

DRSC 3313
Health Informatics and Information Systems
Spring 2023 Course Syllabus

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Office: Virtual | (972) 743 – 0433 (text or call)

Office Hours: By appointment

Class Type: Online 100% CRN: 23916

COURSE INFORMATION:

Catalog Course Description: Health Informatics and Information Systems is a 3-credit course. This course is an introduction to the structure and principles of health care informatics and the dynamics of information management technologies used in the health care environment. Applications of informatics, electronic services, and e-care in health care delivery, chronic disease and disability management. Hands-on experience with current technologies.

Course Prerequisites: Admission to the Bachelor of Science in Rehabilitation program or department approval.

Course Goals:

1. Introduce students to structure and principles of health care informatics
2. Provide opportunities for experiential learning using the various information management technologies used in the health care environment.
3. Show examples of applications of informatics, electronic services and e-care in health care delivery, chronic disease and disability management.
- 4.

Learner Objectives. Upon completion of this course the student will be able to:

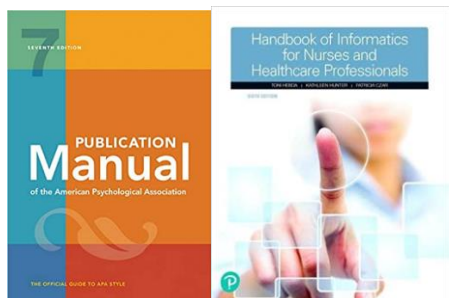
1. Describe the various applications of health informatics applications in the health care delivery and health management systems, including electronic health records, computerized physician order entry (CPOE), clinical decision support systems, disease management, disease registries, patient informatics and telehealth.
2. Evaluate the benefits, drawbacks and challenges of various health informatics applications, including impact on communications, research and clinical practice.
3. Demonstrate competent use of mobile devices and computer technology for an assigned informatics application.

UTEP EDGE Experiences: Learning Communities, Creative Activities, Student Leadership

UTEP EDGE Advantages: Leadership, Problem-Solving, Communication, Entrepreneurship, Social Responsibility, Confidence, Global Awareness, Teamwork, Critical Thinking

TEACHING METHODOLOGIES:

Textbook, Articles/News Items, Video, Blackboard LMS, Discussion Board, Quizzes, and Reflection Journals

RECOMMENDED TEXTBOOKS:

American Psychological Association. (2020). *Publication manual of the American Psychological Association*. (7th edition). Washington, D.C.: American Psychological Association.

Hebda, T., Hunter, K., & Czar, P. (2019). *Handbook of informatics for nurses & healthcare professionals* (6th ed.). Boston, MA: Pearson.

COURSE ASSIGNMENTS AND GRADING SCALE:

Activity	Points	Total Max Points
Attendance (4 DB postings)	25 points	100 points
Quizzes (7)	10 - 20 points	100 points
Website Evaluation PPT (1)	50 points	50 points
SOAP Note Assignment (1)	50 points	50 points
		300 points

Time Stamps Learning Management System (LMS)

- Attendance, participation, and all LMS (Blackboard LMS) postings are counted in Mountain Time (MST). The time stamps in the computer represent MST, regardless of your actual time zone. Required attendance is at least 3 times per week to obtain possible full points.

Discussion Boards (4)

- Discussion Boards will be open from Monday thru Saturday of the scheduled week. **Original/Initial posts (your own discussion posting – at least 300 words)** are due that Tuesday as is indicated in the course schedule/calendar. Respond to at least two

classmate's posts (**at least 150 words**) by Saturday that week, as indicated on the due date in course schedule/calendar. You must respond on two different days.

Assignments (2)

- Assignments are due by **11:59pm (MST)** on the **due date calendar/course schedule**. Late work is normally not accepted except you had an emergency. However, life happens, and I may allow late work depending on the circumstances. But, there will be a **deduction of 10% from the total assignment points per 24 hours past the due date**. The only exception is with extenuating circumstances or events that have been discussed with the instructor PRIOR to the deadline.

