**NURS 6324: Clinical Information Systems**

Spring 2015

**Instructor(s):** Valerie Hart, PhD, MSN, RN

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**Faculty Profile:**

**Office Hours:** Online or mobile

**Section Information:** N6324 (3 credit Hours, 33 clock hours)

**Time and Place of Class Meetings:** Blackboard Collaborate Synchronous Meetings, see Course Calendar below.

**Description of Course Content:** This course develops skills and knowledge for an integral role as a clinical expert and leader in planning, developing, implementing, and evaluating clinical information systems (CIS) and information technology in health care settings. Informatics applications that affect health care and nursing will be emphasized. Strategic planning, determining and communicating information needs, administrative uses of information systems, clinical information systems and electronic health record are explored. This course culminates in the development, analysis, and reporting of a simulated CIS research project.

**Student Learning Outcomes:**

1. Recognize and describe the structure of clinical information systems.
2. Recognize and describe the ethical issues involving CIS.
3. Develop research questions pertinent to nursing that can be answered via CIS.
4. Conceptualize data acquisition, storage, and use.
5. Apply basic data management techniques to integrate CIS.

8. Analyze a database to address research questions pertaining to CIS.

**Required Textbooks and Other Course Materials:**

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| American Psychological Association (2010). Publication manual (6 ed.). Washington, DC: Author. |
| McGonigle, D. & Mastrian, K. G. (2015). Nursing Informatics and the  Foundation of Knowledge, 3nd Ed. Jones & Bartlett Learning.  ISBN: 978-1-284-04351-8. |
| SPSS / PASW computer program access. |

**Requirements:** This course requires the completion of all assigned projects, in addition to class participation via Blackboard. Blackboard Collaborate, synchronous online class attendance is mandatory, with the final Blackboard Collaborate synchronous class optional. **This class requires proficiency in Microsoft Word and Microsoft Excel**. Students who need to achieve proficiency in these software applications can register for MS Office training at <http://www.uta.edu/oit/cs/training/classes/office.php>

There are also online tutorials on the Microsoft website:

<http://office.microsoft.com/training/>

This is a good tutorial on YouTube:

<http://www.youtube.com/watch?v=8L1OVkw2ZQ8>

**Teaching Methods/Strategies:** This course involves online instruction via Blackboard using asynchronous and synchronous methods. An ongoing Discussion Board is available for any questions or comments to faculty and peers throughout the semester. Online communication for threaded discussions will use the Blackboard Discussion Board. Blackboard Collaborate synchronous online discussions will consist of applied tutorials of data management techniques commonly used in CIS. See Guidelines and Rubric for Blackboard Discussion Board under Class Materials and grading rubrics for CIS Database Project under each assignment.

**Descriptions of major assignments and examinations with due dates:** See Course Calendar below for major Assignments and descriptions of assignments with due dates. Calendar also posted in the BBoard Course Learning System.

