



SCHOOL OF INFORMATICS AND COMPUTING

INDIANA UNIVERSITY
Department of BioHealth Informatics
IUPUI

HIM-M400 Health Information Research and Analysis Methods Campus Based

Department of BioHealth Informatics
Indiana University School of Informatics and Computing, Indianapolis

- Sections:* *Credit Hours:* 3
- Time:* This is a **campus course**. Lectures will be posted on a weekly basis for students to review. Online attendance is taken Thursday by 1:00 PM (make sure you are signing in each week before this to get attendance). On Campus Attendance will be taken at 9:05 AM on Wednesday. See [attendance policy](#) for clarification.
- Location:* Online and WK 321-
- First Class:* This is an **online course and on-campus**. **Lectures can be found in Kaltura My Media area. You are expected to listen to the recordings and there can be notes regarding the homework. Do not email for homework clarification without checking here first.**
- Instructor:*
- Office Hours:* Tuesday 2 PM to 4 PM- Virtually and Wednesday 1:00 PM-3:00 PM or by appointment
- Office:* WK 370D, Walker Plaza Building
719 Indiana Avenue, Indianapolis, IN 46202 [\[map\]](#)
- Phone:* (317) 278-4112 (Office) leave a message if emergency-this will forward to my phone
- Email:* Instructor will respond to emails within two Indiana University working days (48 hours), which excludes weekends and holidays.
- Prerequisites:* None (Not an extension of any undergraduate or graduate course)

COURSE DESCRIPTION

This course introduces methods of research and data analysis for inquiry in health information management. Students develop skills in planning, conducting, reporting, and assessing research and data analysis. These skills are then applied to biomedical data to

support healthcare-related decision-making.

Required Text and Resources:

You should purchase the following resource.

Title: Cengage Unlimited 1 Term 4 months

Author: Cengage

ISBN: 9780357700006

Publisher: Cengage Learning

Please add the following book once you have purchased Cengage Unlimited. You do not need to purchase this book separately.

Title: Research Methods- Ninth Edition

Author: Theresa White and Donald McBurney

ISBN: 978-1-111-84062-4

Publisher: Cengage

The following book is not part of Cengage Unlimited and you should purchase the book from the publisher or bookstore. Please note it is cheaper if you purchase it directly from the publisher.

Text: A Practical Approach to Analyzing Healthcare Data –Third Edition

Author: White, Susan, PhD., CHDA

ISBN: 978-1-58426-527-6

Publisher: American Health Information Management Association

AHIMA Student Membership

You must have an AHIMA student membership for this course.

Teaching and Learning Methods: Online lectures, always check announcements, modules and pages!

Core Competencies: Updated CAHIIM Model Curriculum 2014

Domain III. Informatics, Analytics and Data Use

Subdomain III.C. Analytics and Decision Making

1. Apply analytical results to facilitate decision making
 - * Medicare Data Analysis Assignment, Research Paper, Grant Proposal, Midterm Exam, Final Exam (4)
2. Apply data extraction methodologies
 - * Medicare Data Analysis Assignment, Data Organization, Analysis, and Presentation Assignment, Analyzing Categorical Variables, Continuous Variables and the Relationships Assignment, Sample Size, Data Application and Benchmarking Data Assignment, Research Paper, Grant Proposal, Midterm Exam, Final Exam (4)
3. Recommend organizational action based on knowledge obtained from data exploration and mining
 - * Medicare Data Analysis Assignment, Database and Graphical Display of Data Assignment, Variable, Validity and Control Assignment, Exploratory Data Applications Assignment, Research Paper, Grant Proposal, Midterm Exam, Final

Exam (4)

4. Analyze clinical data to identify trends that demonstrate quality, safety, and effectiveness of healthcare

*Medicare Data Analysis Assignment, Database and Graphical Display of Data Assignment, Variable, Validity and Control Assignment, Exploratory Data Applications Assignment, Research Paper, Grant Proposal, Midterm Exam, Final Exam (4)

Domain III. Informatics, Analytics and Data Use

Subdomain III.C. Analytics and Decision Making

5. Apply knowledge of database querying and data exploration and mining techniques to facilitate information retrieval

* Medicare Data Analysis Assignment, Database and Graphical Display of Data Assignment, Variable, Validity and Control Assignment, Exploratory Data Applications Assignment, Research Paper, Grant Proposal, Midterm Exam, Final Exam

6. Evaluate administrative reports using appropriate software

*Medicare Data Analysis Assignment, Grant Proposal, Research Paper (4)

