

Congratulations Graduates

HEALTH INFORMATICS: THE FOREFRONT OF TECHNOLOGICAL INNOVATION IN HEALTH CARE.

Debra Duncan



HealthCare

Agenda

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Introduction/Definition

You would be hard-pressed to find an aspect of medicine that has yet to be touched by the mass collection and analysis of data that has been ushered in by the Information Age.



50% of all dollars spent on healthcare is wasted on inefficient processes.
(University of Illinois)

Introduction/Definition

Nurses on the frontline of patient care feel the impact of changes in best practices more than anyone.



UNDERSTANDING THE HITECH ACT

Legislation



Forecast

- **Bureau of Labor** - 2010 – 2020 - 21% growth - 500,000 new jobs
- **HIMSS** - 2014 average salary over \$100K; nurse informatics specialist \$66K; director of nurse informatics \$140K
- **UK Healthcare** – new EHR will generate 225 new informatics jobs!



Innovation/Outcomes

Seven Ways Informatics Impacts Healthcare

- 1.Improves coordination
- 2.Saves money
- 3.Manages population health
- 4.Involves patient
- 5.Improves efficiency
- 6.Increases medical knowledge
- 7.Expands margin of care

Innovation/Outcomes

Case Study

UnityPoint Health

- 83% reduction number of clicks and keyboard interactions
- 150 hours saved annually
- 58% improvement number of patients receiving pulmonary functioning testing

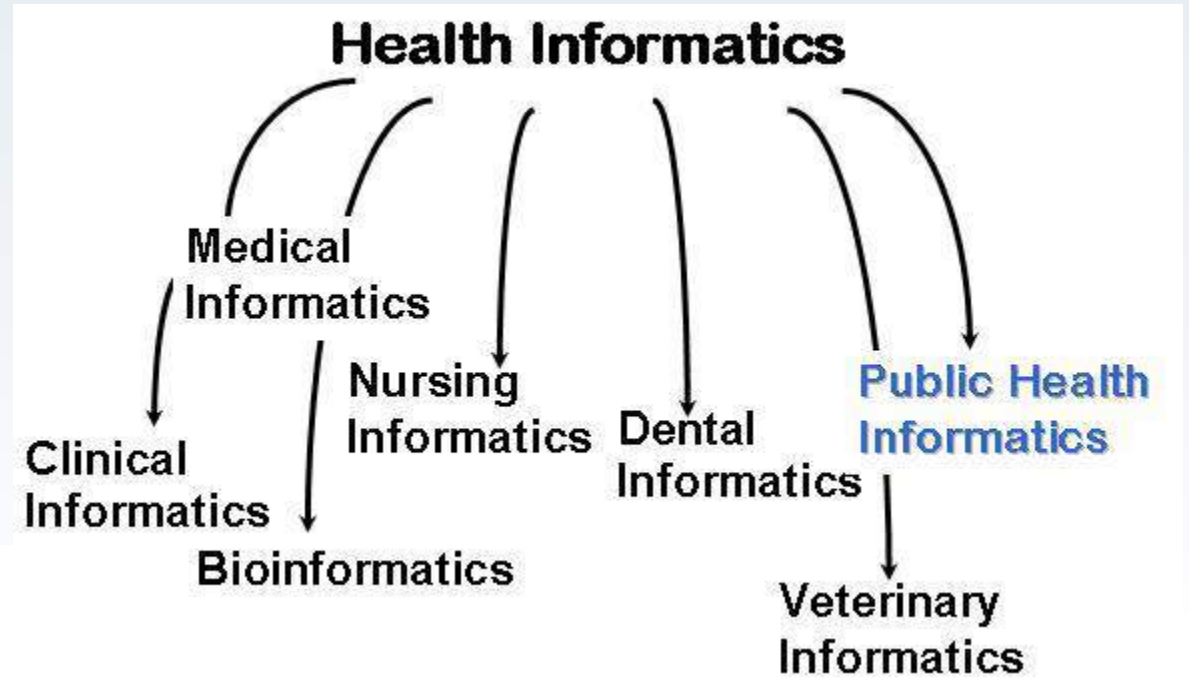


Titles & Fields

- ▶ Business Consultant
- ▶ Clinical Informatics
- ▶ Clinical Applications Specialist
- ▶ Clinical Coordinator
- ▶ Clinical Informatics Director
- ▶ Clinical Informatics Specialist
- ▶ Clinical Informatics Strategist
- ▶ Clinical Information Systems Director
- ▶ Consultant
- ▶ Director Clinical Information Services
- ▶ Nursing Information Systems Coordinator
- ▶ Data analyst
- ▶ Other

Health Informatics Job Titles:

- **Health Informatics** Consultant.
- **Health Informatics** Director.
- Nursing **Informatics** Specialist.
- Chief Medical Information Officer.
- Electronic Medical Record Keeper.
- **Healthcare** IT Project Manager.