1) Website evaluation PPT

Health literacy is a growing concern in health care. This lesson “Health Literacy” addresses the growing concern. Practitioners assume major responsibility for patient education which is often incorporated within our daily interactions with patients and their families. Formal patient education is documented within the patient record; often as part of discharge instructions which is a legal document. As the general population becomes more involved with gaining access to health information on the Internet, practitioners need to become equally proficient in evaluating Internet sites that provide accurate health information.

Create a presentation that is 7 – 10 slides, evaluating a website that would be used professionally by a practitioner OR one to use with a patient/client population. Only one website is required. Use the criteria in below to evaluate the website. Be creative, use graphics, limit text, include a cover page slide and references slide, and have fun with the project!

Guidelines for a presentation: <https://libguides.hccfl.edu/powerpoint/tips>

2) SOAP Note Assignment

As a future rehabilitation practitioner, documentation is an essential part of your job regardless of your career track (e.g., OT, PT, SLP, RC). This assignment has two parts.

The first part is to research what is a SOAP note. Write at least a half page describing a SOAP note.

The second part is applying SOAP note. There are various case study examples you can search online. Find an appropriate case study or use a hypothetical case example of a patient/client. Never use a real patient/client information. Document the case based on SOAP note, as a practitioner. It should be APA format with references, citations, and current scholarly sources (at least one source). The paper should have a cover page and a reference

page and it should be at least two (2) to three (3) pages long, Times New Roman, 12pt, double-spaced,

1) **What is SOAP note?**

2) **Case example** present the case example.

3) **SOAP note details** that you can demonstrate your understanding of the case followed by SOAP note technique.

Quizzes (7)

- Quizzes will be available for a specific timeframe, they open on Monday and close on Friday, (as indicated on the class calendar/schedule). Once all quizzes are completed, feedback on the questions will be released. If you would like specific feedback based on your quiz responses, please contact the course faculty for an appointment to review your quiz.

GRADING SCALE:

Grading scale:

90 - 100	= A
80 – 89	= B
75 – 79	= C
60 – 74	= D
< 60	= F

CLASS POLICIES:

Attendance and Participation: Attendance in the course is determined by participation in the learning activities of the course. Your participation in the course is important not only for your learning and success but also to create a community of learners. Participation is determined by completion of the following activities:

- Reading/Viewing all course materials to ensure understanding of assignment requirements
- Participating in engaging discussion with your peers on the discussion boards (grading rubric provided in the “grading information” area of each forum)
- Participating in scheduled Blackboard Collaborate sessions
- Other activities as indicated in the weekly modules

- Because these activities are designed to contribute to your learning each week, they cannot be made up after their due date has passed.

Excused Absences and/or Course Drop Policy: According to UTEP Curriculum and Classroom Policies, “When, in the judgment of the instructor, a student has been absent to such a degree as to impair his or her status relative to credit for the course, the instructor may drop the student from the class with a grade of “W” before the course drop deadline and with a grade of “F” after the course drop deadline.” See academic regulations in the UTEP Undergraduate Catalog for a list of excuse absences. Therefore, if I find that, due to non-performance in the course, you are at risk of failing, I will drop you from the course. I will provide 24 hours advance notice via email.

OR

I will not drop you from the course. However, if you feel that you are unable to complete the course successfully, please let me know and then contact the [Registrar’s Office](#) to initiate the drop process. If you do not, you are at risk of receiving an “F” for the course.

DEADLINES, LATE WORK, AND OTHER POLICY:

MAJOR ASSIGNMENTS: **No late work will be accepted if the reason is not considered excusable.** Excusable late work must be approved by faculty, preferably before work is due.

MAKE-UP WORK: **Make-up work will be given *only* in the case of a *documented* emergency.** Note that make-up work may be in a different format than the original work, may require more intensive preparation, and may be graded with penalty points. If you miss an assignment and the reason is not considered excusable, you will receive a zero. It is therefore important to reach out to me—in advance if at all possible—and explain with proper documentation why you missed a given course requirement. Once a deadline has been established for make-up work, no further extensions or exceptions will be granted.

