COLORADO STATE UNIVERSITY — GLOBAL —

NUR506: NURSING TECHNOLOGY AND HEALTH INFORMATICS

Credit Hours: 3

Contact Hours: This is a 3-credit course, offered in accelerated format. This means that 16 weeks of material is covered in 8 weeks. The exact number of hours per week that you can expect to spend on each course will vary based upon the weekly coursework, as well as your study style and preferences. You should plan to spend 14-20 hours per week in each course reading material, interacting on the discussion boards, writing papers, completing projects, and doing research.

Faculty Information: Faculty contact information and office hours can be found on the faculty profile page.

COURSE DESCRIPTION AND OUTCOMES

Course Description:

In this course, students will gain knowledge and skills related to technology and nursing informatics in a variety of healthcare settings. Students will learn how to use project management principles and technologies to enhance patient-care delivery, management, and clinical decision support. Nursing students will examine the role and ethics of telemedicine and evaluate approaches to patient care reliant on technology. Research from nursing and other disciplines regarding improving patient outcomes, cost effectiveness, and patient safety will be emphasized.

Course Overview:

In this course, you are provided with an extensive overview of healthcare informatics. Course emphasis is on the integration of nursing technology and information science in your professional nursing practice. Further, your clinical practice knowledge of healthcare informatics will serve as the foundation on which to build new information regarding technology systems, evidence-based practice in nursing, education, and communication in healthcare settings. Each week, you will build on the previous module's material through Critical Thinking Assignments and Discussion Board interactions to create a rich learning environment.

Course Learning Outcomes:

1. Compare different project management strategies and technologies available.
2. Discuss the impact of technology on clinical decision making.
3. Synthesize informatics and management of patient care.
4. Examine effective telemedicine practices.
5. Evaluate technology's impact on patient outcomes and safety.

Participation & Attendance

Prompt and consistent attendance in your online courses is essential for your success at CSU Global Campus. Failure to verify your attendance within the first 7 days of this course may result in your withdrawal. If for some reason you would like to drop a course, please contact your advisor.

Online classes have deadlines, assignments, and participation requirements just like on-campus classes. Budget your time carefully and keep an open line of communication with your instructor. If you are having technical problems, problems with your assignments, or other problems that are impeding your progress, let your instructor know as soon as possible.

COURSE MATERIALS

Required:

Hebda, T. L., Hunter, K., & Czar, P. (2019). *Handbook of informatics for nurses & healthcare professionals* (6th ed.). Upper Saddle River, NJ: Pearson. ISBN: 9780134677033 (print), ISBN: 9780134748436 (etext – Redshelf)

NOTE: All non-textbook required readings and materials necessary to complete assignments, discussions, and/or supplemental or required exercises are provided within the course itself. Please read through each course module carefully.

COURSE SCHEDULE

Due Dates

The Academic Week at CSU Global begins on Monday and ends the following Sunday.

- **Discussion Boards:** The original post must be completed by Thursday at 11:59 p.m. MT and Peer Responses posted by Sunday 11:59 p.m. MT. Late posts may not be awarded points.
- **Critical Thinking:** Assignments are due Sunday at 11:59 p.m. MT.

WEEKLY READING AND ASSIGNMENT DETAILS

Module 1

Readings

· Chapters 1, 2, & 3 in *The Handbook of Informatics for Nurses and Healthcare Professionals*

Discussion (25 points)

Critical Thinking (20 points)

Select one option to complete.

Option #1: Schedule an Interview – Pharmacist

Select a pharmacist from your local retail pharmacy or a pharmacist at the facility where you currently work and contact this pharmacist to schedule an interview. The interview can either take place this

week or early next week, but it must be conducted in time to complete the assignment due at the end of Module 2. Your interview can take place in person, over the phone, or via video conferencing. Specific questions for the interview are provided in the Module 2 Critical Thinking Assignment.

This week, you are required to submit, in a Word document, only the name of the pharmacist you have contacted, the pharmacy at which he or she works, and the date and time of your scheduled interview. Include a title page that is labeled Module 1, Critical Thinking Assignment, Option 1.

Option #2: Schedule an Interview – Physician

Select a physician or a physician assistant with whom you currently work (or it can be another physician – either your own or one you know) and contact this physician to schedule an interview. The interview can either take place this week or early next week, but it must be conducted in time to complete the assignment due at the end of Module 2. Your interview can take place in person, over the phone, or via video conferencing. Specific questions for the interview are provided in the Module 2 Critical Thinking Assignment.