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| **CIS 6324 Clinical Information Systems**  **Course Calendar Spring 2015** | | | |
|  | **Course Topics** | **Student Assignments** | **Dates / Assignment Due** |
| **Module 1**  **Weeks**  **1-3**  **(Jan 20 – Feb 7)** | **Introduction to Nursing**  **Informatics:** Building Blocks and the Knowledge Work of Nursing  **Collaborate Session:**  Meet class participants, review course requirements. | Complete student information form.  Complete orientation to Blackboard Collaborate – See Resources.  Complete readings; see Blackboard Course Schedule.  Have SPSS installed on personal computer for Sept 11 class.  Complete readings. | **Jan 20-22** Submit information form to dropbox.  **Jan 22 (Thurs)**  **BBoard Collaborate Synchronous class 6P- 8P. Mandatory attendance.** |
|  |  | **Learning Activity (LA) #1**, Using the informatics model, due Feb 1 | **Feb 1 (Sunday)**  **LA #1 due to dropbox by midnight.** |
|  | **Collaborate Session:**  Database Project, Assignment #1 Demonstration | **Database Project:** Have SPSS installed on personal computer for Feb 5 class. Learn to import data set into SPSS, name & label data. See Database Project, Assignment #1, due Feb 22. | **Feb 5 (Thurs)**  **BBoard Collaborate Synchronous class 6P- 8P. Mandatory attendance.** |
|  |  | **Learning Activity #2,** Setting your course objectives, due Feb 8 | **Feb 8 (Sunday)**  **LA #2 due to dropbox by midnight.** |
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| **Module 2**  **Weeks**  **4-5**  **(Feb 8- 21)** | Critical elements of Health Information Systems (HIS):  Systems life cycle; HIT adoption, use & evaluation | Complete Readings. See Blackboard Course Schedule.  **WIKI** **– HIT Adoption**:  Groups develop assigned Wiki section, Feb 8 – 18.  Enter individual comments on alternate sections of Wiki,  Feb 18-21. | **Wiki development by groups, Feb 8-18.**  **Individual comments on Wiki, Feb 18 – 21.** |
|  |  |  | **Feb 22** (Sun)  **Database Project, Assignment #1 due to dropbox by midnight** |
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| **Module 3**  **Weeks 6-7**  **(Feb 22 – Mar 7)** | Critical elements of HIS:  Workflow & meaningful use in IS design | Complete readings. See Blackboard Course Schedule.  **Learning Activity #3: Workflow mapping,**  due Mar 8 | **Mar 8 (Sunday) Learning Activity #3 due by midnight to dropbox** |
|  | **Collaborate Session:** Database Project, Assignment #2 demonstration. | **Database project**: Learn beginning data management skills; describe the data. See Database project, Assignment #2, due Mar 29 | **Mar 5 (Thurs)**  **BB Collaborate: Synchronous Class. 6P- 8P. Mandatory attendance.** |
| **SPRING BREAK MARCH 8 - 15** | | | |
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| **Module 4**  **Weeks 8-9 (Mar 15-28)** | HIT to support, monitor & evaluate care outcomes, care systems, quality improvement | Complete readings. See Blackboard Course Schedule.  **WIKI – HIT & Outcomes of Care**:  Groups develop assigned Wiki section, Mar 15-25.  Individuals comment on alternate Wiki sections, Mar 25-28. | **WIKI development by groups,**  **Mar 15- 25.**  **Individual comments on Wiki, Mar 25 -28** |
|  |  |  | **Mar 29 (Sun)**  **Database Project, Assignment #2 due to dropbox by midnight.** |
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| **Module 5**  **Weeks 10-11 (Mar 29 –**  **Apr 11)** | IT to support consumer education; community health, telehealth nursing; nursing education | Complete readings. See Blackboard Course Schedule.  **WIKI - Patient Education Toolkit:** Group project, develop Wiki Mar 29 – Apr 11. | **WIKI Pt Educ Toolkit**  **development by groups, Mar 29 – Apr 11** |
|  | **Collaborate Session:** Database Essentials #3.  Demonstration for Assignment #3. | **Database project:**  Develop descriptive research questions & analysis process using assigned data set. See Database Project, Assignment #3, due May 10. | **Apr 9 (Thurs)**  **BBoard Collaborate Synchronous Class. 6P-8P. Mandatory attendance.** |
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| **Module 6**  **Weeks 12-13**  **(Apr 12-25)** | Evaluating health care: data collection, data mining, data analysis | Complete readings. See Blackboard Course Schedule. |  |
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| **Module 7**  **Weeks 14 -15 (Apr 26 – May 9)** | Ethical and legal considerations of Informatics | Complete readings. See Blackboard Course Schedule.  **Discussion Board #1, Ethics & legal issues**  Apr 26 – May 3 | **Apr 28, (Tues)**  **Discussion Board #1 first posting due by midnight. Discussion closes May 3.** |
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| **Module 8**  **Week 16 (May 10 - 15)** | **Collaborate Session**: No new content. Questions on final assignment. | **Finalize database project with assignment 3. Optional attendance for May 7 Collaborate session; questions on finalizing project.** | **May 7 (Thursday)- BBoard Collaborate: Synchronous Online Class. Optional.**  **6PM – 8PM**  **May 10 (Sunday) – Database Project, Assignment #3 due at midnight** |