ALTERNATIVE MEANS OF SUBMITTING WORK IN CASE OF TECHNICAL ISSUES: I strongly suggest that you **submit your work with plenty of time to spare in the event that you have a technical issue with the course website, network, and/or your computer.** I also suggest you save all your work (answers to discussion points, quizzes, exams, and essays) in a separate Word document as a back-up. This way, you will have evidence that you completed the work and will not lose credit. If you are experiencing difficulties submitting your work through the course website, please contact the UTEP Help Desk. You can email me your back-up document as a last resort.

INCOMPLETE GRADE POLICY: Incomplete grades may be requested only in exceptional

circumstances after you have completed at least half of the course requirements. Talk to me immediately if you believe an incomplete is warranted. If granted, we will establish a contract of work to be completed with deadlines.

ACCOMMODATIONS POLICY: If you have a disability and need classroom accommodations, please contact The Center for Accommodations and Support Services (CASS). The University is committed to providing reasonable accommodations and auxiliary services to students, staff, faculty, job applicants, applicants for admissions, and other beneficiaries of University programs, services and activities with documented disabilities in order to provide them with equal opportunities to participate in programs, services, and activities in compliance with sections 503 and 504 of the Rehabilitation Act of 1973, as amended, and the Americans with Disabilities Act (ADA) of 1990 and the Americans with Disabilities Act Amendments Act (ADAAA) of 2008. Reasonable accommodations will be made unless it is determined that doing so would cause undue hardship on the University. Students requesting an accommodation based on a disability must register with the [UTEP Center for Accommodations and Support Services](#) (CASS). Contact the Center for Accommodations and Support Services at 915-747-5148, or email them at cass@utep.edu, or apply for accommodations online via the [CASS portal](#).

SCHOLASTIC INTEGRITY: Academic dishonesty is prohibited and is considered a violation of the UTEP Handbook of Operating Procedures. It includes, but is not limited to, cheating, plagiarism, and collusion. Cheating may involve copying from or providing information to another student, possessing unauthorized materials during a test, or falsifying research data on laboratory reports. Plagiarism occurs when someone intentionally or knowingly represents the words or ideas of another as ones' own. Collusion involves collaborating with another person to commit any academically dishonest act. Any act of academic dishonesty attempted by a UTEP student is unacceptable and will not be tolerated. All suspected violations of academic integrity at The University of Texas at El Paso must be reported to the [Office of Student Conduct and Conflict Resolution \(OSCCR\)](#) for possible disciplinary action. To learn more, please visit [HOOP: Student Conduct and Discipline](#).

CLASS RECORDINGS: The use of recordings will enable you to have access to class lectures, group discussions, and so on in the event you miss a synchronous or in-person class meeting due to illness or other extenuating circumstance. Our use of such technology is governed by the Federal Educational Rights and Privacy Act (FERPA) and UTEP's acceptable-use policy. A recording of class sessions will be kept and stored by UTEP, in accordance with FERPA and UTEP policies. Your instructor will not share the recordings of your class activities outside of course participants, which include your fellow students, teaching assistants, or graduate assistants, and any guest faculty or community-based learning partners with whom we may engage during a class session. You may not share recordings outside of this course. Doing so may result in disciplinary action.

COPYRIGHT STATEMENTS FOR COURSE MATERIALS: All materials used in this course are protected by copyright law. The course materials are only for the use of students currently enrolled in this course and only for the purpose of this course. They may not be further disseminated.

NOTICE OF POLICY ON CHEATING: Students are expected to be above reproach in all scholastic activities. Students who engage in scholastic dishonesty are subject to disciplinary penalties, including the possibility of failure in the course and dismissal from the university. “Scholastic dishonesty includes but is not limited to cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another student, any act designed to give unfair advantage to a student or the attempt to commit such acts.” Regent’s Rules and Regulations, Part One, Chapter VI, Section 3.2, Subdivision 3.22. Since scholastic dishonesty harms the individual, all students, and the integrity of the University, policies on scholastic dishonesty will be strictly enforced.

