Nurse’s Touch™
Nursing Informatics and Technology
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Educator Implementation Guide

Nursing Informatics and Technology
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Description

Nurse’s Touch™ is a suite of tutorials and interactive simulation products that will enhance student’s knowledge, skills, and attitudes in regard to the professional skills of communication, leadership, professionalism, informatics/technology, and wellness/self-care. The suite consists of four tutorials and two interactive simulation products. The four tutorials offer media-rich content that includes embedded videos and video case studies. Access to a practice assessment and a standardized proctored assessment is provided with each tutorial. The two interactive simulation products deliver engaging client-related videos, examples of communication techniques, and charge nurse-related scenarios that demonstrate application of leadership concepts and decision-making. An educator package that includes an Educator Implementation Guide and a set of tutorial-related case studies and videos will also accompany each tutorial.

This Educator Implementation Guide will address the Nursing Informatics and Technology tutorial product.

Features

- Instructional content is presented for each topic in an interactive, media-rich manner.

- Videos that illustrate the content being presented are integrated throughout each module.

- Case studies at the end of each module apply the content to a client situation.
  - Five to 10 test items follow each case study to test application level knowledge.

- Ten-item tests with rationales accompany each module – score report available.

- One 50-item practice and one 60-item standardized proctored assessment provide summative evaluation of content
  - Practice and proctored assessments follow NCLEX format with alternate items.
Outcomes will be provided for:

- QSEN competencies
- Priority setting
- Thinking skills
- NCLEX client need categories
- Nursing process
- Body function

- User-friendly navigation.
- Audio narration guides students through each module. Closed caption option available with a click of the mouse.

Educator Package

- Educator Implementation Guide
- Two sets of video case studies: Those presented in tutorial and a new set for classroom use
- Set of embedded videos used in each tutorial

Benefits

- Promotes student success in nursing education.
  - Improves student’s comfort level with computerized communication and client care systems.
  - Facilitates a smoother transition to using informatics as a part of client care.
  - Supports student use of evidence-based practice.
  - Promotes student use of databases during the collection of evidence.
  - Provides practice with examples and real-life scenarios.
All students learn to:

- Integrate informatics into their professional role.
- Use informatics to monitor client trends, patterns, and outcomes.
- Use decision-making systems and evidence to reduce errors.
- Appreciate the importance of nurse-sensitive outcomes.
- Evaluate evidence for its credibility prior to integrating into practice.
- Recognize the need to educate consumers on how to evaluate information retrieved from the Internet for validity and credibility.
- Use a variety of electronic client records while safeguarding health information.
- Recognize the value and need for lifelong learning.
- Appreciate the need for telehealth in today’s society.
- Avoid taking personal and professional risks related to inappropriate use of social networks.
- Appreciate the value of blogs and forums in relation to professional networking.
- Review the boundaries that need to be maintained on virtual sites and integrate appropriately.

Promotes success in the clinical setting.

- Tutorial may be viewed repeatedly during the curriculum.
- Students can apply general principles of informatics to their practice.
- Decision-making systems can be used to facilitate clinical reasoning.
- Client identification, order entry, and medication safeguards will be integrated into their practice.
Steps taken to maintain information security will become an expected part of client care.

Enhances awareness of professional boundaries that must be maintained on ground and online.

- Promotes success in nursing practice.
  - Provides graduate with the skills and knowledge needed to appropriately use nursing informatics and technology.
  - Enhances establishment of lifelong behaviors in relation to using data to measure client outcomes.
  - Instills an appreciation for maintaining client confidentiality.
  - Promotes establishment of a professional network via profession-related blogs and forums.

- Supports faculty teaching practices.
  - Provides initial learning, in-time learning, and content review and practice.
  - Assign selected modules as an adjunct to lecture in any course.

**Recommended Use**

- Lecture aid
- Classroom discussion
- Independent study
- Preparation for standardized exams
- Preparation for clinical
- Clinical post-conference
- Remediation activity
- Preparation for NCLEX
- Preparation for initial position post-graduation
Implementation Strategies

- Perform a literature search in class using a nursing database.
- Develop a journal club that students and faculty can attend and share evidence-based research.
- Invite an agency or school nurse to attend class virtually to discuss and demonstrate telehealth.
- Have a class discussion on actual or potential threats regarding information security based on their own clinical experience.
- Divide students into small groups and have them identify a client issue with which they can develop a PICO question. Have them use evidence to support a resolution to the issue.
- Hold a class discussion to develop a list of criteria to use when determining the credibility of an Internet-retrieved resource.
- Using a rubric, measure students’ ability to maintain security of client information in the laboratory setting during simulation that uses a computer or electronic health record system.