Domain III. Informatics, Analytics and Data Use

Subdomain III. D. Health Care Statistics

1. Interpret inferential statistics

* Inferential Statistics Assignment, Midterm Exam

2. Analyze statistical data for decision making

* Medicare Data Analysis Assignment, Database and Graphical Display of Data Assignment, Variable, Validity and Control Assignment, Exploratory Data Applications Assignment, Research Paper, Grant Proposal, Midterm Exam, Final Exam

Domain III. Informatics, Analytics and Data Use

Subdomain III.E. Research Methods

1. Apply principles of research and clinical literature evaluation to improve outcomes

* Literature Research Assignment, Medicare Data Analysis Assignment, Grant Proposal, Research Paper (4)

2. Plan adherence to Institutional Review Board (IRB) processes and policies

*Ethics Assignment, Research Paper, Grant Proposal, Midterm Exam, Final Exam (4)

RBT: Revised Bloom's Taxonomy; Profiles of Learning for Undergraduate Success (PLUS)

A comprehensive final examination covers all student learning outcomes. Semester specific student learning outcomes are in boldface.

Profiles of Learning for Undergraduate Success (PLUS)

A. Communicator

1. Evaluates Information
2. Listens Actively
3. Builds Relationships
4. Convey Ideas Effectively

B. Problem Solver

1. Thinks Critically
2. Collaborates
3. Analyzes, Synthesizes, and Evaluates
4. Perseveres

C. Innovator

1. Investigates
 2. Creates/Designs
 3. Confronts Challenges
 4. Makes Decisions
- D. Community Contributor
1. Builds Community
 2. Respectfully Engages Own and Other Cultures
 3. Behaves Ethically
 4. Anticipates Consequences

LEARNING OUTCOMES:

	RBT	PLUS	Assessment
1. Apply analytical results to facilitate decision-making	4	3.4	Final Exam (WK-17),
2. Apply data extraction methodologies	4	3.1	Midterm Exam (WK 9)
3. Recommend organizational action based on knowledge obtained from data exploration and mining	4	2.3	Research Paper (WKS 4, 8,11)
4. Analyze clinical data to identify trends that demonstrate quality, safety, and effectiveness of healthcare	4	2.3	Variable, Validity, and Control Assignment (WK-7)
5. Apply knowledge of database querying and data exploration and mining techniques to facilitate information retrieval	4	3.1	Grant Proposal (WKS 12-16),
6. Evaluate administrative reports using appropriate software	4	2.3	Medicare Data Analysis Assignment (WK 5), Research Paper (WKS 4, 8, 11), Grant Proposal (WKS 12-16)
7. Interpret inferential statistics	2	2.3	Inferential Statistics Assignment (WK-13)
8. Analyze statistical data for decision making	4	3.4	Database and Graphical Display of Data Assignment (WK 6),
9. Apply principles of research and clinical literature evaluation to improve outcomes	4	3.1	Literature Research Assignment (WK-5)
10. Plan adherence to Institutional Review Board (IRB) processes and policies	4	4.3	Grant Proposal (WKS 12-15)

RBT: Revised Bloom's Taxonomy; Profiles of Learning for Undergraduate Success (PLUS)

COURSE SCHEDULE

Week	Chapter and Topic	Assessment	Due
1 1/7- 1/14	<i>Syllabus Quiz</i>	You will be responsible for clicking on the announcement for that week (Week 1 announcement) by Thursday at 1 PM. You must sign in using a desktop or laptop computer. It will NOT register if you use your cell phone. This will be worth a total of 100 pts.	1.14. 5pm
2 1/15- 1/21	Week 1 Continued <i>White and McBurney</i> <i>Psychology and Science</i> <i>Chapter 1</i>	Introduction Discussion 20 pts Syllabus Quiz 20 pts Human Research and HIPAA Test-30 pts Plagiarism Tutorial- 20 pts Psychology and Science Assignment-30 pts	1.18. 5 pm 1.21. 5pm
3 1/21- 1/28	<i>White and McBurney</i> <i>Ethics in Research</i> <i>Chapter 3</i>	Discussion 1 (Ethics)- 20 pts Ethics Assignment- 60 pts	1.25. 5 pm 1.28. 5pm
4 1/28- 2/4	<i>White and McBurney</i> <i>Developing a Research Question</i> <i>Chapter 2</i>	Literature Research Assignment- 30 pts	2.4. 5pm
5 2/4- 2/11	<i>White</i> <i>Introduction to Data Analysis</i> <i>Chapter 1</i> <i>Data in Healthcare</i> <i>Chapter 2</i>	Medicare Data Analysis Website Assignment- 30 pts	2.11. 5pm