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| **METHODS OF EVALUATION:** | | |
| Category | Description | Weight |
| Learning Activities & Online Discussion | Learning activities are individual student submissions: development of a case study using the information model, personal course goals, & an IT workflow mapping. The online discussion deals with ethics and legal issues of healthcare informatics based on current literature. See the associated modules with the activities and due dates in the course calendar posted in this syllabus and in your Blackboard course directory. The modules contain detailed directions for each activity & the online discussion. | 25% |
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| Database Project | The database project builds understanding and beginning skills in using administrative data to describe a patient sample and measure care outcomes; this assignment is also individual work and submissions. Blackboard collaborate sessions are used to demonstrate the use of SPSS to build a database, identify data types/values and perform basic statistical analysis. See the associated modules with the database assignments and due dates in the course calendar posted in this syllabus and in your Blackboard course directory. The modules contain detailed directions for each assignment and resources. | 30% |
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| Wiki Group Content Outlines | The Wiki tool is used by groups to build the information content outlines using the text, current literature & web-based content for two modules: Health information technology (HIT) adoption & evaluation and HIT supporting patient safety and care outcomes. Practice application comments will be submitted by each student. See the associated modules with the Wiki projects and due dates in the course calendar posted in this syllabus and in your Blackboard course directory. The modules contain detailed directions for each Wiki. There are 2 Wiki content outlines. | 15% |
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| Wiki Group Patient Education Toolkit | Groups will build a patient education toolkit using the Wiki tool. See the associated modules with the Wiki project description and due dates in the course calendar posted in this syllabus and in your Blackboard course directory. The modules contain detailed directions for the toolkit. | 25% |
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| Attendance & participation in synchronous collaborate sessions | Attend and participate in 4 synchronous collaborate sessions. The final session is optional. Attendance also includes responding to instructor queries by announcement and email query. | 5% |
| **Grading Policy** | Evaluation category points given for the activities are summed and then weighted to calculate final grade percentage earned.  **Students with a final grade of 91 to 100 will receive an ‘A’**  **Students with a final grade of 81 to 90 will receive a ‘B’**  **Students with a final grade of 71 to 80 will receive a ‘C’**  **A final grade of <71% constitutes failure.** |  |

**Attendance Policy:** At The University of Texas at Arlington, taking attendance is not required. Rather, each faculty member is free to develop his or her own methods of evaluating students’ academic performance, which includes establishing course-specific policies on attendance. As the instructor of this section, attendance & participation in the synchronous online sessionsand in the threaded discussions is expected of all students. Students are expected to communicate via email &/or telephone to instructor queries sent by email or Blackboard announcements as requested. Students are responsible for all missed course information.

**Drop Policy:** Students may drop or swap (adding and dropping a class concurrently) classes through self-service in MyMav from the beginning of the registration period through the late registration period. After the late registration period, students must see their academic advisor to drop a class or withdraw. Undeclared students must see an advisor in the University Advising Center. Drops can continue through a point two-thirds of the way through the term or session. It is the student's responsibility to officially withdraw if they do not plan to attend after registering. **Students will not be automatically dropped for non-attendance**. Repayment of certain types of financial aid administered through the University may be required as the result of dropping classes or withdrawing. For more information, contact the Office of Financial Aid and Scholarships (<http://wweb.uta.edu/aao/fao/>).

**Americans with Disabilities Act:**  The University of Texas at Arlington is on record as being committed to both the spirit and letter of all federal equal opportunity legislation, including the *Americans with Disabilities Act (ADA)*. All instructors at UT Arlington are required by law to provide "reasonable accommodations" to students with disabilities, so as not to discriminate on the basis of that disability. Any student requiring an accommodation for this course must provide the instructor with official documentation in the form of a letter certified by the staff in the Office for Students with Disabilities, University Hall 102. Only those students who have officially documented a need for an accommodation will have their request honored. Information regarding diagnostic criteria and policies for obtaining disability-based academic accommodations can be found at [www.uta.edu/disability](http://www.uta.edu/disability) or by calling the Office for Students with Disabilities at (817) 272-3364.

**Title IX:** The University of Texas at Arlington is committed to upholding U.S. Federal Law “Title IX” such that no member of the UT Arlington community shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity. For more information, visit [www.uta.edu/titleIX](http://www.uta.edu/titleIX).