Examples of Student Learning Activities

- Have students conduct a literature search on an assigned topic.
- Assign students a nursing-sensitive indicator and have them research articles that address interventions or protocols that have been developed to address the related client care issue.
- Interview a nurse manager or risk manager in relation to a client issue that is currently being monitored.
- Attend a quality improvement team meeting and develop a report that summarizes how client outcomes are being used to evaluate client care.
- Select a client-centered topic based on a clinical experience, and locate recent evidence-based practice to share with the group.
- Require students to develop a concept map on client care (i.e., alteration in health, medication, therapeutic treatment) and have them support their information with at least three sources from the literature.
- Locate instances in the news related to social networking issues.

- Have students locate a social networking site for professional nurses and engage in a practice-focused forum.

**Recommended Time Spent**

<table>
<thead>
<tr>
<th>Module</th>
<th>Time spent in module</th>
<th>Time spent in case studies</th>
<th>Time spent in test</th>
</tr>
</thead>
<tbody>
<tr>
<td>Informatics</td>
<td>1.5 hr</td>
<td>10 min total</td>
<td>10 min</td>
</tr>
<tr>
<td>Literacy Skills and Consumer Education Needs</td>
<td>1.5 hr</td>
<td>10 min total</td>
<td>10 min</td>
</tr>
<tr>
<td>Information Management Systems</td>
<td>2 hr</td>
<td>10 min total</td>
<td>10 min</td>
</tr>
<tr>
<td>Virtual Social Networks</td>
<td>1.5 hr</td>
<td>10 min total</td>
<td>10 min</td>
</tr>
</tbody>
</table>

**Product Support**

- At ATI, we pride ourselves on timely and effective support to meet your needs.

- Please contact us at 800-667-7531 if you need assistance with this product.

**Technical Requirements**

- For optimal testing experience, we recommended a wired network connection.

- Direct links to downloads for starred (*) programs are provided in the bottom right-hand corner of the ATI Student/Faculty Home Page under “Technical Requirements.”

- Silverlight 4 or higher*

- Adobe Acrobat Reader X or higher*

- Adobe Flash Player 11 or higher*

- Windows XP, Vista, or 7
  - Internet Explorer 7 or higher*
- Mozilla Firefox 9 or higher*

- Mac OS X 10.5 (Leopard) or higher
  - Mozilla Firefox 9 or higher*
  - Safari 5 or higher*

- Session time-out counter
  - Your browser must allow status bar updates via script for a session time-out counter to be visible.
## Details of Nursing Informatics and Technology

### Module 1: Informatics

- Introduction
- Definition and goals
- Regulation of information
- Role in relation to improving client care
- Language of nursing informatics
- Monitoring client trends, patterns, and outcomes
- Health information literacy/access
- Reporting data and use of evidence to reduce errors
- Nurse-sensitive outcomes
- Summary

### Module 2: Literacy Skills and Consumer Educational Needs

- Introduction
- Computer literacy skills
- Evidence-based practice
  - PICO question
  - Performing a literature search
  - Evaluating credibility of literature
- Integrating into nursing practice
  - Policy change
  - Journal clubs
  - Nursing Practice Research Council
  - Presentations and Publications
- Legal issues
- Evaluating websites/website information
- Health literacy for consumers
- Literacy skills and consumer education needs
- Consumers’ use/need for electronic information
- Summary
### Module 3: Information Management Systems

- Introduction
- Information management systems
- Electronic health records
  - Government mandates
  - Benefits
  - Standardized plans of care
  - Streamlining workflow
  - Documenting nursing care
- Computerized provider order entry
- Interprofessional care coordination
- Clinical decision support systems
- Characteristics of health information
- Privacy regulations
  - Threats to protected health information
  - External threats to information security
  - Organizational threats to information security
  - Personal threats to information security
- Safeguarding personal health information
  - Organizational safeguards/responsibility
  - Personal responsibility
  - Response to breach in security
- Advancing nursing knowledge, skills, practice, job performance
- Promoting lifelong learning
- Providing telehealth services
- Increasing individual expertise
- Advancing your informatics competencies
- Summary

### Module 4: Virtual Social Networks

- Introduction
- Virtual social networks
  - Social networking sites
  - Blogs
  - Forums
  - Avatars
- Information sharing
  - Client confidentiality
  - Personal electronic devices
  - Personal information sharing
- Professional boundaries/policies
- Summary
References


Skiba, D.J. (2010). The future of nursing and the informatics agenda. *Nursing Education Perspectives*. 31 (6), 390-1.