

NURSING EDUCATION RESEARCH CONFERENCE 2018

SIGMA THETA TAU INTERNATIONAL


WASHINGTON DC

Disclosure

- Author:
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- There is no conflict of interest to declare
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Innovative Teaching Strategies for Genomic Content Integration into Nursing Curriculum

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- Creating an online community to facilitate professional education and discussion of genomics integration
 - Essential to keep today's learners proactively engaged
 - Organizing online assignments and group discussions to enhance learner outcomes
 - increasing knowledge base and comfort level with integrating genomics into practice
 - lack of knowledge of genomics and a lack of confidence with this complex content are significant obstacles to integrating

Online Community Essential

- Creating online groups where 5-6 students engage in Weekly Content Discussions
 - Develop Learning Modules to help organize course
 - Within each module, have individual hyperlinks to additional resources
- Set up Class Discussion Board
 - This is where, if have a very large group, can have individual groups upload a summary of their discussion
 - Organize week by week to help keep course structured

- Easier to upload entire course upfront
 - Need to be very organized & structured
 - Do not allow students to upload answers ahead of course schedule
 - Makes for competition amongst students and hinders learning
- Have CLEAR due dates for Weekly Content Discussions
 - Clear dates when Week begins and ends
 - Answers to Weekly Content due between Sunday 12midnight through Monday 12noon
 - Or by 12noon day before brick/mortar class
 - Discussion concludes Thursday 11:59pm
 - Can only begin Discussion after submitting Answers
 - Minimum 3 postings/responses
 - Summary by Group Leader in Class DB due Friday 12midnight - 12noon

- Have a list of Weekly Content questions that will keep online conversation flowing [pertaining to topic]
- Set up Separate Threads
 - Answers – this is where each student individually submits answers for weekly content
 - Discussion – once answers uploaded, this is where overall dialogue takes places
 - Its ok to cut/paste same question if have multiple groups
 - Helps keep students discussing the same content/topics
 - Every group will go off on its own specific discussion but this helps to decrease any group feeling they didn't get the same as any other group
 - DB Point Deduction Criteria
 - Have in addition to Rubric of what expectation is for engagement

Resources Resources Resources

- Available articles
 - <http://onlinelibrary.wiley.com/advanced/search/results>
- Mash-ups/Hyperlinks/YouTube Videos
 - Genetics 101 (Part 1 of 5): What are genes?
https://www.youtube.com/watch?v=ubq4eu_TDFc
- Website links
 - Genetics Home Reference - <http://ghr.nlm.nih.gov/>
 - OMIM {Online Mendelian Inheritance in Man}
<http://www.ncbi.nlm.nih.gov/omim>
 - <https://www.genome.gov/27552312/>
- Within each weekly Learning Module, have additional resources based on that topic

Assignments/Discussion Board

- Cincinnati Children's Genetic Education Program: Instructional Resources
<http://www.cincinnatichildrens.org/education/clinical/nursing/genetics/instruction/default/>
 - Genetics is Relevant Now: Nurses' Views and Patient Stories
 - **90% or better** to receive assignment credit
 - Have students upload to BB/Platform. Can help the 'older' student get use to technology
- Weekly activities on discussion board and interactive learning activities
 - Group discussion enhances that focused content

Assignments: Undergraduate Students

- Methods of Course Evaluation:
 - Certificate Assignment – 5%
 - Genetic Condition Group Assignment – 20%
 - 3 Generation Paper [Individual paper] – 35%
 - Weekly Group Assignments – 25%
 - *Each weekly assignment worth 7.15 points*
 - 3 Quizzes – 5% each

● Group Assignments:

● Weekly Group Assignments

- In order to 'apply' the content, group work enables critically thinking
 - break into groups to do some the work in class and/or get together to complete the work
 - *The Group MUST upload answers onto BB under DISCUSSION BOARD, with Group # in Subject Heading*

