

NJ PATHWAYS

Aligning Education to Build an Innovative Workforce

AGENDA

- Health Care Technology & Administration at Brookdale Community College and Essex County College
- Pathways of the Center of Workforce Innovation for Health Care Technology & Administration
- An Introduction to HIMSS Health Information Management Systems Society
- Industry Panel Discussion



WELCOME



Community College)



OPENING REMARKS







HOSTED BY







HEALTH INFORMATION TECHNOLOGY

Essex County College and Brookdale Community College



Dr. Elvy M. Vieira,

Dean, Community, Continuing Education and Workforce Development Dean, Academic Affairs (Essex County College)



Susan Pagano, Ed.D.

Acting Dean, Office of Continuing & Professional Studies (Brookdale Community College)



Scott Shanes

Program Manager, Healthcare Training Office of Continuing & Professional Studies (Brookdale Community College)







Dr. Elvy M. Vieira, Dean Community, Continuing Education and Workforce Development Academic Affairs

INDUSTRY OVERVIEW:

The Healthcare Technology and Administration (HTA) industry is rapidly evolving and expanding in response to the proliferation of new technology applications in all sectors of healthcare.

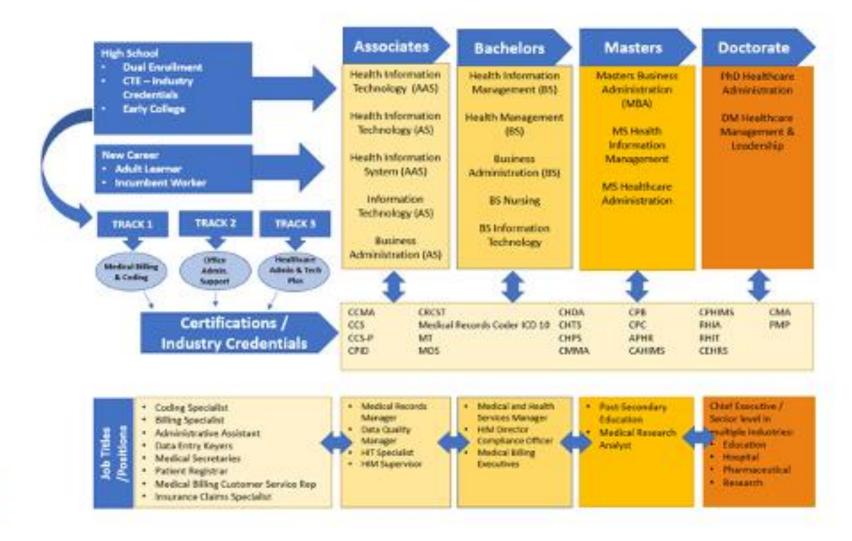
Two related, yet independent fields in HTA, Health Information Management (HIM) and Health Informatics (HI), have been identified as the HTA workforce pathways.

The HIM and HI professional pathways are not linear. There is a myriad of entry points into the HTA industry through a multitude of certifications and industry credentials as well as degree options and industry experience.





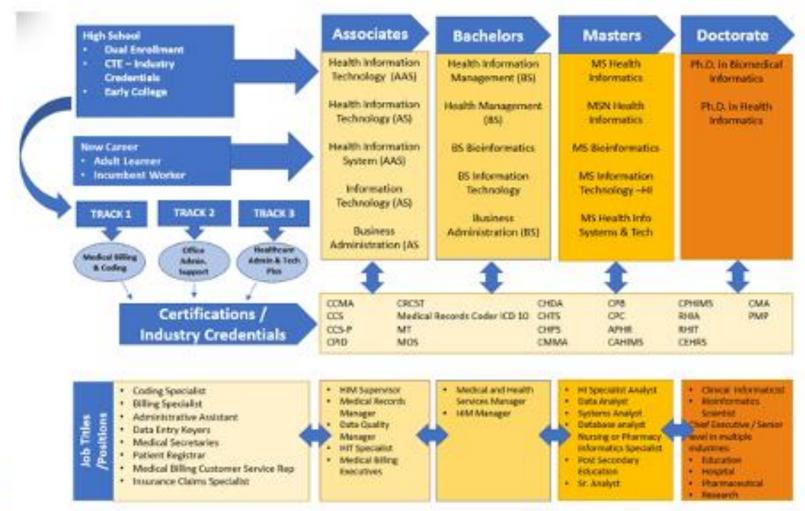
PATHWAY 1: HEALTH INFORMATION MANAGEMENT (HIM)