**Academic Integrity:**  Students enrolled all UT Arlington courses are expected to adhere to the UT Arlington Honor Code:

*I pledge, on my honor, to uphold UT Arlington’s tradition of academic integrity, a tradition that values hard work and honest effort in the pursuit of academic excellence.*

*I promise that I will submit only work that I personally create or contribute to group collaborations, and I will appropriately reference any work from other sources. I will follow the highest standards of integrity and uphold the spirit of the Honor Code.*

UT Arlington faculty members may employ the Honor Code as they see fit in their courses, including (but not limited to) having students acknowledge the honor code as part of an examination or requiring students to incorporate the honor code into any work submitted. Per UT System *Regents’ Rule* 50101, §2.2, suspected violations of university’s standards for academic integrity (including the Honor Code) will be referred to the Office of Student Conduct. Violators will be disciplined in accordance with University policy, which may result in the student’s suspension or expulsion from the University.

**Plagiarism:** Copying another student’s paper or any portion of it is plagiarism. Copying a portion of

published material (e.g., books or journals) without adequately documenting the source is plagiarism.

Consistent with APA format, if five or more words in sequence are taken from a source, those words must be placed in quotes and the source referenced with author’s name, date of publication, and page number of publication. If the author’s ideas are rephrased, by transposing words or expressing the same idea using different words, the idea must be attributed to the author by proper referencing giving the author’s name and date of publication. If a single author’s ideas are discussed in more than one paragraph, the author must be referenced, according to APA format. Authors whose words or ideas have been used in the preparation of a paper must be listed in the references cited at the end of the paper. Students are expected to review the plagiarism module from the UT Arlington Central Library via <http://library.uta.edu/tutorials/Plagiarism>

**Student Support Services Available**: UT Arlington provides a variety of resources and programs designed to help students develop academic skills, deal with personal situations, and better understand concepts and information related to their courses. Resources include tutoring, major-based learning centers, developmental education, advising and mentoring, personal counseling, and federally funded programs. For individualized referrals, students may visit the reception desk at University College (Ransom Hall), call the Maverick Resource Hotline at 817-272-6107, send a message to [resources@uta.edu](mailto:resources@uta.edu), or view the information at [www.uta.edu/resources](http://www.uta.edu/resources).

**Electronic Communication Policy:** UT Arlington has adopted MavMail as its official means to communicate with students about important deadlines and events, as well as to transact university-related business regarding financial aid, tuition, grades, graduation, etc. All students are assigned a MavMail account and are responsible for checking the inbox regularly. There is no additional charge to students for using this account, which remains active even after graduation. Information about activating and using MavMail is available at <http://www.uta.edu/oit/cs/email/mavmail.php>.

**Student Feedback Survey:** At the end of each term, students enrolled in classes categorized as “lecture,” “seminar,” or “laboratory” shall be directed to complete an online Student Feedback Survey (SFS). Instructions on how to access the SFS for this course will be sent directly to each student through MavMail approximately 10 days before the end of the term. Each student’s feedback enters the SFS database anonymously and is aggregated with that of other students enrolled in the course. UT Arlington’s effort to solicit, gather, tabulate, and publish student feedback is required by state law; students are strongly urged to participate. For more information, visit <http://www.uta.edu/sfs>.

**Final Review Week:** A period of five class days prior to the first day of final examinations in the long sessions shall be designated as Final Review Week. The purpose of this week is to allow students sufficient time to prepare for final examinations. During this week, there shall be no scheduled activities such as required field trips or performances; and no instructor shall assign any themes, research problems or exercises of similar scope that have a completion date during or following this week *unless specified in the class syllabus*. During Final Review Week, an instructor shall not give any examinations constituting 10% or more of the final grade, except makeup tests and laboratory examinations. In addition, no instructor shall give any portion of the final examination during Final Review Week. During this week, classes are held as scheduled. In addition, instructors are not required to limit content to topics that have been previously covered; they may introduce new concepts as appropriate.