From the UTEP Dean of Student Affairs

(<http://studentaffairs.utep.edu/Default.aspx?tabid=4386>).

It is an official policy of university that all suspected cases or acts of alleged scholastic dishonesty must be referred to the Dean of Students for investigation and appropriate disposition. Any student who commits an act of scholastic dishonesty is subject to discipline. Scholastic dishonesty includes, but is not limited to cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts.

“Cheating” includes:

- Copying from the test paper of another student, engaging in written, oral, or any other means of communication with another student during a test, or giving aid to or seeking aid from another student during a test;
- Using, obtaining, or attempting to obtain by any means the whole or any part of non-administered test, test key, homework solution, or computer program; using a test that has been administered in prior classes or semesters but which will be used again either in whole or in part without permission of the instructor; or accessing a test bank without instructor permission;
- Collaborating with or seeking aid from another student for an assignment without authority;
- Substituting for another person, or permitting another person to substitute for oneself, to take a test; and
- Falsifying research data, laboratory reports, and/or other records or academic work offered for credit;

Plagiarism means the appropriation, buying, receiving as a gift, or obtaining by any means another's work and the unacknowledged submission or incorporation of it in one's own academic work offered for credit, or using work in a paper or assignment for which the student had received credit in another course without direct permission of all involved instructors. NOTE: This includes cutting-and-pasting and photocopying from on-line and other material.

Collusion means the unauthorized collaboration with another person in preparing academic assignments offered for credit or collaboration with another person to commit a violation of any provision of the rules on scholastic dishonesty. If you are found to be cheating or plagiarizing, you will be subject to disciplinary action, per UTEP catalog policy. Refer to <http://www.utep.edu/dos/acadintg.htm> for further information

COVID-19 PRECAUTIONS: Since COVID19 guideline are fluid, please check the UTEP website for guidance, when needed. <https://www.utep.edu/ehs/covid/>

Computer Requirements:

Use the browser checker to ensure you have all of the necessary plugins installed on your computer that you will need in order to access all the content in this course. This browser checker will test browser compatibility, cookies, JavaScript, pop-up and other Java features.

Browser Performance Hints

- Clear browser cache
- Allow pop-ups
- Make sure your Java is up-to-date
- Follow the steps at [Blackboard Learn browser checker](#)

Software Requirements:

When creating documents, slide presentations, spreadsheets, etc., you must use Microsoft Office or a compatible program (see **10 Free MS Word Alternatives**). If you are using Windows Vista or Office 2007, you may have compatibility problems and others in the course may not be able to view your work. Go to the UTEP-IT website's "**Patches & Updates**" area to download a "compatibility toolkit" (it is listed under the "Patches and Updates" column). Also check your course syllabus for specific software instructions from your instructor.

Recommended software

Adobe Acrobat

Adobe Flash Player

Java

QuickTime

Windows Media Player

Supported Browsers

Learning Resources:

UTEP provides a variety of student services and support. Familiarize yourself with the bookmarks on the right-hand side of the Blackboard student portal (visible before entering into a course) as well as the resources below.

- **UTEP Library** - access to a wide range of resources including online, full-text access to thousands of journals and eBooks plus reference service and librarian assistance for enrolled students.
- **RefWorks** - bibliographic citation tool; check out the RefWorks **tutorial** and **Fact Sheet and Quick-Start Guide**
- **University Writing Center (UWC)** - submit papers here for assistance with writing style and formatting, ask a tutor for help and explore other writing resources available here
- **Math Tutoring Center (MaRCS)** - ask a tutor for help and explore other math resources available here
- **History Tutoring Center (HTC)** - submit papers here for assistance with writing history papers, ask a tutor for help and explore other history resources available here
- **Illuminate** - online virtual classroom/conference room with multiple features including audio, video, instant messaging, interactive whiteboard, application sharing, file transfer, and session recording/playback with synchronized audio/chat/notes.
Recommended Hardware for Illuminate -
 - Headphones
 - preferred rather than external speakers to avoid audio feedback being picked up by the mic
 - Microphone
 - a webcam microphone will work, but often a separate mic positioned closer to the mouth picks up less background noise
 - Webcam
 - for transmitting live video of the session participant(s)
 - Video camera
 - for transmitting live video of a procedure or demonstration
- **Safe Assign** - online submission of paper compares your work to published papers and checks for plagiarism
- **Netiquette** - "Netiquette" stands for "Internet Etiquette", and refers to the set of practices developed over the years to make the Internet experience pleasant for everyone. Please review some of the **Netiquette** rules and take the Netiquette Quiz (Non-Graded) to see how your personal knowledge of Netiquette is.