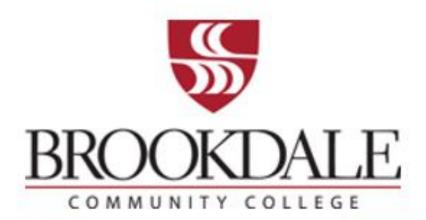


PATHWAY 2: HEALTH INFORMATICS











Susan Pagano, Ed.D.
Acting Dean
Office of Continuing & Professional Studies
Brookdale Community College



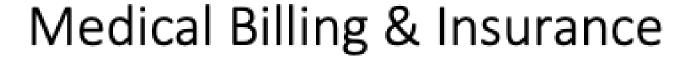
Scott Shanes
Program Manager, Healthcare Training
Office of Continuing & Professional Studies
Brookdale Community College



Medical Coding Specialist

- 135 hours
- Online
- Medical Coding National Certification through the American Academy of Professional Coders (AAPC)
- Eligible for 3 college credits for Medical Terminology







- 84 hours
- Hybrid
- Medical Billing National Certification through AAPC







- 300 hours
- Flexible delivery options
- Microsoft Office Specialist Certification in Word
- Eligible for 3 college credits for Information Technology





- 45 hours
- Online
- Associate Professional of Human Resources (aPHR) through Human Resources Certification Institute (HRCI)
- Redesign curriculum to be eligible for credit





Customer Service



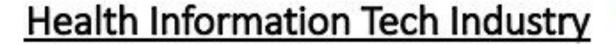
- 15 hours
- Online
- Redesign curriculum to asynchronous modality



Pathway to Associate Degree

 Non-credit courses are being evaluated for credit toward Health Information Technology AAS degree at Essex County College







Who can enroll and benefit from this program?

- Adult professionals
- · Freshman students
- Professionals in the medical field that need to transition

High School Pathways

Current offerings

- AS in Business Administration
- AA in Liberal Arts

Future offerings

- Associate in Health Information Tech
- Associate in Data Analytics



ECC Non-Credit Offerings



Medical Billing (2017 – 2021)

72 students received certifications from Certified Billing and Coding Specialist through the National Healthcareer Association

Reviewing existing non-credit certificate programs to assess employer needs and career pathways.

Select non-credit courses offered in the Allied Health Programs, such as **Medical Terminology, Anatomy, and Physiology** are being reviewed for possible transferable credits towards the AAS in HIT degree.



- In keeping with the mission of Essex County College, the partnership programs
 provide educational programming that foster readiness, retention and success for
 all students.
- Taking Essex County College courses while in high school help students to prepare for the social and academic requirements of college while having the additional support available to high school students.



TRADITIONAL



ESSEX COUNTY COLLEGE



Parents pay for students to attend



School Districts pay for students to attend



Students attend classes at the Community College



Students attend first 30 credits at the High School and transition to ECC for the remainder of credits (30)



Small Minority Participation

89%

Minority Students-African American/Black and Hispanic/Latino



Program of Privilege



Program of Social Equity

DUAL ENROLLMENT/ EARLY COLLEGE MODELS

ECC currently has dual enrollment agreements with high schools and charter schools in Newark and Essex County.

Average unduplicated number of students served 900+.





18 **Essex County** High Schools participated



Courses Offered

Options



Associate Degree



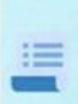
34% Hispanic/Latino

11%



61% Female

39% Male



661 Total Credits Earned by **HS Students**

5.7 Average # Credits Earned Per HS Student

96 Essex County High School Students Graduated with an ECC A.A. or A.S. in. June 2022

3 High Schools

\$87 Thousand

Tuition Money Saved Students and Families

100%



Participating high schools have student populations greater than 85% who receive free / reduced lunch = SOCIAL EQUITY

MORE STATS

- 76% Courses Offered at High School / 21% Virtual / 3% ECC Campus
- · 80 A.A. in Liberal Arts and 16 A.S. in Business Administration Degrees Awarded
- 57% Courses Were Taught By ECC Adjunct Faculty / 43% High School Teachers Approved By ECC
- Courses Offered: 49% Humanities / 21% Science / 21% Social Sciences / 9% Business
- High Schools Pay 100% Tuition & Fees





ECC faculty is reviewing and aligning our existing HIT AAS 60 credit courses to meet current industry sector specific needs, as well as ensuring our HIT degree has transferability to Rutgers HIM degree program.