This week, you are required to only submit the name of the physician you have contacted, the clinic or hospital at which he or she works, and the date and time of your scheduled interview. Include a title page that is labeled Module 1, Critical Thinking Assignment, Option 2.

Module 2

Readings

· Chapters 4, 5, & 6 in *The Handbook of Informatics for Nurses and Healthcare Professionals*

Discussion (25 points)

Critical Thinking (100 points)

Complete the same option as you did in Module 1.

OPTION #1: Pharmacist Interview and Summary

If you selected Option 1 in the Module 1 Critical Thinking Assignment, be sure to complete Option 1 of this week's Critical Thinking Assignment as well. For this assignment, complete all of Parts I, II, and III, below:

Part I: The Interview and Transcript

Complete the interview with the pharmacist whom you identified for the Module 1 Critical Thinking Assignment. You are required to address specific topics by using the six questions provided below as the basis for your interview. Please provide a written transcript of the interview that summarizes the pharmacist's responses to these questions:

1. What type of technology (technologies) does your pharmacy utilize?

2. How does the technology you use enhance interprofessional communication among pharmacists, technicians, physicians, advanced medical care providers, and nurses?
3. Describe the process from the time the pharmacy receives an order to the time the medication is dispensed.
4. What are some of the processes or policies that are implemented to ensure patient safety?
5. What challenges related to the use of technology and electronic information have you experienced? What solutions have you implemented or changes have you made in your practice to address these challenges?
6. Describe how you feel about telehealth from a pharmacist's standpoint.

Part II: Integrate the Findings from the Literature

After the interview, research one of the technologies identified by the pharmacist (the type of platform used, equipment used to document, or applications used, etc.). Select two academic articles that further inform your understanding of the technology (you may use the article you located for this week's discussion question, and/or the articles provided in this week's readings, and/or your textbook for this part). Then provide an explanation of the technology, particularly its use, functions, pros, and cons.

Part III: Summarize What You Have Learned

Elaborate on what you learned about the specific type of technology utilized by the pharmacist. Summarize what you have learned by explaining both the positive aspects and negative aspects of the technology used by the pharmacist you interviewed. Also, elaborate on the technology's impact on patient care, its overall regulation, and ethical use.

Your paper should be 4-6 pages in length, not including the required title and reference pages, and conform to the guidelines in the CSU Global Writing Center. Include 4-6 scholarly references in addition to the course textbook. The CSU Global Library and Nursing Library Resources are good places to find these references.

OPTION #2: Physician/Physician Assistant Interview and Summary

If you selected Option 2 in the Module 1 Critical Thinking Assignment, be sure to complete Option 2 this week as well. For this assignment, complete all of Parts I, II, and III, below:

Part I: The Interview and Transcript

Complete the interview with the physician or physician assistant whom you identified in Module 1. You are required to address specific topics by using the six questions provided below as the basis for your interview. Please provide a written transcript of the interview that summarizes the physician's responses to these questions:

1. What type of technology (technologies) does your department use to order medications?
2. How does the technology you use enhance interprofessional communication among pharmacists, technicians, physicians, advanced medical care providers, and nurses?

3. Describe the process from the time when you make a medication order through the time that medication is to be dispensed.
4. What are some of the processes or policies that are implemented to ensure patient safety?
5. What challenges related to the use of technology and electronic information have you experienced? What solutions have you implemented or changes have you made in your practice to address these challenges?
6. Describe how you feel about telehealth from a physician's or physician assistant's standpoint.

Part II: Integrate the Findings from the Literature

Following the interview, research one of the technologies identified by the physician (the type of platform used, equipment used to document, or applications used, etc.). Select two academic articles that further inform your understanding of the technology (you may use the article you located for this week's discussion question, and/or the articles provided in this week's readings, and/or your textbook for this part). Then provide an explanation of the technology, particularly its use, functions, pros, and cons.

Part III: Summarize What You Have Learned

Elaborate on what you learned about the specific type of technology utilized by the physician. Summarize what you have learned by explaining both the positive aspects and negative aspects of the technology used by the physician you interviewed. Also, elaborate on the technology's impact on patient care, its overall regulation, and ethical use.