6 2/11- 2/18	<u>White</u> <i>Tools for Data Organization, Analysis, and Presentation Chapter 3</i>	Database and Graphical Display of Data Assignment- 50 pts	2.18. 5pm
7 2/18- 2/25	<u>White and McBurney</u> <i>Variables Chapter 5</i> <i>Validity Chapter 6</i> <i>Control Chapter 7</i> Andrew Pappas- ISDH- Senior Environmental Manager-Guest Lecture- Everyone is welcome. Dress Professional- February 20, 2019	Discussion 2 (Validity)- 20 pts Variable, Validity and Control Assignment- 50 pts	2.22. 2.25. 5pm
8 2/25- 3/4	<u>White and McBurney</u> <i>Non Experimental Research Part 1: Observational, Archival, and Case Study Research Chapter 8</i>	Non Experimental Research Assignment- 30 pts Rough Draft Literature Review Assignment (Title, Introduction, Literature Review, References)-100 pts	3.4. 5pm
9 3/4- 3/11	<u>White and McBurney</u> <i>Non-Experimental Research Part 2: Survey Research Chapter 9</i>	Questionnaire Assignment- 30 pts Midterm Exam- It is worth 275 points and will cover Weeks 1-8. Online students will complete the Midterm Exam using Examity. The exam will open on 3/3/19 at 8 AM and will close on 3/6/19 at 5 PM. On Campus students will take the exam during class on 3/6/19 from 9 AM- 11:40 AM and will use Lockdown Browser/Respondus Monitor. No outside resources will be allowed. If outside resources are used, you will receive a zero for the Exam. The exam is timed. You will have 1.6 minutes per question.	3.11. 5pm

10 3/11- 3/18	<i>Spring Break- No class</i>	No readings or assignments	3.18. 5 pm
11 3/18- 3/25	<i>White and McBurney True Experiments: Part 1: Single Factor Design Chapter 10 True Experiments: Part 2: Factorial Design Chapter 11</i>	Single Factor and Factorial Design Assignment 30 pts Research Paper Due (Title, Abstract, Introduction, Literature Review, Methods, Results, Discussion/Conclusions/Reference Page)- 150 pts	3.25. 5pm
12 3/25- 4/1	<i>White and McBurney Single Subject Experiments Chapter 12 Quasi Experiments Chapter 13 Saptarshi Purkayastha, Ph.D.- Guest Lecture- Google Research Credits Program Grant Winner and IUPUI Assistant Professor, Data Science Health Informatics. Dress Professional. Everyone is welcome.- March 27, 2019</i>	Discussion 3 (Experiments)- 20 pts Single Subject Experiments and Quasi Experiments Assignment- 30 pts	3.29. 5 pm 4.1. 5pm
13 4/1-4/8	<i>White and McBurney Data Exploration Part 1: Graphic and Descriptive Techniques Chapter 14 Data Exploration Part 2: Inferential Statistics Chapter 15</i>	Inferential Statistics Assignment- 30 pts Grant Cover Letter Page, Proposal Summary/Introduction of yourself/Problem Statement-100 pts	4.8. 5pm

14 4/8- 4/15	IHIMA Annual Meeting- You are required to attend the IHIMA Meeting on April 8, 2019 at the Embassy Suites in Noblesville, IN. We will have class on April 10. Brian Dixon, PhD, MPA FHIMSS- Guest Lecture- Topic to be determined. Everyone is welcome. Dress Professional.	IHIMA Annual Meeting Assignment- 150 pts	4.15. 5pm
15 4/15- 4/22	White Exploratory Data Applications Chapter 8	Discussion 4 (Data Applications)- 20 pts Exploratory Data Applications Assignment 30 pts Grant Proposal –Project Objectives, Project Design, Project evaluation, Future Funding/Project Budget - 100 points	4.19. 5 pm 4.22. 5pm
16 4/23- 4/29	White Benchmarking and Analyzing Externally Reported Data Chapter 9	Grant Final Draft Due with all parts- 100 pts	4.29. 5 PM