UTEP Virtual Private Network:

UTEP's electronic resources (i.e. Library resources) are available to registered students when working from outside the campus network. In order to access these resources, you will need to set up a Virtual Private Network (VPN) that basically recognizes you are a UTEP student and can look for journals and use subscriptions UTEP/You have paid for. Setting up a VPN is simple, click on the following link to see a visual tutorial: [UTEP VPN](#).

Technical Assistance: This online class is hosted by UT El Paso. If you have computer, Blackboard problems, or any other kind of technical questions, please contact the UTEP Help Desk via email at helpdesk@utep.edu or by phone at (915) 747-5257. The HELP desk hours are: Mon-Fri 7:00am - 8:00pm (Mountain Time), Sat 9:00am - 1:00pm (Mountain Time), Sun CLOSED.

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COURSE RESOURCES:

UTEP provides a variety of student services and support:

Technology Resources

- [Help Desk](#): Students experiencing technological challenges (email, Blackboard, software, etc.) can submit a ticket to the UTEP Helpdesk for assistance. Contact the Helpdesk via phone, email, chat, website, or in person if on campus.

Academic Resources

- [UTEP Library](#): Access a wide range of resources including online, full-text access to thousands of journals and eBooks plus reference service and librarian assistance for enrolled students.⁸
- [University Writing Center \(UWC\)](#): Submit papers here for assistance with writing style and formatting, ask a tutor for help and explore other writing resources.
- [Math Tutoring Center \(MaRCS\)](#): Ask a tutor for help and explore other available math resources.
- [History Tutoring Center \(HTC\)](#): Receive assistance with writing history papers, get help from a tutor and explore other history resources.
- [RefWorks](#): A bibliographic citation tool; check out the RefWorks tutorial and Fact Sheet and Quick-Start Guide.

Individual Resources

- [Military Student Success Center](#): Assists personnel in any branch of service to reach their educational goals.
- [Center for Accommodations and Support Services](#): Assists students with ADA-related accommodations for coursework, housing, and internships.
- [Counseling and Psychological Services](#): Provides a variety of counseling services including individual, couples, and group sessions as well as career and disability assessments.

Appendix A. Website Evaluation Rubric

	Needs Improvement	Foundational	Proficient	Distinguished
Originality	Presentation is a rehash of other people's ideas and/or graphics and shows very little attempt at original thought.	Presentation shows an attempt at originality and inventiveness on a few slides.	Presentation shows some originality and inventiveness. The content and ideas are presented in an interesting way.	Presentation shows considerable originality and inventiveness. The content and ideas are presented in a unique and interesting way.
Effectiveness	Project is lacking several key elements and has inaccuracies.	Project is missing more than two key elements.	Project includes most material needed to gain a comfortable understanding of the material but is lacking one or two key elements.	Project includes all material needed to gain a comfortable understanding of the topic.
Sequencing of Information	There is no clear plan for the organization of information.	Some information is logically sequenced. There are sections where information is not clear and concise.	Most information is organized in a clear, logical way. One card or item of information seems out of place.	Information is organized in a clear, logical way. It is easy to anticipate the type of material that might be on the next slide.
Content Accuracy	Content is typically confusing or contains more than one factual error	The content is generally accurate, but some pieces of information are clearly flawed or inaccurate	Most of the content is accurate but there is one piece of information that might be inaccurate.	All content throughout the presentation is accurate. There are no factual errors.
Requirements	More than one requirement was not completely met.	One requirement was not completely met.	All requirements are met.	All requirements are met and exceeded.
Use of Graphics	Several graphics are unattractive and detract from the content of the presentation.	All graphics are attractive, but a few do not seem to support the theme/content of the presentation.	A few graphics are not attractive, but all support the theme/content of the presentation.	All graphics are attractive (size and colors) and support the theme/content of the presentation.
Organization	There was no clear or logical organizational structure, just lots of facts	Content is logically organized for the most part.	Uses headings or bulleted lists are organized, but the overall organization of topic appears flawed.	Content is well organized using headings or bulleted lists to group related material.
Sources of APA Format	Very little or no source information was collected.	Source information collected for graphics, facts and quotes, but not documented in APA format	Source information collected for all graphics, facts and quotes. Most documented in APA format.	Source information collected for all graphics, facts and quotes. All documented in APA format.