Your paper should be 4-6 pages in length, not including the required title and reference pages, and conform to the guidelines in the CSU Global Writing Center. Include 4-6 scholarly references in addition to the course textbook. The CSU Global Library and Nursing Library Resources are good places to find these references.

Module 3

Readings

· Chapters 7, 8, & 9 in *The Handbook of Informatics for Nurses and Healthcare Professionals*

Discussion (25 points)

Critical Thinking (100 points)

Select one option to complete.

OPTION #1: Current Technology and Ethical Issues

In an essay, apply your developing knowledge of healthcare policy to address the following questions relating to Electronic health records (EHRs) and other current technology:

- What ethical issues have you experienced or observed in your area of practice with the use of current technology such as electronic health records (EHRs)? If you have not observed an ethical issue, what issues do you predict may result for healthcare providers with the use of current technology (i.e., EHRs)?
- How can these ethical issues be dealt with and what safeguards should be put in place to protect privacy and confidentiality?
- What safeguards are being used in your current or past workplace? Are these safeguards sufficient? Why or why not?

Your paper should be 4-6 pages in length, not including the required title and reference pages, and conform to the guidelines in the CSU Global Writing Center. Include at least four scholarly references in addition to the course textbook. The CSU Global Library and Nursing Library Resources are good places to find these references.

OPTION #2: Safety-Enhancing Technology and Ethical Issues

In an essay, apply your developing knowledge of healthcare policy to address the following questions:

- Describe a safety-enhancing technology that you use in your practice. Provide a full description that helps the reader understand its use and features.
- Are there better systems that could be used or is this system the most up-to-date technology? Support your rationale with course content and scholarly resources.
- What are some ethical issues or considerations with the technology you have selected? How can they be addressed?

Your paper should be 4-6 pages in length, not including the required title and reference pages, and conform to the guidelines in the CSU Global Writing Center. Include at least four scholarly references in addition to the course textbook. The CSU Global Library and Nursing Library Resources are good places to find these references.

Module 4

Readings

·	Chapters 10 & 11 in *The Handbook of Informatics for Nurses and Healthcare Professionals*

Discussion (25 points)

Portfolio Milestone (100 points)

Complete the option that corresponds to the option of final Portfolio Project you have selected to complete for the class.

OPTION #1: Plan Proposal Milestone – Presentation

This week you will complete a Milestone for your Portfolio Project, Option 1. Your Portfolio Project for this course will be based on the following scenario. Review the scenario and the requirements for this Milestone.

Scenario:

You, as the change agent and leader in your department, have been assigned to lead a nursing IT team at a local community hospital. The hospital is in a rural area with the closest level-one trauma center at least eight hours away by ground transportation. In the past several years, there has been a noticeable increase in the incidence of young adults with acute respiratory distress disorders caused by vaping. Further, the young adults who have the co-morbidity of asthma are becoming increasingly critical, requiring mechanical ventilation, and some have even died from complications. The nursing department leaders have performed research on the issue in order to incorporate evidence-based practice guidelines in their hospital and have determined that patients readmitted within 30 days with asthma exacerbations occurred most noticeably during the winter months and the weekends. Further investigation showed that additional potential factors to the asthma exacerbations appear to be brought on by the use of e-cigarettes, vaping, hookah smoking, and a history of allergies.

The nursing managers have expressed a desire to incorporate telehealth measures and phone applications as a means of educating the young adult population on ways to control asthma outbreaks. The team has researched the literature and noted that telehealth was introduced at other facilities with great success and that it helped to improve outcomes for patients with the signs and symptoms associated with an asthma exacerbation. The nursing IT team leader (you) will be required to create and deliver a presentation to the nurse administration about the proposed plan.

Milestone Requirements:

Use your expertise as an informed future nurse leader and informaticist to create a PowerPoint presentation on using telehealth technology and/or phone applications to educate patients and improve the incidence and/or readmission rates of patients presenting with asthma exacerbations through the emergency department (ED). The presentation should be approximately four slides in length (not including the required title and reference slides) and must address the following:

1. Summarize the current evidence (usability studies) available in order to make decisions regarding health informatics applications.
2. Discuss the implications the technology would have on health promotion (both positive and negative).
3. How will the use of the technology address the key issue discussed in the scenario provided?
4. Identify the proposed telehealth technology and research real solutions or propose a solution for technology that may not yet exist (you may use your textbook, videos, course content, and the articles provided in this course).