17 4/29- 5/6	Final Exam	Final Exam- It is worth 490 points and will cover Weeks 1-8. It will be timed and you will have 1.6 minutes per question. Online students will complete the Midterm Exam using Examity. It will open April 28 at 8 AM and close on May 1, 19 at 5 PM. On-Campus students will take the exam in the classroom on 5/1/19 from 9 AM- 11:40 AM and will also use Lockdown Browser/Respondus Monitor. No outside resources will be allowed. If outside resources are used, you will receive a zero for the Exam.	5.1. 5 PM
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Grading Information

Students enrolled in the HIM Plan of Study must maintain a minimum grade of C in all courses. If a student fails to maintain a minimum grade of C the student must retake the course(s) in which a grade of C was not achieved. Students in the HIM program must maintain a minimum grade of C in all courses. If a student fails to maintain a minimum grade of C in a course(s), during the first semester in which a student fails to meet the minimum grade requirement h/she will be placed on Academic Probation retroactive to the semester in which the grade(s) was received. If a student fails to meet the minimum grade required of a C during any subsequent semester, the student will be placed on Academic Probation for a second time, retroactive to the semester in which the grade(s) was received and will be dismissed from the HIM program (see Academic Probation Policy – Professional Program). Faculty will update the CANVAS grade book at the beginning of each semester to reflect the HIM grading scale. You are responsible for keeping track of your own grades. There are no extra credit assignments. Please note: *there is also no rounding up of grades on individual assignments and final grades. The academic expectation is that grades recorded in the grade book should reflect the overall quality and depth of the student's knowledge and understanding of the assigned material.

Grading Scale:

A	< 100% to 93%	Extraordinarily high achievement, quality of work; shows command of the subject matter
A-	< 93% to 90%	
B+	< 90% to 87%	
B	< 87% to 83%	Mastery and fulfillment of all course requirements; good, acceptable work
B-	< 83% to 80%	
C+	< 80% to 77%	
C	< 77% to 73%	Minimally acceptable performance and quality of work
C-	< 73% to 70%	<i>Unacceptable work/Failure</i>
D+	< 70% to 67%	<i>Unacceptable work/Failure</i>
D	< 67% to 63%	<i>Unacceptable work/Failure</i>

D- < 63% to 60% Unacceptable work/Failure

F < 60% to 0% Unacceptable work/Failure

GRADING CRITERIA/COURSE EVALUATION

Assessments	Number	Points Each	Total Group	PUL Assessment
Assignments	12	Various	430	1.1, 1.4, 2.1, 2.3, 3.1, 3.4, 4.3
Attendance	16	6.25	100	N/A
Discussions	4	20	80	1.1, 1.3, 1.4, 2.1, 2.3, 3.4, 4.1, 4.2
Final Exam	1	490	490	2.1, 2.3
Grant Proposal	3	100	300	1.1, 1.4, 2.1, 2.2, 2.3, 3.2, 3.4
Human Research Assignment	1	30	30	2.1, 4.3
IHIMA Annual Meeting Assignment	1	150	150	1.2, 2.1
Midterm Exam	1	275	275	2.1, 2.3
Plagiarism Assignment	1	20	20	2.1, 2.3, 4.3
Research Paper	2	Various	250	1.1, 1.4, 2.1, 2.2, 2.3, 3.2, 3.4
Syllabus Quiz	1	20	20	1.1
Total Possible	43		2145	

INSTRUCTOR'S GRADING CRITERIA/TIMETABLE

All course material submitted on time will be graded within 7 days of their due date (the Monday of the following unit). Approved late work (with documentation) will be graded within 5 days of the submission date.

EXPECTATIONS, GUIDELINES, AND POLICIES

Attendance:

*****If you are enrolled in an online course there is a requirement to sign into the class and look at the announcement page once a week between Sunday and Thursday. I will be checking to see if each student did this on Thursday at 1 pm each week. If not, you will not be given attendance for that week. This rule is placed so that I can make sure you do not miss an announcement. *****

A basic requirement of this course is that you will participate in all class meetings, whether online or face-to-face, and conscientiously complete all required course activities and assignments. Class attendance is required for classroom-based courses. It entails being present and attentive for the entire class period. Attendance shall be taken in every class. If you do not sign the attendance sheet while in class, you shall be marked absent. Signing the attendance sheet for another student is prohibited. The instructor is required to submit to the Registrar a record of student attendance, and action shall be taken if the record conveys a trend of absenteeism. **Attendance Requirements** – In-class students should review the following attendance requirements for both 8 weeks and 16 week courses carefully:

- Students enrolled in an 8 week course may be absent one class period. The second

absence will be considered unexcused unless it falls under one of the excused absences listed below.

