

One Profession, One Learning Curve:

AI in Nursing Education and at the Bedside

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Our Journey











EARLY WARNING ALERTS

AI SYSTEMS

⚠️ **ALERT**
HEART RATE 130

⚠️ **ALERT**
RESP RATE 32

⚠️ **B.P.**
RR 85/56

Bottom line...

AI informs. The nurse decides. Clinical judgment was never meant to be outsourced.

Dr. Susan Deane

Leveraging AI at the Bedside

Clinical Decision Support



Real-Time Alerts
and Early Warning
Systems

Medication
Dosing and Safety
Checks

Guidance on
Diagnostic and
Treatment
Decisions

Support for
Complex or Rare
Cases

Prioritization of
Care Tasks

Decision Support
in Monitoring and
Alarm
Management

Predictive Analytics for Patient Deterioration

Continuous Monitoring and Early Warning Systems

Risk Stratification and Predictive Modeling

Trend Analysis and Pattern Recognition

Integration with Clinical Decision Support Tools

Reducing False Alarms and Alarm Fatigue



Patient Engagement and Education

- Personalized Health Education
- Chatbots
- Tailored discharge instructions
- Interactive, multimedia educational resources
- Support ongoing education
- Empower patients
- Treatment Adherence



Clinical Documentation and Ambient Scribing

- Reduces documentation burden
- Improves accuracy
- Enhances real-time recording
- Supports compliance and billing



Staffing Optimization

- Predicts patient census and acuity
- Forecasts staffing needs
- Enhances nurse to patient ratios
- Reduces overtime and burnout
- Supports dynamic scheduling
- Improves patient outcomes



AI and Nurse Residency Programs



PERSONALIZED
LEARNING PATHS



SIMULATION AND
VIRTUAL TRAINING



MENTORSHIP
MATCHING



PERFORMANCE
MONITORING AND
FEEDBACK



PREDICTIVE
RETENTION AND
SUCCESS



ENHANCED
ENGAGEMENT



Implications for Healthcare Education

Benefits of AI in Healthcare Education

Personalized
Learning

Available 24/7

Enhanced
Teaching
Practices

Improved
Student
Engagement

Efficiency and
Productivity

Continuous
Learning and
Development

Exposure to
skills employers
are looking for

Enhanced
Clinical Training

Improved
Student
Outcomes



Limitless Potential... So Where Do I Start?

Set clear expectations for students – what is and is NOT acceptable use of AI

- Policies—KEY!
- Include in course syllabi and program documents
- Discuss as a faculty & be consistent

SAMPLE

Principle 1: Shift from a rules-based “honor code” approach to a values-based “academic integrity” approach.

- **Guideline 1:** Be proactive in clearly defining how and when students can use AI in your class, including why it may be appropriate in some instances and why it is not appropriate in others. Include this guidance in your syllabus and discuss it with your class at the start of the semester.
- **Guideline 2:** Align your AI use policy with your pedagogical values, goals, and philosophy. For example, a restrictive, no-use policy might not be aligned to [a value](#) of student agency.

The following is a sample statement that exemplifies a values-based academic integrity approach to AI from a Texas A&M University Center for Teaching Excellence document called [Generative AI Syllabus Statement Considerations](#).

Using an AI-content generator (such as ChatGPT) to complete coursework without proper attribution or authorization is a form of academic dishonesty. If you are unsure about whether something may be plagiarism or academic dishonesty, please contact your instructor to discuss the issue. Faculty, students, and administrative staff all share the responsibility of ensuring the honesty and fairness of the intellectual environment at Washington University in St. Louis.

Note: AI violations are typically cited as “unauthorized assistance” in universities’ academic integrity codes. In App State’s [Academic Integrity Code](#), this is located in Article V, Prohibited Academic Conduct, 5.01 Cheating: Using, attempting to use, or giving unauthorized assistance or materials in an effort to gain academic advantage.

Principle 2: Promote transparency and accountability in the use, reporting, and citing of AI. This includes stating how faculty might use AI-detection tools in assessing students’ work.

- **Guideline 1:** Establish open lines of communication about the use of AI for your class and foster a collegial environment to encourage students to talk to instructors when they feel inclined to use AI on assignments.
- **Guideline 2:** Engage students in a collegial conversation about how they produced the work and what role AI might have played.
- **Guideline 3:** Disclose any intended use of AI in the assessment of student work and ask students to opt in or out to [having](#) their work added to a public database in this way.

Note: Most major style guides have developed their own recommendations regarding how writers should attribute their work to AI. This is likely to be an evolving conversation, but the following sources provide guidance.

- [MLA](#) (Modern Language Association)
- [Chicago Manual of Style](#)
- [APA](#) (American Psychological Association)

Sample Syllabus Language

It is important to remember that Sherpath AI is not a replacement for your own critical thinking and original ideas. It is an educational tool you are encouraged to use in different capacities throughout the course to aid in your learning. Examples include asking for explanations on specific topics, asking for practice questions or videos, and asking for content outlines from the textbook to aide in your studies. Students may not use Sherpath AI, or any other AI, in order to complete graded written assignments in this course. Each student is expected to complete written assignments on their own, without assistance from others, which includes AI, unless otherwise directed. All sources must be cited appropriately. Violations of this policy will be considered academic misconduct.