Your presentation must:

- Be 4-6 slides in length, not including the required title and reference slides.
- Include brief bullets of information related to the content slide.
- Use the notes section to add additional information.

- Incorporate professional and engaging slide design.
- Be supported with a minimum of four references (<5 years old) from scholarly sources and formatted to conform to the guidelines in the CSU Global Writing Center. The CSU Global Library and Nursing Library Resources are good places to find these references.

  For tips on how to create a quality presentation, review the Sample Presentation provided by CSU Global. Review the rubric for specific grading criteria.

OPTION #2: Plan Proposal Milestone – Paper

This week, you will complete a Milestone for your Portfolio Project, Option 2.. Your Portfolio Project for this course will be based on the following scenario. Review the scenario and the requirements for this Milestone.

Scenario:

You, as the change agent and leader in your department, have been assigned to lead a nursing IT team at a local community hospital. The hospital is in a rural area with the closest level-one trauma center at least eight hours away by ground transportation. In the past several years, there has been a noticeable increase in the incidence of young adults with acute respiratory distress disorders caused by vaping. Further, the young adults who have the co-morbidity of asthma are becoming increasingly critical, requiring mechanical ventilation, and some have even died from complications. The nursing department leaders have performed research on the issue in order to incorporate evidence-based practice guidelines in their hospital and have determined that patients readmitted within 30 days with asthma exacerbations occurred most noticeably during the winter months and the weekends. Further investigation showed that additional potential factors to the asthma exacerbations appear to be brought on by the use of e-cigarettes, vaping, hookah smoking, and a history of allergies.

The nursing managers have expressed a desire to incorporate telehealth measures and phone applications as a means of educating the young adult population on ways to control asthma outbreaks. The team has researched the literature and noted that telehealth was introduced at other facilities with great success and helped to improve outcomes for patients with the signs and symptoms associated with an asthma exacerbation. The nursing IT team leader (you) will be required to write a paper to be presented to the nurse administration about the proposed plan.

Milestone Requirements:

Use your expertise as an informed future nurse leader and informatics to write a paper on using telehealth technology and/or phone applications to educate patients and improve the incidence and/or readmission rates of patients presenting with asthma exacerbations through the emergency department (ED). The paper should be approximately two pages long (not including the required title and reference pages) and must address the following:

1. Summarize the current evidence (usability studies) available in order to make decisions regarding health informatics applications.

2. Discuss the implications the technology would have on health promotion (both positive and negative).
3. How will the use of the technology address the key issue discussed in the scenario provided?
4. Identify the proposed telehealth technology. Research real solutions or propose a solution for technology that may not yet exist (you may use your textbook, videos, course content, and the articles provided in this course).

Your paper must be:

● 2-3 pages in length, not including the required title and reference pages.
● Supported with a minimum of four references (<5 years old) from scholarly sources. The CSU Global Library and Nursing Library Resources are good places to find these references.
● Formatted to conform to the guidelines in the CSU Global Writing Center.

Review the rubric for specific grading criteria.

Module 5

Readings

·   Chapters 12 & 13 in *The Handbook of Informatics for Nurses and Healthcare Professionals*

Discussion (25 points)

Critical Thinking (130 points)

Select one option to complete.

OPTION #1: Patient-Based Medical Application

For this assignment, create a presentation that advocates for the use of evidence-based practice to support current healthcare informatics modalities. Complete the following steps to research and prepare your presentation:

Step 1: Locate a medical application.

Locate a patient-based medical application (app) and four scholarly articles about the application.

Step 2: Create a presentation.

Create a presentation for the patient-based medical application using PowerPoint or Prezi. (See the tips for Visual Presentations from the CSU Global Writing Center.) Draw on your own clinical experience and research, including the articles you selected in Step 1, and evaluate the how the application meets (or does not meet) the following criteria:

● Inform: Provide information in a variety of formats (text, photo, video).
● Instruct: Provide instructions to the user.
● Record: Capture user entered data.
● Display: Graphically display user entered data/output user entered data.

- Guide: Provide guidance based on user-entered information (recommend a physician consultation or course of treatment).
- Remind/Alert: Provide reminders to the user.
- Communicate: Provide communication with the user and/or provide links to social networks.

Your presentation must:

- Be 6-8 slides in length, not including the required title and reference slides. One slide for each criterion is recommended.
- Include brief bullets of information related to the content slide.
- Use the notes section to add additional detailed information.
- Incorporate professional and engaging slide design.
- Be supported with a minimum of four references (<5 years old) from scholarly sources and formatted to conform to the guidelines in the CSU Global Writing Center. The CSU Global Library and Nursing Library Resources are good places to find these references.