- Students enrolled in a 16 week course may be absent two class periods. The third absence will be considered unexcused unless it falls under one of the excused absences listed below.
- Each unexcused absence will result in a reduction of one full letter grade for the course.

Only the following are acceptable excuses for absences: death in the immediate family (e.g. mother, father, spouse, child, or sibling), hospitalization or serious illness; jury duty; court ordered summons; religious holiday; university/school coordinated athletic or scholastic activities; an unanticipated event that would cause attendance to result in substantial hardship to one's self or immediate family. Absences must be explained with the submission of appropriate documentation to the satisfaction of the instructor, who will decide whether missed work may be made up. Absences that do not satisfy the above criteria are considered unexcused. To protect your privacy, doctor's excuses should exclude the nature of the condition and focus instead on how the condition impacts your attendance and academic performance.

Missing class reduces your grade through the following grade reduction policy: You are allowed two excused or unexcused absences. Each additional absence, unless excused, results in a 5% reduction in your final course grade. More than six absences result in an F in the course. Missing class may also reduce your grade by eliminating opportunities for class participation. For all absences, the student is responsible for all covered materials and assignments.

If you feel that attendance as an in-class student will be a challenge please consider an online section of this course

The student needs to e-mail the instructor via Canvas if s/he will not be attending class.

Tardy Policy –

If you are enrolled in an online course this policy does not apply. There is no tardy, only weekly absence

The Tardy Policy is structured as follows:

- Tardy >15 minutes = 1 Absence
- Tardy (1 – 15) minutes = 1 Tardy
- 3 Tardies = 1 Absence

Students should refer to the No Fault Attendance Policy regarding unexcused absences.

LATE WORK POLICY:

Late work will not be accepted unless there are clear and compelling extenuating circumstances with Documentation. Examples of extenuating circumstances may include but are not limited to: personal/family member hospitalization, childbirth or other medical emergencies, death in the family, weather/environmental evacuation due to fire/hurricane/tornado/earthquake/tsunami/volcano, or active military assignment where Internet connectivity is unavailable for an extended time period.

Please note that evaluation of extenuating circumstances is at the discretion of your instructor

and/or Program Director and PROPER documentation IS for verification of the extenuating circumstance. Proper Documentation will be from a physician with documentation stating the student was not able to perform their assignments (how long the symptoms have been) and when they chose to get treatment. This is required to be loaded before the assignment deadline. For any other emergency extenuating circumstances you send in documentation from the hospital, military, obituary, or environment as soon as it is dated and available.

Extenuating Circumstances: If you have extenuating circumstances that prevent you from completing coursework or participating in the class, please contact your instructor to make alternative arrangements ahead of time. The possibility of alternative arrangements is at the discretion of your instructor and/or Program Director.

Computer-related issues and Internet connectivity issues are not considered extenuating circumstances.

Active communication is the key to overcoming any hurdles you may encounter during the semester. It is your responsibility to inform your instructor (ahead of time, unless emergency circumstances prevent doing so) of extenuating circumstances that might prevent you from completing work by the assigned deadline (Monday 5 PM). Prior notification does not automatically result in granting alternative arrangements and/or a waiver of the late penalties.

Incomplete:

The instructor may assign an Incomplete (I) grade only if at least 75% of the required coursework has been completed at passing quality and holding you to previously established time limits would result in unjust hardship to you. All unfinished work must be completed by the date set by the instructor. Left unchanged, an Incomplete automatically becomes an F after one year. IUPUI Registrar Link

Deliverables:

You are responsible for completing each deliverable (e.g., assignment, quiz) by its deadline and submitting it by the specified method. Deadlines are outlined in the syllabus or in supplementary documents accessible through CANVAS. Should you miss a class, you are still responsible for completing the deliverable and for finding out what was covered in class, including any new or modified deliverable. Please see late policy above.

All assignments will be posted in CANVAS with a COMPLETION DUE DATE.