**Librarian to Contact:**

**PEACE WILLIAMSON, STEM Outreach & Scholarship**

CENTRAL LIBRARY

702 Planetarium Place

Office #206, Arlington, TX 76019  
[peace@uta.edu](mailto:peace@uta.edu)

[**http://libguides.uta.edu/nursing**](http://libguides.uta.edu/nursing)

**College of Nursing additional information:**

**Status of RN Licensure:** All graduate nursing students must have an unencumbered license as designated by the Texas Board of Nursing (BON) to participate in graduate clinical nursing courses. It is also imperative that any student whose license becomes encumbered by the BON must immediately notify their Associate Dean for the MSN Program, Department of Advanced Practice Dr. Gray/Dr. Schira. The complete policy about encumbered licenses is available online at: [www.bon.state.tx.us](http://www.bon.state.tx.us)

**Confidentiality Agreement**

You signed a Confidentiality Form in orientation and were provided a copy of the form. Please take your copy of this Confidentiality Form with you to your clinical sites. Please do not sign other agency confidentiality forms. Contact your faculty if the agency requires you to sign their confidentiality form.

**Student Code of Ethics:** The University of Texas at Arlington College of nursing supports the Student Code of Ethics Policy. Students are responsible for knowing and complying with the Code. The Code can be found in the student handbook online: <http://www.uta.edu/nursing/handbook/toc.php>

**No Gift Policy:** In accordance with Regent Rules and Regulations and the UTA Standards of Conduct, the College of Nursing has a “no gift” policy. A donation to one of the UTA College of Nursing Scholarship Funds, found at the following link: <http://www.uta.edu/nursing/scholarship_list.php> would be an appropriate way to recognize a faculty member’s contribution to your learning.  For information regarding Scholarship Funds, please contact the Dean’s office.

**Course Evaluation:**

Course evaluation is a continuous process and is the responsibility of both the faculty and the students. Ongoing feedback (formative evaluation) is the only way to improve the course and to assure that it meets your needs and those of the discipline of nursing. It is your responsibility to give immediate, constructive feedback regarding class structure and process.

Formal evaluation of the course and the instructor occurs at the end of the course. You will receive instructions at your University of Texas at Arlington e-mail address about how to complete the course evaluations online. Your ratings and comments are sent to a computer not connected to the College of Nursing, and faculty members do not receive the results until after they have turned in course grades.

**Online Conduct:** The discussion board should be viewed as a public and professional forum for course-related discussions. Students are free to discuss academic matters and consult one another regarding academic resources. The tone of postings should be professional in nature.

It is not appropriate to post statements of a personal or political nature, or statements criticizing classmates or faculty. Inappropriate statements/language will be deleted by the course faculty and may result in denied access to the Discussion boards. Refer to UTACON Student Handbook for more information.

***For this course Blackboard communication tools, discussion boards, and UTA MAV email will be used extensively and should be checked often.***

**Writing Center**

The English Writing Center, Room 411 in the Central Library, provides support to UT-Arlington undergraduate and graduate students and instructors. Undergraduate and graduate student consultants in the Writing Center are trained to help student writers at any stage in their writing processes. Consultants are trained to attend to rhetorical and organizational issues that instructor’s value in student writing. Although consultants will assist students in identifying and correcting patterns of grammatical or syntactical errors, they are taught to resist student entreaties to become editors or proofreaders of student papers.

The Writing Center offers tutoring for any assigned writing during enrollment at UT-Arlington. During Fall 2012, Writing Center hours are 9 a.m. to 7 p.m., Monday through Thursday; 9 a.m. to 2 p.m., Friday; and 2 p.m. to 6 p.m. Sunday. Individuals may schedule appointments online by following directions available at [www.uta.edu/owl](http://www.uta.edu/owl), or by visiting the Writing Center.

The Writing Center Director, Assistant Director, or tutors are available to make classroom presentations describing Writing Center services. The Writing Center also offers workshops on topics such as documentation and will design specialized workshops at the request of instructors. To schedule a classroom visit or inquire about a workshop, please e-mail or call Tracey-Lynn Clough, Writing Center director, at [clought@uta.edu](mailto:clought@uta.edu) or 817-272-2517.

**Departmental Office/Support Staff**

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