Review the rubric for specific grading criteria.

OPTION #2: Provider-Based Medical Application

For this assignment, create a presentation that advocates for the use of evidence-based practice to support current healthcare informatics modalities. Complete the following steps to research and prepare your presentation:

Step 1: Locate a medical application.

Locate a provider-based medical application (app) and four scholarly articles about the application.

Step 2: Create a presentation.

Create a presentation for the provider-based medical application using PowerPoint or Prezi. (See the tips for Visual Presentations from the CSU Global Writing Center.) Draw on your own clinical experience and research, including the articles you selected in Step 1, and evaluate the how the application meets (or does not meet) the following criteria:

- Inform: Provide information in a variety of formats (text, photo, video).
- Instruct: Provide instructions to the user.
- Record: Capture user entered data.
- Display: Graphically display user entered data/output user entered data.
- Guide: Provide guidance based on user-entered information (recommend a physician consultation or course of treatment).
- Remind/Alert: Provide reminders to the user.
- Communicate: Provide communication with the user and/or provide links to social networks.

Your presentation must:

- Be 6-8 slides in length, not including the required title and reference slides. One slide for each criterion is recommended.
- Include brief bullets of information related to the content slide.

- Use the notes section to add additional detailed information.
- Incorporate professional and engaging slide design.
- Be supported with a minimum of four references (<5 years old) from scholarly sources and formatted to conform to the guidelines in the CSU Global Writing Center. The CSU Global Library and Nursing Library Resources are good places to find these references.

Review the rubric for specific grading criteria.

Module 6

Readings

· Chapters 14 & 15 in *The Handbook of Informatics for Nurses and Healthcare Professionals*

Discussion (25 points)

Critical Thinking (100 points)

Select one option to complete.

OPTION #1: Introducing Standard Terminologies

For the Critical Thinking Assignment this week, write an essay that addresses the following questions:

- As a nurse leader, how would you explain the need to implement standardized terminologies in your department (past or present)?
- How can you (as the team leader) provide optimal training programs to introduce standard (informatics) terminologies in your organization?
- How could you seek to improve recognition of standard terminologies across disciplines? And how would this training help support accurate multidisciplinary digital communication?

Your paper should be 4-6 pages in length, not including title and reference pages, and conform to the guidelines in the CSU Global Writing Center. Include at least four scholarly references in addition to the course textbook. The CSU Global Library and Nursing Library Resources are good places to find these references.

OPTION #2: Leveraging Technology to Provide Education

For the Critical Thinking Assignment this week, write an essay that addresses the following questions:

- How can you (as the team leader) use informatics to provide education for the staff, patients, families, and populations across the lifespan?
- In your previous courses, you used Shadow Health as a simulation exercise. Was that simulation a useful digital learning experience? Why or why not?

Your paper should be 4-6 pages in length, not including the required title and reference pages, and conform to the guidelines in the CSU Global Writing Center. Include at least four scholarly references in addition to the course textbook. The CSU Global Library and Nursing Library Resources are good places to find these references.

· Chapters 16 & 17 in *The Handbook of Informatics for Nurses and Healthcare Professionals*

Discussion (25 points)

Module 8

Readings

· Chapters 18, 19, & 20 in *The Handbook of Informatics for Nurses and Healthcare Professionals*

Discussion (25 points)

Portfolio Project (250 points)

Select one option to complete.

OPTION #1: Plan Proposal – Presentation

In this course you will complete a Portfolio Project based on the following scenario. Review this scenario and the requirements for this project. Use your expertise as an informed future nurse leader and informatics to create a plan proposal on using telehealth technology and/or phone applications to educate patients and improve the incidence and/or readmission rates of patients presenting with asthma exacerbations through the emergency department (ED).

Scenario:

You, as the change agent and leader in your department, have been assigned to lead a nursing IT team at a local community hospital. The hospital is in a rural area with the closest level-one trauma center at least eight hours away by ground transportation. In the past several years, there has been a noticeable increase in the incidence of young adults with acute respiratory distress disorders caused by vaping. Further, the young adults who have the co-morbidity of asthma are becoming increasingly critical, requiring mechanical ventilation, and some have even died from complications. The nursing department leaders have performed research on the issue in order to incorporate evidence-based practice guidelines in their hospital and have determined that patients readmitted within 30 days with asthma exacerbations occurred most noticeably during the winter months and the weekends. Further investigation showed that additional potential factors to the asthma exacerbations appear to be brought on by the use of e-cigarettes, vaping, hookah smoking, and a history of allergies.