Assignments will not be opened for review nor will grades be posted until after each assignment due date. When you take a test using the CANVAS Original Test and Survey tool, it is a good idea to create a screenshot of your submitted test. This screenshot serves as additional proof that you completed and submitted your test in the event of CANVAS technical issues. If there is a dispute regarding an assessment (test) or assignment submitted after the assigned due date and time, the above method will be the only accepted proof that an assignment or assessment (test) was submitted. ****Please note-unless the test or quiz has a comment from me it has not been fully graded, do not email me regarding your test grade until I have commented on your exam. ****

Note: To avoid the loss of points for assignments and/or assessments (tests) submitted through CANVAS please read the following information carefully: All assignments submitted through the CANVAS "Assignment" tab automatically generate an e-mail notification. This notification is sent directly to your primary e-mail account. Students will be required to present a copy of this e-mail notification to the instructor if there is a dispute

regarding an assignment submission. Therefore, it is highly recommended that students maintain a file, either electronic or on paper, for each assignment submission notification received. For your information, you cannot save your assignments/work via CANVAS Test and Survey tool and come back to it at a later time. Once an assignment has been submitted it will be graded as is, so be very careful that the assignment you submit is the version you want graded. Be sure you are submitting the correct, complete assignment.

Examity- This course uses a third-party teaching and learning tool through Canvas, the company and the application have been vetted for compliance with IU's policies regarding privacy and data security. As part of the vetting process, all third parties must ensure that 1) they are only accessing data they require to perform the service, and 2) they are securing that data appropriately during both transfer and storage. For more information on data classifications, see [Data Classifications at IU](#).

When using Examity for online exams, government IDs, security questions, and video feeds of the test-taking environment are encrypted to ensure the data is protected from unauthorized access. Only properly authorized people, instructors and the service administrators, have access to the information and the videos that are stored. All videos are saved for a prescribed period of time and then deleted. The individual proctors work in proctoring centers with supervisors overseeing them, and everything they do is recorded on video and audio. You must show your student ID before taking a test.

Distance Education and On-Line Etiquette

When taking a course online, it is important to remember that **an online classroom is still a classroom**. Though the courses may be online, appropriate classroom behavior is still mandatory. Inappropriate discussion responses will not be tolerated and disciplinary action will be taken according to the guidelines outlined in the [Code of Student Rights, Responsibilities and Conduct](#). Remember to maintain current anti-virus protection programs and avoid forwarding email attachments from outside sources that you are uncertain of. Instructor sections in CANVAS include syllabus, announcements, messages, resources, roster, grade book, tests and surveys.

Changes Corrections and Omissions

The instructor reserves the right to make changes as necessary to the syllabus and the class schedule. If changes are necessitated during the term of the course, the instructor will immediately notify students of such changes and nature of change(s) on CANVAS Announcements

DISCUSSION BOARD FORUMS

All Discussion topics can be found within their respective units of the course. This only applies if your course includes a Discussion Forum.

Discussion Question Participation: Discussion provides a forum for students to ask questions and answer important questions about the course material. The Discussion topics also allow students to receive feedback from the instructor and other students in the class. A Discussion grade will be posted to the grade sheet for each unit.

Discussion Board Forum Grading Rubric

Students are expected to post:

A **Minimum of three posts** per unit (Monday – Monday) discussion thread.

1. one post in response to the initial discussion forum topic by *Friday*
2. two posts in response to two classmates by *Monday, end of unit*
3. *Initial response should be 200 words or more and response to classmates should be 75-100 words or more in length*

	Inappropriate	Below Expectations	Meets Expectations	Exceeds Expectations
Initial post timeliness	Provides an initial post after Friday.	N/A	N/A	Provides an initial post by Friday.
Additional comment requirement	Does not post responses to others.	Posts one comment per Discussion topic.	N/A	Posts 2 comments per Discussion topic.
Content Quality Initial Response	Submission does not relate to the topic.	Answers some question/topics with some clearly stated opinions. Supports post using text only.	N/A	Answers all questions with opinions and ideas that are stated clearly. Supports post using text and at least one outside source.
Engagement	N/A	Participates, but does not post anything that encourages others to respond to the posting.	N/A	Frequently attempts to motivate the group discussion.
Spelling/ Grammar/ Formatting/ Mechanics	Significant errors in spelling and/or grammar. Major flaws in writing mechanics and formatting.	Poor spelling and grammar are apparent. Does not use APA style formatting when needed.	Uses Standard American English with rare errors and misspellings. Minor errors in APA style formatting.	Consistently uses Standard American English with rare misspellings. Appropriate mechanics and APA style formatting.
Length	Submission does not meet length requirements.	N/A	N/A	Submission meets the length requirements.