● Genetic Condition Group Assignment

- Each group chooses a topic from specified list
 - Write a 'collective' paper based on specific questions
 - Upload onto BB under Class Discussion Board to share
 - Hard copy submitted for grading
 - No duplications of condition permitted
- Rubrics for ALL assignments

- Construct a three-generation family history
 - Must have clear legend defined
 - Write individual paper based on criteria
 - Pedigree construction 30%
 - Content 30%
 - Included Healthy People 2020 Genomics section 15%
 - Learning Resources 10%
 - APA format/4-5 page limit/grammar 10%
 - Citations 5%
 - Must submit Rubric or receive point deduction
- 3 Quizzes – all online, 25 questions, 5% each
 - Based on the Learning Module breakdown. 24 hour available access
 - Quiz 1 – Modules 1-3
 - Quiz 2 – Modules 4-6
 - Quiz 3 – Modules 7-9

Assignments: Graduate Students

- Methods of Course Evaluation:
 - Certificate – 5%
 - Scholarly paper (ELSI) – 25%
 - Activity on discussion board and interactive learning activities – 50%
 - Individual student-focused assignments on weekly content, with homework assignments, case studies
 - Case Study Presentation/TellingStories – 20%
- Rubrics for ALL assignments

Case Study Presentations/Voice Thread Assignment

- TellingStories <http://www.tellingstories.nhs.uk/>
 - Choose a case to explore; No duplicates allowed
 - Overview of condition including symptomatology and differential diagnoses.
 - Epidemiology, environmental and genetic contributions to condition.
 - Treatment modalities, priorities of interventions and rationale, and appropriate referrals
 - Genetic testing and counseling appropriate to client and family
 - Research implications
 - ELSI pertaining to your specific case
 - Relating to the specific TellingStories you have chosen, what are your answers to the Points of Reflections and Activities that are written for each story.
- Student expected to upload their presentation onto BB
 - Allows students to learn technology
 - Provides opportunity to practice prior to uploading

Scholarly Paper: Ethical, legal, social implications related to genetic/genomic information

- Description of ethical problem
 - Involving at least two contrasting positions
- Define major stakeholders
 - Who have an interest, or claim in issue
 - Stakeholders include individuals, families, communities, institutions and societies
- Detail position of each stakeholder or viewpoint
 - Expressed as an argument, or a series of reasons that support position
- State/explain major ethical conflict between/among stakeholder
- Describe clinical implications of ethical problem
 - As it relates to genetic condition
- State/explain resolution to ethical conflict
 - Provide reasons, supported by evidence, to justify why take that position
 - Describe patient education resources that can assist client

Educator Organization


- Must be very organized
- Detailed syllabus and Education Platform [such as Blackboard] should be structured with numerous resources
- Developed Excel Spreadsheet
 - Can check off students name when completes assignments
- Have rubrics for all assignments
 - Require student to submit with assignments
 - If do not provide, point deduction [DB Point Deduction Criteria]

Clinical Relevance

- Promoting transformation of genomic knowledge and practice to advance global health practices and nursing competency is an ever-evolving process
 - Begins with realization that *all educational levels* must be involved and informed to integrate this knowledge and confidence into practice to improve patient health outcomes
- Despite growing use of genomic applications in clinical practice, health professional knowledge about genomic information and confidence in using it have not kept pace
 - Nurses do not have the knowledge or tools needed to apply genomic information in professional practices

Conclusions

- Developing online courses is what current student expects
 - Do not want to come to 'campus' weekly
- Developing communication discussion boards broadens their conceptual thinking on the content
 - Allows for the 'silent' student to be heard
- Exploring basic foundational knowledge and building to complex patient scenarios facilitate students with applying this knowledge with confidence
- Educator **MUST** be very organized and detailed
 - Online teaching not easier!
 - Yet, easier once you create the class ☐

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- Thank you for your time
 - If anyone has any questions, please do not hesitate to contact me