The nursing managers have expressed a desire to incorporate telehealth measures and phone applications as a means of educating the young adult population on ways to control asthma outbreaks. The team has researched the literature and noted that telehealth was introduced at other facilities with great success and helped to improve outcomes for patients with the signs and symptoms associated

with an asthma exacerbation. The nursing IT team leader (you) will be required to create and present a presentation to the nurse administration about the proposed plan.

Project Requirements:

Module 4: Portfolio Project Milestone:

You will complete the first portion of this project in the Module 4 Portfolio Project Milestone, which includes addressing these first four items in your presentation:

1. Summarize the current evidence (usability studies) available in order to make decisions regarding health informatics applications.
2. Discuss the implications the technology would have on health promotion (both positive and negative).
3. How will the use of the technology address the key issue discussed in the scenario provided?
4. Identify the proposed telehealth technology. Research real solutions or propose a solution for technology that may not yet exist (you may use your book, videos, course content, and the articles provided in this course).

Module 8, Portfolio Project:

To complete this project, you will build on work you did in the Module 4 Portfolio Milestone and, this week, in Module 8, finalize your presentation with voiceover. Your final presentation must also be expanded to address the following six items:

1. As the nurse leader and change agent, what do you think are the critical steps that must be taken to be successful with this team?
2. What concerns might patients express about using the described technology? What policies might the IT team propose to address these concerns?
3. Discuss the usefulness of the proposed telehealth technology to increase patient education and to monitor for patient readmissions.
4. How would training for the proposed solution be conducted for patients and nursing staff?
5. What are potential issues with developing and sustaining a telehealth program?
6. Provide a conclusion/summary

Your final presentation must:
- Include 10-12 slides, not including the required title and reference slides.
  - Include brief bullets of information related to the content slide.
  - Include APA citations as support for the information presented.
- Incorporate any feedback provided by your instructor on your Module 4 Portfolio Milestone submission.
- Incorporate professional and engaging slide design.

- Be supported with a minimum of six references (<5 years old) from scholarly sources and formatted to conform to the guidelines in the CSU Global Writing Center. The CSU Global Library and Nursing Library Resources are good places to find these references.
- Include voiceover for all slides with exception of the reference slide(s). The voiceover portion must provide greater detail for each slide's content.
  - You may leave the extra content from the Portfolio Project Milestone in Module 4 in the notes section, but this content must now be included in the voiceover.
  - Record the presentation using Screencast-O-Matic (free online tool) or another screen recorder of your choosing. Use a tool that allows you to record your screen (your presentation!) while you verbally present. Please include yourself in the recording using a webcam overlay. Limit your presentation to 15 minutes, so practice and plan ahead.
- After you have finished recording, upload your recording to YouTube.

Review the grading rubric for specific grading criteria. Submit the link to your video along with your presentation file.

OPTION #2: Plan Proposal – Paper

In this course you will complete a Portfolio Project based on the following scenario. Review this scenario and the requirements for this project. Use your expertise as an informed future nurse leader and informatics to create a plan proposal on using telehealth technology and/or phone applications to educate patients and improve the incidence and/or readmission rates of patients presenting with asthma exacerbations through the emergency department (ED).

Scenario:

You, as the change agent and leader in your department, have been assigned to lead a nursing IT team at a local community hospital. The hospital is in a rural area with the closest level-one trauma center at least eight hours away by ground transportation. In the past several years, there has been a noticeable increase in the incidence of young adults with acute respiratory distress disorders caused by vaping. Further, the young adults who have the co-morbidity of asthma are becoming increasingly critical, requiring mechanical ventilation, and some have even died from complications. The nursing department leaders have performed research on the issue in order to incorporate evidence-based practice guidelines in their hospital and have determined that patients readmitted within 30 days with asthma exacerbations occurred most noticeably during the winter months and the weekends. Further investigation showed that additional potential factors to the asthma exacerbations appear to be brought on by the use of e-cigarettes, vaping, hookah smoking, and a history of allergies.