ASSIGNMENTS/PROJECTS

Assignments and/or Projects require you to submit coursework via Canvas. Coursework will be graded according to either the rubric below or assignment-specific rubrics found in the course. Assignments and/or Projects are due Sunday of their assigned unit unless otherwise specified by instructor. ALL ASSIGNMENTS AND/OR PROJECTS MUST BE SUBMITTED VIA CANVAS TO ENSURE CREDIT.

	Inappropriate	Below Expectations	Meets Expectations	Exceeds Expectations
Content Quality Initial Response	Submission does not relate to the topic.	Answers some question/topics, and most opinions and ideas are stated clearly.	Answers all questions, and opinions and ideas are stated clearly.	Answers all questions with opinions and ideas creatively and clearly using text and outside references.

Resources	Does not cite references and/or does not include required number of resources.	Cites source material but may not be accurately referenced. Does not include the required number of resources.	Source material cited with rare errors. All sources referenced accurately. Contains the required amount of resources.	Source material cited without errors. All sources are referenced accurately. Exceeds the required number of resources.
APA Format	Major errors and/or no APA format used.	Minor errors with APA format.	Rare errors with APA format.	No errors with APA format.
Spelling/ Grammar	Significant errors in spelling and/or grammar.	Poor spelling and grammar are apparent.	Uses Standard American English with rare errors and misspellings.	Consistently uses Standard American English with no misspellings.
Length	Submission does not meet length requirements.	N/A	N/A	Submission meets the length requirements.

CODE OF CONDUCT

All students should aspire to the highest standards of academic integrity. Using another student's work on an assignment, cheating on a test, not quoting or citing references correctly, or any other form of dishonesty or plagiarism shall result in a grade of zero on the item and possibly an F in the course. Incidences of academic misconduct shall be referred to the Department Chair and repeated violations shall result in dismissal from the program.

All students are responsible for reading, understanding, and applying the *Code of Student Rights, Responsibilities and Conduct* and in particular the section on academic misconduct. Refer to *The Code > Responsibilities > Academic Misconduct* at Code of Conduct Link <http://www.indiana.edu/~code/>. All students must also successfully complete the Indiana University Department of Education "How to Recognize Plagiarism" Tutorial and Test <https://Plagiarism Link> document the difference between your writing and that of others. Use quotation marks in addition to a citation, page number, and reference whenever writing someone else's words (e.g., following the *Publication Manual of the American Psychological Association*). To detect plagiarism instructors apply a range of methods, including Turnitin.com. [Turnitin Link- http://www.ulib.iupui.edu/libinfo/turnitin](http://www.ulib.iupui.edu/libinfo/turnitin)

Academic Misconduct:

1. **Cheating:** Cheating is considered to be an attempt to use or provide unauthorized assistance, materials, information, or study aids in any form and in any academic exercise or environment.
 - a. A student must not use external assistance on any "in-class" or "take-home" assignment, unless the instructor specifically has authorized external assistance. This prohibition includes, but is not limited to, the use of tutors, books, notes, calculators, computers, and wireless communication devices.
 - b. A student must not use another person as a substitute in the taking of an exam or quiz, nor allow other persons to conduct research or to prepare work, without advanced authorization from the instructor to whom the work is being submitted.
 - c. A student must not use materials from a commercial term paper company, files of

papers prepared by other persons, or submit documents found on the Internet.

- d. A student must not collaborate with other persons on a particular project and submit a copy of a written report that is represented explicitly or implicitly as the student's individual work.
 - e. A student must not use any unauthorized assistance in a laboratory, at a computer terminal, or on fieldwork.
 - f. A student must not steal examinations or other course materials, including but not limited to, physical copies and photographic or electronic images.
 - g. A student must not submit substantial portions of the same academic work for credit or honors more than once without permission of the instructor or program to whom the work is being submitted.
 - h. A student must not, without authorization, alter a grade or score in any way, nor alter answers on a returned Midterm or assignment for credit.
2. **Fabrication:** A student must not falsify or invent any information or data in an academic exercise including, but not limited to, records or reports, laboratory results, and citation to the sources of information.
 3. **Plagiarism:** Plagiarism is defined as presenting someone else's work, including the work of other students, as one's own. Any ideas or materials taken from another source for either written or oral use must be fully acknowledged, unless the information is common knowledge. What is considered "common knowledge" may differ from course to course.
 - a. A student must not adopt or reproduce ideas, opinions, theories, formulas, graphics, or pictures of another person without acknowledgment.
 - b. A student must give credit to the originality of others and acknowledge indebtedness whenever:
 1. directly quoting another person's actual words, whether oral or written;
 2. using another person's ideas, opinions, or theories;
 3. paraphrasing the words, ideas, opinions, or theories of others, whether oral or written;
 4. borrowing facts, statistics, or illustrative material; or
 5. offering materials assembled or collected by others in the form of projects or collections without acknowledgment
 4. **Interference:** A student must not steal, change, destroy, or impede another student's work, nor should the student unjustly attempt, through a bribe, a promise of favors or threats, to affect any student's grade or the evaluation of academic performance. Impeding another student's work includes, but is not limited to, the theft, defacement, or mutilation of resources so as to deprive others of the information they contain.
 5. **Violation of Course Rules:** A student must not violate course rules established by a department, the course syllabus, verbal or written instructions, or the course materials that are rationally related to the content of the course or to the enhancement of the learning process in the course.
 6. **Facilitating Academic Dishonesty:** A student must not intentionally or knowingly help or attempt to help another student to commit an act of academic misconduct, nor allow another student to use his or her work or resources to commit an act of misconduct.