Roles & Competencies

Five Top Skills Needed

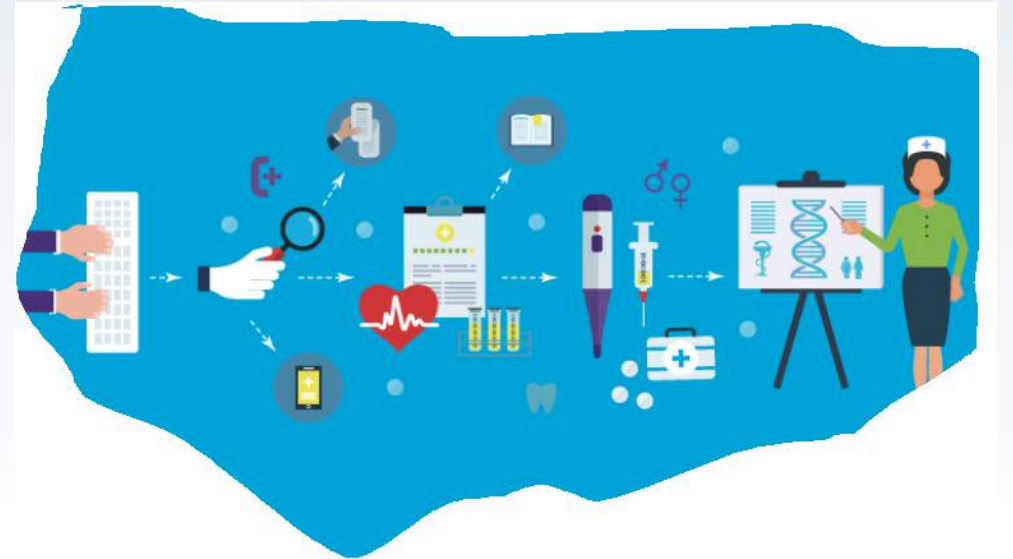
1. Interpersonal skills
2. Ability to problem solve
3. Programming knowledge
4. Communication skills
5. Ability to work with health data systems



Day in the Life

7:40 AM – Arrive to work
8 AM -Check calendar
8: 15 AM Check and answer emails that need immediate attention
9 AM – Check deadlines to prioritize work
9:15 AM – Check to-do list
9:30 AM – Design and program system according to client needs based on upcoming deadline
9:45 AM – Check and answer emails
10 AM – Meeting
12 Noon – Eat lunch at desk while answering emails
12:30 PM – Continue with programming the system
12:45 PM – Answering questions from colleagues or answering emails
12:55 PM – Continue with programming the system
2 PM – Finished programming and now documenting what I just build on spreadsheet
4 PM – Meeting either formal or informal with individual team members
5 PM – Eat dinner
5:30 PM – Look over next day's schedule
5:45 PM – Design and build system for next deadline
7:45 PM – Entering in my time worked on the project for the day

<http://mastersinhealthinformatics.com/2011/a-day-in-the-life-of-a-nurse-informaticist/>



Continuing Education

The ANCC offers [board certification](#) for nursing informatics. Eligibility for certification include:

- Hold a bachelor's degree or higher
- Have practiced as a registered nurse full time for two years (or part time equivalent)
- Have completed 30 hours of continuing education in nursing informatics within three years before certification
- Have met one of the following practice hour requirements:
 - Have practiced a minimum of 2,000 hours in informatics nursing within the prior three years
 - Have practiced a minimum of 1,000 hours in informatics nursing in the last three years and have completed a minimum of 12 semester hours of credit in informatics courses that are part of a graduate-level nursing informatics program
 - Have completed a graduate program in nursing informatics that includes a minimum of 200 hours of supervised practicum
- Certification is by exam, and the credential is valid for five years.

A **PIONEER** in Online Education



Relevant LEARNING

Walden offers **over 85** doctoral, master's, and bachelor's programs—including more than 435 specializations and concentrations. We also offer more than 55 certificates.