The nursing managers have expressed a desire to incorporate telehealth measures and phone applications as a means of educating the young adult population on ways to control asthma outbreaks. The team has researched the literature and noted that telehealth was introduced at other facilities with great success and helped to improve outcomes for patients with the signs and symptoms associated with an asthma exacerbation. The nursing IT team leader (you) will be required to write a paper to be presented to the nurse administration about the proposed plan.

Project Requirements:

Module 4: Portfolio Milestone:

You will complete the first portion of this project in the Module 4 Portfolio Project Milestone, which includes addressing these first four items in your presentation:

1. Summarize the current evidence (usability studies) available in order to make decisions regarding health informatics applications.
2. Discuss the implications the technology would have on health promotion (both positive and negative).
3. How will the use of the technology address the key issue discussed in the scenario provided?
4. Identify the proposed telehealth technology. Research real solutions or propose a solution for technology that may not yet exist (you may use your book, videos, course content, and the articles provided in this course).

Module 8, Portfolio Project:

To complete this project, you will build on your work in the Module 4 Portfolio Project Milestone and, this week, in Module 8, finalize your paper. Your final paper must also be expanded to address the following six items:

1. As the nurse leader and change agent, what do you think are the critical steps that must be taken to be successful with this team?
2. What concerns might patients express about using the described technology? What policies might the IT team propose to address these concerns?
3. Discuss the usefulness of the proposed telehealth technology to increase patient education and to monitor for patient readmissions.
4. How would training for the proposed solution be conducted for patients and nursing staff?
5. What are potential issues with developing and sustaining a telehealth program?
6. Provide a conclusion/summary

Your final presentation must:

- Be 6-8 pages in length, not including the required title and reference pages.
- Be supported with a minimum of six references (<5 years old) from scholarly sources and formatted to conform to the guidelines in the CSU Global Writing Center. The CSU Global Library and Nursing Library Resources are good places to find these references.
- Incorporate feedback provided by your instructor for your Module 4 Portfolio Project Milestone submission.

Review the grading rubric for specific grading criteria.

COURSE POLICIES

Grading Scale	
A	95.0 – 100
A-	90.0 – 94.9
B+	86.7 – 89.9
B	83.3 – 86.6
B-	80.0 – 83.2
C+	75.0 – 79.9
C	70.0 – 74.9
D	60.0 – 69.9
F	59.9 or below

Graduate Course Grading	
20%	Discussion Participation
45%	Critical Thinking Assignments
35%	Final Portfolio Project

IN-CLASSROOM POLICIES

For information on late work and incomplete grade policies, please refer to our **In-Classroom Student Policies and Guidelines** or the Academic Catalog for comprehensive documentation of CSU Global institutional policies.

Academic Integrity
Students must assume responsibility for maintaining honesty in all work submitted for credit and in any other work designated by the instructor of the course. Academic dishonesty includes cheating, fabrication, facilitating academic dishonesty, plagiarism, reusing /re-purposing your own work (see CSU Global Library page for Citing & APA Resources and Avoiding Common Plagiarism Mistakes for percentage of repurposed work that can be used in an assignment), unauthorized possession of academic materials, and unauthorized collaboration. The CSU Global Library provides information on how students can avoid plagiarism by understanding what it is and how to use the Library and Internet resources.

Citing Sources with APA Style
All students are expected to follow APA format for all assignments. For details, please review the APA guidelines within the CSU Global Writing Center. A link to this resource should be provided within most assignment descriptions in your course.

Disability Services Statement
CSU Global is committed to providing reasonable accommodations for all persons with disabilities. Any student with a documented disability requesting academic accommodations should contact the Disability Resource Coordinator at 720-279-0650 and/or email ada@CSUGlobal.edu for additional information to coordinate reasonable accommodations for students with documented disabilities.

Netiquette
Respect the diversity of opinions among the instructor and classmates and engage with them in a courteous, respectful, and professional manner. All posts and classroom communication must be conducted in accordance with the student code of conduct. Think before you push the Send button. Did you say just what you meant? How will the person on the other end read the words?

Maintain an environment free of harassment, stalking, threats, abuse, insults or humiliation toward the instructor and classmates. This includes, but is not limited to, demeaning written or oral comments of an ethnic, religious, age, disability, sexist (or sexual orientation), or racist nature; and the unwanted sexual advances or intimidations by email, or on discussion boards and other postings within or connected to the online classroom. If you have concerns about something that has been said, please let your instructor know.