HEALTH INFORMATION TECHNOLOGY - AAS (2124)

Division Mathematics. Engineering Technologies and Computer Sciences (METCS) Division

Code .	Title	Credits
General Educ	ation Requirements (23 Credits)	
Britten & Oral	Communication (IQ)	
£34G 161	College Composition I	3
ENG 105	Technical Writing	3
Quartitative/S	Icremito Krewledge, (Salls & Reasoning (E)	
MTH 100	Intro. to College Mathematics	- 4
BIO 121	Anatomy & Physiology I	4
Society & Hum	san (liehavor (K)	
PSY 101	General Psychology I	
90C 101	Introduction to Sociology	- 1
Historical Per	gentive (III	
Select any His	story (HST) Course	- 3
Major Require	ements (21 Credits)	
HET THE	Intro-Hit Care&Pub Hit In U.S.	- 3
HET 100	Oust Sry Ethica&Compliance HTT	. 1
HT 100	Intr Electronic Health Records	- 3
MET 106	Fund WkFline Proc, to all Federage	- 1
HIT 106	tribo to Project Management	
HET 201	Intro Hit Info Mirgest, Systems	3
HIT 226	Health Info. Tech. Internalisp	- 3
Additional Co	urue Requiremento (16 Creditu)	
HSC 109	Medical Terminology	3
CSC 104	Network Fundamentals	3
CSC 137	totro, to Programming in Java	3
OS 137	Micro Computer Data Bases	
CSC 237	Enterprise Java Programming	
Total Credits		60

SUDM

- For an asplanation of why Coneral Education courses are included in this Program, please refer to the Section on General Education for an explanation of its Purpose and Requirements.
- 2 This plan assumes the student is eligible to enroll in College Level Courses (designated as 102 n, e.g., ENG 101 College Composition I, HST 101 World Civilization I, MTH 100 Intro. to College Mathematics). Placement results will determine College Level Readiness in English and Mathematics.





ALUMNI SPEAKER



Monae Haskins, BSN, RN

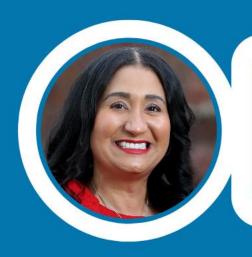
Board Member (HIMSS NJ Chapter)

Chair of Membership Committee (NJHIMSS)

Essex County College Alumna







Catherine Starghill, Esq.

VP & Executive Director, Strategy and Partnerships (NJCCC)





Health Information Management

Health Informatics

Health Information Management

Connection to High School (Dual Enrollment)

Create a new Dual Enrollment program that provides credit toward the Health Information Technology (HIT) AAS.





Health Information Management

Connection to Community College (Non Credit)

Create three tracks for entry points into the Health Informatics (HI) or Health Information & Management (HIM) pathways: (1) Medical Coding & Billing, (2) Healthcare Office Administration Support, and (3) Technology Plus.

Health Information Management

Connection to Community College (Credit)

Review existing Health Information Technology AAS 60 credits to align to current industry standards.





Health Information Management

Connection Between Community Colleges

Develop a 1 + 1 agreement between Brookdale Community College & Essex County College for the Health Information Technology (HIT) AAS at Essex County College.

Health Information Management

Connection to 4- Year Universities

Develop articulation agreements to Health Information Management BS with Rutgers University.





Health Information Management

Adult Learners

Develop a 30 credit HIM Academic
Certificate as an additional pathway for
adult learners and unemployed individuals
that embeds the stackable credentials as
identified by Health Information
Management Systems Society (HIMSS) for
credit toward the Health Information
Technology AAS.

Health Information Management

Experiential Learning

HIMSS will create an experiential learning program and provide technical assistance to employers starting-up new internship and experiential learning programs.





Health Information Management

Professional Development

HIMSS will create:

- An Academic Organizational Affiliate program for NJ CCs to provide resources for credentials.
- A NJ Community College specific Learning
 Management System platform for HIT professionals.
 (HIMSS will create a group for NJCCC to engage and network within the group. The platform can host session recordings, communicate events and activities, and create opportunities to network to a broader HIT audience.)

