnostics—use light and lasers extensively.



“The field is growing so fast, the education system cannot keep up with the demand. There is a demonstrated need for 100 Photonics Technicians a year in the Chicagoland area with average salaries of \$55,000” - Steve Dulmes, CLC program chair

Greg Hinkley, Grayslake – CLC Photonics Certificate

- *I’m a Project Manager for Domino, a custom laser marking solution company in Lake County. In my 2 years with Domino, I have traveled extensively in the United States and overseas, working and learning with some of the best people in the industry on some truly cutting edge projects. I am currently finishing my Bachelors of Science in Electronic Systems Technology through the University Center/ Southern Illinois University”.*

NEW AND EMERGING CAREERS

Environmental Health & Safety

Industry certification in 5 areas –

- Environmental Law
- Advanced Air Monitoring
- Resource Conservation & Recovery Act Generator
- OSHA
- Hazardous Waste Operation & Emergency Response



Cynthia Williams, Antioch, Illinois – current student

“I have been seeking employment for quite some time that will financially support me. Difficult to do with only a HS degree! This field interests me, so I thought this could be a great opportunity for my future. I am very grateful to develop these skills. I’m highly motivated to do well, and look forward to a rewarding career”.

NEW AND EMERGING CAREERS

Go Green! Sustainability programs

Alternative Energy Technologies - wind, solar and geothermal energy s

. The wind energy industry estimates it alone will need 180,000 additional workers. Similar estimates are being made by the solar industry.



Sustainable Agriculture -

emerging specialty field growing quickly to find ways to economically maintain farm land & sustainable ways to support local food production - Gianna Fazioli, CLC *Local Foods Coordinator*



Natural Areas Management - land restoration using the science of restoration ecology & conservation biology

Hot Careers

Career	Salary	Job Growth
Computer Network Specialist	\$69,500	13%
Dental Hygienist	\$72,900	21%
Physical Therapist Assistant	\$54,500	26%
Registered Nurse	\$70,000	13%
Enviro. Engineering Technician	\$38,600	19%

Source: O*Net

Hot Careers

Career	Salary	Job Growth
Radiologic Technician	\$61,900	14%
Paralegal & Legal Assist.	\$52,800	22%



Source: O*Net

Hot Careers

Career	Salary	Job Growth
Occupational Therapist Assist.	\$54,800	26%
Computer User Support Specialist	\$48,100	13%
Marketing Specialist	\$58,600	34%

"I decided I wanted to be a nurse in eighth grade," she said. "My senior year in high school, I attended the Technology Center of DuPage to get my certification as a certified nursing assistant. When I took the prerequisites for nursing, I loved the faculty, the small class sizes, and the personal attention the teachers gave each student. "The school provides state-of-the-art facilities and lab equipment to prepare me for my future in becoming the best nurse I can be. "

-Kristina Doria

PATHS UNDER 1 YEAR

Certified Nursing Assistant			Certificate plus state certification	\$10-12.00 per hour
Sterile Processing Distribution Technician			Certificate / Degree (Certificate option with pre-requisites)	\$10.00 per hour
Emergency Medical Technician			Certificate & Certification	\$12.00 per hour
Phlebotomy/ EKG			Certification & National Certification	\$11-12.00 per hour
Physicians Billing & Coding			Certificate	\$12-15.00 per hour

1 YEAR PATHS – PART TIME

Physicians Billing & Coding		Certificate	\$12-15.00 per hour
Non-Invasive Cardiovascular		Certificate & National Certification	\$14-15.00 per hour
Cardiac Interventional Radiographer		Advanced Certificate	\$25- \$30.00 per hour
Long Term Care		Certificate	\$25.00 per hour

1 YEAR PATHS – FULL TIME

Surgical Technology		Certificate or +Gen Ed=AAS	\$13.50-17.50 Per hour
Polysomnographic Technologists		Advanced Certificate	\$20.00-35.00 Per hour
Paramedic		Certificate or Associate & Certification	\$20.00 Per hour

2 YEAR PATHS – PART TIME

Health Information Technology			Associate of Applied Science	\$17.-19.00 per hour
Physical Therapist Assistant			Associate of Applied Science	\$17.-25.00 per hour
Speech Language Pathology			Associate of Applied Science	\$17.-21.00 per hour \$30.-40.00 early intervention

2 YEAR PATHS – FULL TIME

Clinical Lab Science	Associate of Applied Science	\$16-18.00 Per hour
Dental Hygiene	Associate of Applied Science	\$29.00 Per hour
Diagnostic Medical Imaging Radiography	Associate of Applied Science	\$20-22.00 Per hour
Medical Assistant	Associate of Applied Science	\$13-14.00 Per hour
Nursing (RN)	Associate of Applied Science	\$23.00–34.00 Per hour
Respiratory Care	Associate of Applied Science	\$18-20.00 Per hour

ADVANCED PATHS

Mammography			Advanced Certificate	\$25-30.00 per hour
Diagnostic Medical Imaging Vascular			Advanced Certificate	\$30-35.00 per hour
Radiation Therapy			Advanced Certificate	\$25-30.00 per hour
Diagnostic Medical Imaging Sonography			Advanced Certificate	\$30-35.00 per hour
Nuclear Medicine			Advanced Certificate	\$23-30.00 per hour

ADDITIONAL PATHS

- 3+1 Program
- Enhanced 2 + 2
- Articulation Agreements
- *"What I love about the program is the hands-on experience," she said. "I am physically doing tasks that once I'm working in the industry I'll be doing every day. Four-year schools don't have facilities like this." Her goal is to transfer and earn a bachelor's degree in Hospitality Management. She was among the first students to take advantage of College of DuPage's 3+1 agreement with Roosevelt University.*
- **Kelli Jones**



Resources

- O*NET <http://www.onetonline.org/>
- NACE <https://www.naceweb.org/>
- U.S. Bureau of Labor Statistics-
Occupational Outlook Handbook
<http://www.bls.gov/ooh/>
- My Next Move
<http://www.mynextmove.org/>
- Explore HEATLH Careers
www.explorehealthcareers.org

Resources

- Career Profile

<http://www.careerprofiles.info/health-careers.html>

- Green Careers Guide

<http://www.greencareersguide.com/>

- Demand Occupation List

http://www.lakecountyjobcenter.com/Documents/Regional_Occupation_List_2011-05-25%20Pages%2037-51.pdf

- Illinois Department of Employment Security <http://www.ides.illinois.gov/>

Resources

- Oakton Community College Career Services
http://www.oakton.edu/student-services/career_services/resources/career_research/high_growth/index.php
- Oakton student Judy Cabael states “Enrolling in Oakton’s B.N.A.T. program was the best decision I’ve made yet,” “The Scholarship I received makes my first two years of college extremely affordable.”





Oakton student Angel Pearson

Angel enrolled in Oakton's 16-week Basic Nurse Assistant Training (BNAT) program, passing the State Competency Exam and obtaining her Certified Nursing Assistant (CNA) license. Now she is completing prerequisites for the nursing program with hopes of earning her bachelor of science in nursing.



QUESTIONS?

Michele Brown, mbrown@oakton.edu

Julie Marlatt, marlattj@cod.edu

Debbie Michelini, dmichelini@clcillinois.edu