ACCREDITED Institution

In 1990 Walden was **accredited** by The Higher Learning Commission, just 20 years after its founding. Specialized accreditation demonstrates programs meet rigorous accreditation standards and prepare students for success.



Global REACH

Walden is the flagship online university in the *Laureate International Universities* network and has more than 165,000 students and alumni from all 50 U.S. states and more than 180 countries.



TEMPO[®] Learning By Walden

Walden offers its **competency-based education (CBE)** learning experience through Tempo Learning.

Focus on graduate education in **KEY PROGRAM AREAS:** Nursing, Health Sciences, Counseling, Social Work and Human Services, Psychology, Education, Public Policy and Administration, Management, and Information Technology

Curriculum: BS in Healthcare Management

Master the business side of healthcare and move your career forward in a thriving, fast-growing field.

Key Information

Next Start Date **August 26, 2019**

Transfer Credits **Up to 135 credits**

Admission Requirements [▼](#)



Current Savings

Receive a \$6,000 grant if you have an Associate degree or higher, reside in the U.S., and start this program on August 26, 2019. Additional grants available based on your amount of Transfer of Credit. Contact one of our enrollment advisors to learn more.



Course-Based BS in Healthcare Management

Curriculum Component	Requirements	Cost	Total*
Tuition	181 total quarter credit hours	\$325 per quarter hour	\$58,825
Technology Fee	Per quarter	\$150	\$2,400
Total			\$61,225

Tuition for the competency-based BS in Healthcare Management is \$2,350 per three-month subscription period, inclusive of technology fees.

MS in Information Technology Degree Specializations

Walden's MS in Information Technology program offers a variety of specializations to help you meet your personal and professional goals.

Big Data Analytics

Health Informatics

Information Assurance and Cyber Security

Information Systems

Software Engineering

Curriculum Component	Requirements	Cost	Total*
Tuition	30 total semester credit hours	\$865 per semester hour	\$25,950
Technology Fee	Per semester	\$200	\$1,000
	Total		\$26,950
	<i>Transfer up to 15 credits</i>		<i>\$12,975</i>
	Total with Transfer Credits[†]		\$13,575

*The tuition reflects the minimum time to completion. Time to completion varies by student, depending on individual progress and credits transferred, if applicable. For a personalized estimate of your time to completion, call an enrollment advisor at [844-675-0896](tel:844-675-0896).

†Tuition and fees are subject to change. Books and materials are not included and may cost between \$1,000 and \$1,400.

‡Maximum transfer credit total includes reduction in technology fee as related to reduced number of courses over time.

Completion Requirements

- 30 total semester credits
- Core courses (12 sem. cr.)
- Specialization courses (18 sem. cr.)

This sequence represents the minimum time to completion. Time to completion will vary by student, depending on individual progress and credits transferred, if applicable. For a personalized estimate of your time to completion, call an enrollment advisor at [844-767-9524](tel:844-767-9524).

Core Courses

Course Code	Course	Credits
ITEC 6111	Information Technology in the Organization	(3 sem. cr.)
ITEC 6115	Computer Networking and Operating Systems	(3 sem. cr.)
ITEC 6145	Enterprise Database Design	(3 sem. cr.)
ITEC 6030	Principles of Programming	(3 sem. cr.)

Specialization Courses

Course Code	Course	Credits
ITEC 6712	Business Architecture and Process	(3 cr.)
ITEC 6721	Organizational and Social Dimensions of Information Systems	(3 sem. cr.)
ITEC 6713	Business Strategy for Competitive Advantage	(3 sem. cr.)
ITEC 6600	Foundations of Health Informatics	(3 sem. cr.)
ITEC 6631	Information Systems Management	(3 sem. cr.)
ITEC 6645	Representation of Health Information	(3 sem. cr.)

WALDEN UNIVERSITY - NURSING PROGRAMS

Full suite of degree level offerings:

Bachelor's, Master's, Post Master's Certificates, Doctoral PhD in Nursing and CCNE-accredited DNP, MSN, and BSN with over 14,000 students.

Walden offers multiple pathways to a nursing degree, depending on your goals and where you are in your nursing education journey.



Time to completion may vary by student depending on individual progress and credits transferred, if applicable.