Health Informatics

Adult Learners

Develop 30 credit Health Informatics Academic Certificate as an additional pathway for adult learners or unemployed individuals that embeds the identified stackable Health Information Technology (HIT) credentials into the Health Information Technology AAS.





PATHWAY:Health Informatics

Adult Literacy

Embed HIT credentials identified by Health Information Management Systems Society (HIMSS) from the academic certificate into existing adult literacy programs.

PATHWAY:Health Informatics

Adult Learners / Pilot Program

Implement a pilot program in partnership with the Monmouth County Workforce Development Board (WDB) to serve both the unemployed and underemployed. Participants will enroll through Brookdale Community College's Continuing Education Department into one of the three tracks offered for the Health Information Technology AAS. Center and WDB funding will be braided. The WDB will provide employer partners to ensure employment for participants.





GIVE US YOUR FEEDBACK







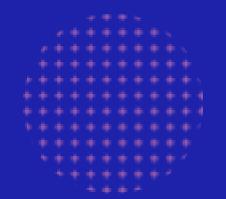
AN INTRODUCTION TO HIMSS Health Information Management Systems Society



Dana Castro

Director, HIMSS Institute





An Introduction to HIMSS

Health Information Management Systems Society



HIMSS is a global advisor and thought leader supporting the transformation of the health ecosystem through information and technology.

As a mission-driven non-profit, HIMSS offers a unique depth and breadth of expertise in health innovation, public policy, workforce development, research, and analytics to advise global leaders, stakeholders, and influencers on best practices in health information and technology.

With more than 350 employees, HIMSS has operations in:
North America | Asia Pacific | Europe | Latin America | Middle East | United Kingdom





To realize the full health potential of every human, everywhere.

Mission

Reform the global health ecosystem through the power of information and technology.





World patient population impacted by healthcare institutions using the standards of HIMSS Maturity Models:

796M



Engagement

COMING TOGETHER TO SERVE THE GREATER GOOD

Over 1.6 million touch points and counting!



120,000+

Individual Members



22,200+

Volunteers



1,000+

Industry Relationships



70+

Chapters & Global Communities



723,000+

Social Media Followers



6,000

Startups & Entrepreneurs



80,000+

Health Systems



500+

Non-Profit Partners



Labor Market Data





OCCUPATIONS	EMPLOYMENT		
	2018 Atual	2028 Projection	2028 Projected
Total NJ Occupations	4,400,060	4,649,57	> 14K
Total Centers of Workforce Innovation Occupations	1,510,000	1,650,0	new jobs
HEALTH SERVICES			
Direct Patient Care	325,320	372,540	13%
Healthcare Technology and Administration	108,640	123,040	12%
INNOVATION AND TECHNOLOGY			
Cybersecurity	22,390	23,130	3%
Data Science	19,080	20,350	6%
Programming and Software Development	241,870	262,720	8%
Research and Development	31,270	33,700	7%
INFRASTRUCTURE AND ENERGY			
Construction	184,710	198,090	7%
Renewable Energy	17,470	19,030	8%
MANUFACTURING & SUPPLY CHAIN MANAGEMENT			
Logistics and Supply Chain Management	406,410	440,220	8%
Manufacturing Production Technology & Engineering	152,840	157,240	3%

Center of Workforce Innovation — Healthcare Technology Pathway 1- Health Information Management & Administration

Deliverable 1
Connection
to High
School
(Dual
Enrollment)
Create a new
Dual
Enrollment
program that
provides
credit toward
the Health
Information
Technology
(HIT) AAS.

Deliverable 2 Connection to Community College (Non Credit) Create three tracks for entry point into the Health. Informatics (HI) or Health. Information & Management (HIM) pathways: (1) Medical Coding & Billing, (2) Healthcare. Office Administration Support, and (3) Technology Plus.

Deliverable 3 Connection to Community College (Credit) Review existing Health Information. Technology AAS 60 credit to align to current industry standards.

Deliverable 4 Connection Between Community Colleges Develop a 1+1 agreement between Brookdale Community College & Essex County College for the Health. Information Technology (HIT) AAS at Essex County College.