DRSC 3313 DUE DATE CALENDAR

Spring 2023

****ALL ASSIGNMENTS, DISCUSSION BOARD (DB) POSTINGS, and VISUAL LEARNING ARE DUE BY 11:59 PM MST ON THE DAY INDICATED****
 QUIZZES are due and close on Fridays for the week indicated

Day of the Week	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 1 1/17 – 1/22	16	17 DB: Self- Introduction on Blackboard DB APA Quiz Open	18	19	20 APA Quiz due/closes	21 DB: Respond to Peers	22 What is Informatics? https://youtu.be/pzS-PaGC9o
Week 2 1/23-1/29	23	24 DB: My Experience with Informatics: Win That Grant!	25	26	27	28 DB: Respond to Peers	29 HIPAA https://www.youtube.com/watch?v=CRQwUjXMoqM
Week 3 1/30-2/5	30 Chapter 1 Quiz Open	31	1	2	3 Quiz due/closes	4	5 Charting components https://www.youtube.com/watch?v=tN3HKr23zbM
Week 4 2/6-2/12	6	7 DB: Clinical Information Systems in Action	8	9	10	11 DB: Respond to Peers	12
Week 5 2/13-2/19	13 Chapter 2 & 3 Quiz Open	14	15	16	17 Quiz due/closes	18	19 EHR PodCast https://youtu.be/JoMinYoiFhw

Week 6 2/20-2/26	20	21	22	23	24	25	26
	Chapter 4, 13, & 18 Quiz Open				Quiz due/closes		
Week 7 2/27-3/5	27	28	1	2	3	4	5
	Research and work on Website PPT and SOAP Note projects.						Example of EHR/EMR: www.youtube.com/ watch?v=hHnHI98 BsPw
Week 8 3/6-3/12	6	7	8	9	10	11	12
					Website Evaluation PPT Due		
Week 9 3/13 – 3/19	13	14	15	16	17	18	19
	Spring Break	Spring Break	Spring Break	Spring Break	Spring Break	Spring Break	Spring Break
Week 10 3/20-3/26	20	21	22	23	24	25	26
	Ch. 8, 9, 10, 11, 12, & 14 Quiz Open				Quiz due/closes		EHR video: https://youtu.be/xB tSFJsjsw
Week 11 3/27-4/2	27	28	29	30	31	1	2
		DB: Tele Health and Care				DB: Respond to Peers	
Week 12 4/3 – 4/9	3	4	5	6	7	8	9
	Chapter 5, 6, 16, & 20 Quiz Open				Quiz due/closes		
Week 13 4/10 – 4/16	10	11	12	13	14	15	16
	Research and work on SOAP Note project.						

Week 14	17	18	19	20	21	22	23
4/17 – 4/23						What is a SOAP note? Due	
Week 15	24	25	26	27	28	29	30
4/24 – 4/30	Chapter 19 Quiz Open				Quiz due/closes		
Week 16	1	2	3	4	5	6	7
5/1 – 5-4	Please Complete the Evaluation of Course/Teacher Survey Extra Credit						

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