BSN Pathways

- RN-BSN completion program
- NEW Competency Based RN to BSN
- Accelerated into Masters (RN-BSN-MSN)

MSN Specializations Available:

- Nursing Executive
- Nursing Education
- Nursing Informatics
- Nursing Public Health
- Adult-Gerontology Nursing Practitioner
- Adult-Gerontology Acute Care Nursing Practitioner
- Family Nurse Practitioner
- Psychiatric-Mental Health Nurse Practitioner



WALDENU.EDU

Master of Science in Nursing (MSN) - Nursing Informatics

Learn how to integrate nursing science, computer science, and information science to effectively manage and communicate data in your field with our online MSN Nursing Informatics specialization.

Key Information

Next Start Date August 26, 2019

Accreditation CCNE Accredited

Transfer Credits variable

Admission

Current Savings



Receive up to a \$7,500 Scholarship if you reside in the U.S. and start this program on August 26, 2019. Contact one of our enrollment advisors to learn more.

BSN Track

Curriculum Component	Requirements	Cost	Total*
Tuition	53 total quarter credit hours	\$450 per quarter hour	\$23,850
Technology Fee	Per quarter	\$150	\$900
Total			\$24,750
Transfer up to 25 credits			\$11,700
Total with Maximum Transfer Credits*			\$13,050

RN Track

Curriculum Component	Requirements	Cost	Total*
Tuition	26 total RN Foundational quarter credit hours	\$395 per quarter hour	\$10,270
	53 total MSN quarter credit hours	\$450 per quarter hour	\$23,850
Technology Fee	Per quarter	\$150	\$1,200
Total			\$35,320
Transfer up to 35 credits*			\$15,800
Total with Maximum Transfer Credits*			\$19,520

Scholarships and Grants



More Information

1. Name
2. Phone
3. Email
4. City/State
5. Program of Interest

Debra.duncan@waldenu.edu

919-200-3489



Congratulations Graduates

“Data that is loved tends to survive.” — Kurt Bollacker

<https://www.cisc-llc.com/7-ways-health-informatics-transforms-health-care/>

<https://medium.com/sjsuischool/informatics-careers-what-it-takes-and-how-to-get-there-6f98a1795bc>

<https://explorehealthcareers.org/field/informatics/>

<https://computing.louisiana.edu/informatics/what-can-i-do-degree-informatics>

<http://www.columbia.edu/itc/hs/nursing/m8120/misc/ppt/What%20is%20Informatics.ppt>

<https://www.healthcatalyst.com/knowledge-center/success-stories/>

<https://www.mba-healthcare-management.com/faq/what-are-the-newest-trends-in-the-health-informatics-field/>

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4825491/>

References

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<https://www.registerednursing.org/nursing-informatics/>

<https://www.allnursingschools.com/nursing-informatics/>

<https://www.owlguru.com/day-in-life-of-informatics-nurse-specialists/>

WALDEN UNIVERSITY – On Demand CE

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SUPPORTING YOUR PROFESSIONAL DEVELOPMENT NEEDS THROUGH FREE

On-Demand Webinars

From clinical topics, to self-care and emerging trends, Walden's on-demand webinars are designed to help you thrive in all aspects of your career.

*Additionally, you may be eligible to earn CNE credits for attending a webinar and completing the evaluation.**

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- Self-Care:**
 - "Stress Management: Self-Care for Nurses"
 - "Refilling Your Cup"
 - "Avoiding Burnout"
- Emerging Trends in Healthcare:**
 - "Healthcare Screening for Hidden Issues: Domestic Violence and Abuse"
 - "Healthcare Screening for Hidden Issues: Human Trafficking"
 - "Opioid Prescribing: Safe Practice, Changing Lives"
 - "Addressing the Behavioral and Health Literacy Needs of a Population"
- Clinical Topics:**
 - "Emerging Infectious Diseases"
 - "Implementation Methodologies and Application of EBP"
 - "Certification Beyond the Bedside"
 - "Nursing Informatics Series: Dear Future... Bring it on!"
 - "The Process of Critically Evaluating Resources and Research Literature"
- Leadership:**
 - "Eliminating Bullying Behaviors to Create a Healthy Work Environment"
 - "Leadership Strategies for Advancing Evidence"

VIEW THE WEBINARS: WALDENU.EDU/WEBINARSERIES

WALDEN UNIVERSITY
2019 HEALTHCARE WEBINAR SERIES:

REPLENISH REENERGIZE & refocus

- OPIOID PRESCRIBING: SAFE PRACTICE, CHANGING LIVES**
EARN 1 CONTACT HOUR
Learn about guidelines for patient selection and assessment of risks associated with opioid use for long-term management of chronic pain, initiation and modification of BUPA opioid therapy, ongoing monitoring, and patient and caregiver education. This program also includes discussion of pain, immediate-release opioids, cannabis, addiction, and CDC guidelines.
- STRESS MANAGEMENT**
EARN 1 CONTACT HOUR
Being a nurse is extremely rewarding, but it can also be extremely stressful, but it is one of the most important self-care techniques that nurses can practice. In this engaging session, Dr. Debra Rose Wilson offers effective stress management strategies for both personal and professional settings.
- INTRODUCTION TO MENTORING IN THE CAREER TRAJECTORY OF A NURSE**
EARN 1 CONTACT HOUR
This webinar session describes the benefits of mentoring for individual nurses and the organizations in which they work. Dr. Louise Jakubik will explore the definition, evidence base, purpose, and timing of mentoring in the career trajectory of a nurse. Mentoring provides the building blocks for nurses to enrich, enlighten, and advance their careers while creating work environments that support employee engagement, retention, and succession planning.
- THE ART AND SCIENCE OF APOLOGY**
Apologizing is both an art and a science. The science is the list of elements that, when merged, will form the "perfect" apology. The art, on the other hand, deals with the surrounding components that make an apology more relevant, effective, and successful.
- THE BALANCING ACT: TIME MANAGEMENT TIPS**
If you've made the decision to earn your degree online, you may be wondering how you'll keep up with your education while balancing work and family commitments. Time management is an important place to start. In this webinar, hear from Walden graduate, Dr. Sherice Shavel, as she discusses tips and tools you will need to complete your assignments, and discover new ways to stay organized and work more efficiently.
- COACHING, COUNSELING, AND DISCIPLINE**
Today's diverse workforce has great potential for high performance. To make the most of that potential, a performance management system grounded in respectful communication and collaboration for all employees is critical. Through practical examples, this webinar will examine a performance management system that addresses the need for structure within a culture of creativity and innovation.

VIEW WEBINARS AND LEARN MORE:
WaldenU.edu/HCA

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Appendix


Introduction/Definition

Nursing	Nursing Informatics
Nurses, patients, health, environment	Nursing data, information, and knowledge
Content of information	Design, structure and presentation of information as it impacts nurses' decision-making
Using information applications and technology	Optimizing information structures, applications and technology for use in managing and communicating data, information and knowledge



Source: ANA. (2001, proposed). The Scope of Practice of Nursing Informatics and the Standards of Practice and Professional Performance for the Informatics Nurse Specialist

WALDEN UNIVERSITY – At a Glance



UNIVERSITY ACCREDITATION

by The Higher Learning Commission (HLC), as well as specialized accreditations, including CSWE, CCNE, CACREP, and NCATE


— Received 2016, 2017, and 2018 —
OLC® EFFECTIVE PRACTICE AWARDS
for our student and faculty support services

*Online Learning Consortium

MORE THAN 97%


of our graduates' employers who responded to our survey say they would hire another **WALDEN GRADUATE.**

Source: www.WaldenU.edu/survey_methodology
% calculated on total number of respondents to our 2015 survey.



Walden is a **CERTIFIED B CORPORATION®**,
using business as a force for good

MINORITIES MAKE UP MORE THAN HALF OF OUR STUDENTS.*



55,000+ STUDENTS'

from all **50 U.S. states**
and more than **150 countries**


RANKED No.1

for conferring graduate degrees in multiple disciplines to **AFRICAN-AMERICAN STUDENTS'**


*Source: Walden University Office of Institutional Research and Assessment, based on 2017-18 enrollment and the 2017 Student Satisfaction Survey (total enrollment as of December 31, 2017)
Source: Chronicle of Higher Education, "2016 Top 100 Degree Producers," analysis of U.S. Department of Education reports submitted by institutions, 2016-17 academic year, on the internet at chronicle.com/top100.

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MORE THAN 900 award-winning industry leaders



MORE THAN 165 award winners for excellence in teaching



MORE THAN 30 Fulbright scholars



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LEARNING AND DEVELOPMENT

through education designed for the working professional.

Source: Walden University Office of Institutional Research and Assessment, based on academic year 2016-17

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FACULTY LEADERSHIP



MORE THAN 900 award-winning industry leaders



MORE THAN 85 advisors and board members for professional and charitable organizations



MORE THAN 165 award winners for excellence in teaching



MORE THAN 30 Fulbright scholars



MORE THAN 250 fellows and competitive grant winners

Source: Walden University Office of Institutional Research and Assessment, based on academic year 2016-17

WALDENU.EDU/HCA