Deliverable 6 Deliverable 5 Connection to Adult Learners Develop a 30 4- Year credit HIM. Universities Academic Develop Certificate as an articulation additional agreements to pathway for Health. adult learners Information and unemployed Management individuals that BS with Rutgers embeds the University. stackable. credentials as identified by Health. Information Management Systems Society (HIMSS) for credit toward the Health.

Information

Technology AAS.

Deliverable 7 Experiential Learning HIMSS will create an experiential learning program and provide technical assistance to employers starting-up new internship and experiential learning programs.

Deliverable 8 Professional Development HIMSS will create: -An Academic Organizational Affiliate program for NJ CCs to provide resources for credentials. A NJ Community College specific Learning Management System platform for HIT professionals. (HIMSS will create a group for NJCCC to engage and network within the group. The platform can host session recordings, communicate events and activities, and create opportunities to network to a broader HIT audience.)

Centers of Workforce Innovation — Healthcare Technology & Administration

Pathway 2 – Health Informatics**

Deliverable 1

Adult Learners

Develop 30 credit
Health Informatics
Academic Certificate
as an additional
pathway for adult
learners or
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Deliverable 3

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HIMSS Roles

- To meet current industry sector-specific needs conduct a comprehensive NJ labor market analysis
- Assist in integrating HIMS Industry-Value Credentials in dual enrollment & CC programs
- Consult on the curriculum for modernization
- Promote HIM Career Pathways to grow enrollment
- Collaborate with industry on designing realworld experiences for students





NJ HIMSS Chapter Board



Executive Officers



Bryan Welsh President, NJ HIMSS Chapter Director, Application Services Hunterdon Health



Bala Thirumalainambi Vice President, NJ HIMSS Chapter Sr. Director, interoperability and Healthcare Policy Andor



Jim Hennessy Secretary, NJ HIMSS Chapter Chief Executive Officer



Jennifer D'Angelo Treasurer, NJ HIMSS Chapter Senior Vice President and General Manager Healthcare Division New Jersey innovation institute

Board Members

Michael Fortino Account Executive GalaxE Solutions

Dr. Kennedy Ganti, MD, FAAFP Past President, NJ HIMSS Chapter Physician informatician Cooper University Health Care

Casey Hafford Director of Strategic Accounts Roundtable Strategic Solutions

Monge Haskins, BSN RN Application System Analyst Atlantic Health

Edward Henry Director of Technology Princeton Healthcare System

Christine McBride Program Manager Collective Medical

Arturo Peralta Director IT Population Health. Physician Ambulatory Services, Anciliary Systems St. Joseph's Healthcare System Dr. Anthony Rosania MD, MHA Medical Director of Emergency Department Observation Services Rutgers NJ Medical School

Julia Staas AVP of Technology Virtua Health

Jennifer Leatherbarrow Vice President of Informatics Complete Care Management Daniel Baez Director IT, Clinical Applications Riverside Medical Group

Michele Quigley IT&S Director RWJBarnabas Health

Deb Quinton Director IT Operations Virtua Health



Industry Panel Discussion



Bryan Welsh
President, NJ HIMSS Chapter
Director, Application Services
Hunterdon Health



Vasil Vykhopen
Founder of TrustElements &
CEO at Exelegent



Dana Castro
Director
HIMSS







In this high-growth, high-demand industry, the collaboration between academia & employers is critical to fill jobs. How do we leverage NJ Pathways to strengthen these collaborations?

Education

Modernize Programs

Credentials

Industry-valued certifications Awareness

Skills and Competencies in greatest demand





Hiring is more competitive and onboarding employees are more complex than before. How might Community Colleges support employers better?

Employability & Recruitment Transition to Employment
Onboarding, organizational
culture, remote/hybrid



Diversity, Equity, Inclusion

What changes are you seeing to attract a more diverse workforce & how can Community Colleges support Industry's DEI efforts?

Gender Equality
Women in Tech

Belonging
First-Generation Students
Non-Traditional Students

Representation
Underprivileged & Disadvantaged
Individuals & Communities





Register for the morning and afternoon collaborative sessions on November 16

REGISTER FOR Upcoming Collaboratives

Technology & Innovation Collaborative

Data Science | Research & Development

November 16, 2022 County College of Morris Networking Lunch



#NJPATHWAYS

- @NJCommColleges
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NJPathways.org