<https://teaching-resources.delta.ncsu.edu/develop-an-ai-syllabus-statement/>

Give Students Some Direction



Use AI to clarify content as you study



Ask a follow-up question after a quiz, a lecture, or a clinical situation



Ask for practice questions on a topic



Ask for a content outline to guide studying



Ask for help with care plans – for example, ideas for interventions based on a patient's condition

Put AI to Work for YOU!



Help

Help answering difficult student questions



Refresh

Refresh your own content knowledge



Engage

Get engaging class activities



In-Class

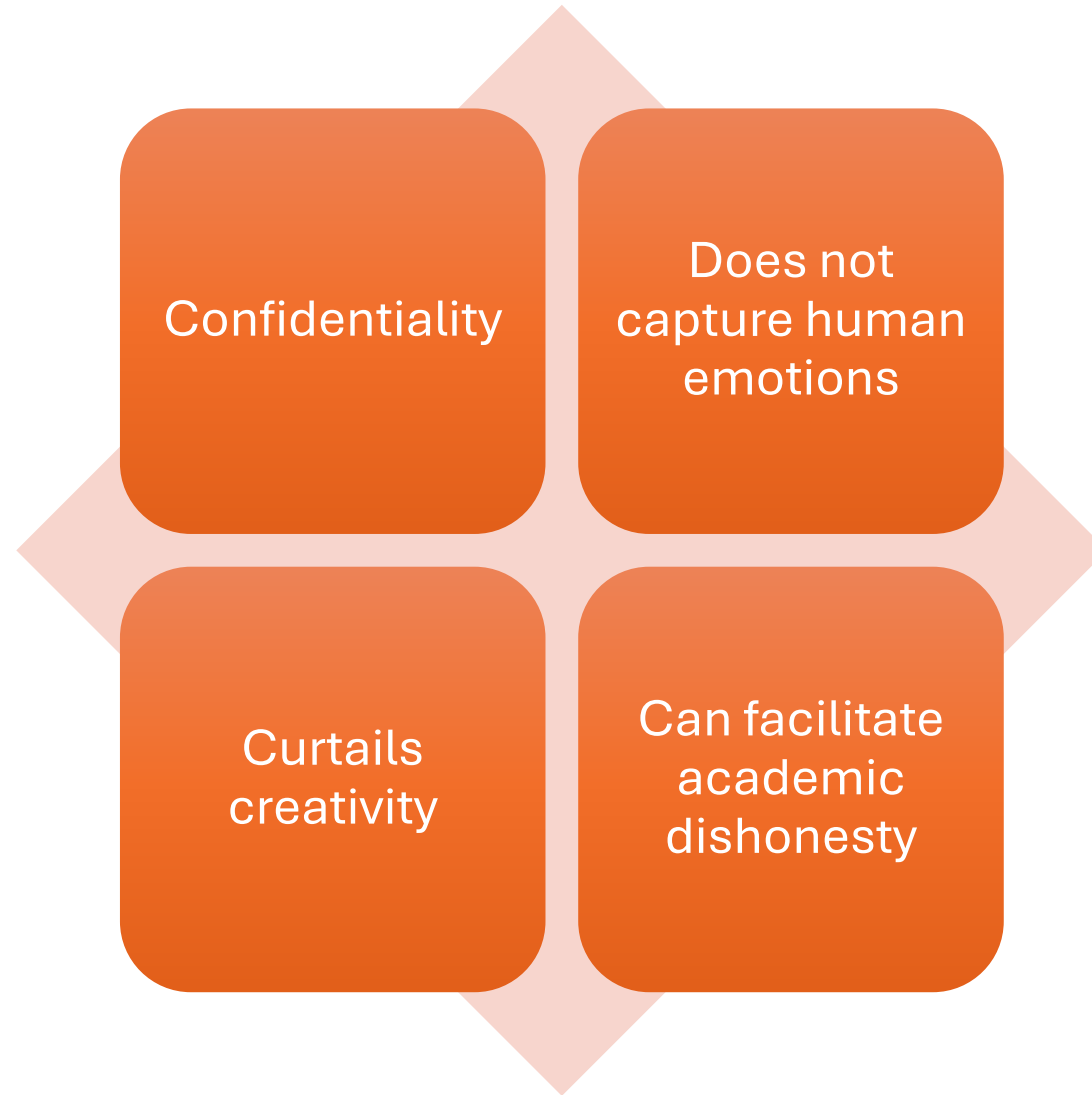
Use chatbots in class for activities



Teach & Assess

Get ideas for how to teach students and/or assess student competency in a given area

Considerations when using AI:



Introduction to **Retrieval Augmented Generation** (RAG):

What is RAG?

RAG is a method used in AI that combines retrieving information (like looking up facts or data) and generating new content (like writing a report or answering questions) seamlessly.



Thank you!