OTHER POLICIES

1. **Right to revise:** The instructor reserves the right to make changes to this syllabus as necessary and, in such an event, will notify students of the changes immediately.
2. **IUPUI course policies:** A number of campus policies governing IUPUI courses may be found at the following link: [IUPUI Registrar
http://registrar.iupui.edu/course_policies.html](http://registrar.iupui.edu/course_policies.html)
3. **Classroom civility:** To maintain an effective and inclusive learning environment, it is important to be an attentive and respectful participant in lectures, discussions, group work, and other classroom exercises. Thus, unnecessary disruptions should be avoided, such as ringing cell phones engagement in private conversations and other unrelated activities. Cell phones, media players, or any noisy devices should be turned off during a class. Texting, surfing the Internet, and posting to Facebook or Twitter during class are generally not permitted. Laptop use may be permitted if it is used for taking notes or conducting class activities. Students should check with the instructor about permissible devices in class. IUPUI nurtures and promotes “a campus climate that seeks, values, and cultivates diversity in all of its forms and that provides conditions necessary for all campus community members to feel welcomed, supported, included, and valued” (IUPUI Strategic Initiative 9). IUPUI prohibits “discrimination against anyone for reasons of race, color, religion, national origin, sex, sexual orientation, marital status, age, disability, or [veteran] status” (Office of Equal Opportunity). Profanity or derogatory comments about the instructor, fellow students, invited speakers or other classroom visitors, or any members of the campus community shall not be tolerated. A violation of this rule shall result in a warning and, if the offense continues, possible disciplinary action.
4. **Bringing children to class:** To ensure an effective learning environment, children are not permitted to attend class with their parents, guardians, or childcare providers.
5. **Course Evaluation Policy:** Course evaluations provide vital information for improving the quality of courses and programs. Students are required to complete one course and instructor evaluation for each section in which they are enrolled at the School of Informatics and Computing. This requirement has three exceptions: (a) The student has withdrawn from the course; (b) fewer than five students are enrolled in the section (in which case anonymity is impossible); and (c) the section is a laboratory that must be taken with a course having a different section number. Course evaluations are completed at <https://soic.iupui.edu/app/course-eval/>. Course evaluations are open from the eleventh week. Course evaluations are anonymous, which means that no one can view the name of the student completing the evaluation. In addition, no one can view the evaluation itself until after the instructor has submitted the final grades for the course. In small sections, demographic information should be left blank, if it could be used to identify the student.
6. **Communication:** The instructor should respond to emails within 48 hours, excluding weekends and holidays, and announce periods of extended absence in advance. The instructor should provide weekly office hours or accept appointments for face-to-face, telephone, or teleconferenced meetings.
7. **Email:** Indiana University uses your IU email account as an official means of communication, and students should check it daily for pertinent information. Although you may have your IU email forwarded to an outside email account, please email faculty and staff from your IU email account.
8. **Disabilities Policy:** In compliance with the Americans with Disabilities Act (ADA), all

qualified students enrolled in this course are entitled to reasonable accommodations. Please notify the instructor during the first week of class of accommodations needed for the course. Students requiring accommodations because of a disability must register with Adaptive Educational Services (AES) and complete the appropriate AES-issued before receiving accommodations. The AES office is located at UC 100, Taylor Hall (Email: aes@iupui.edu, Tel. 317 274-3241). Visit Adaptive Educational Services <http://aes.iupui.edu> for more information.

9. **Administrative Withdrawal:** A basic requirement of this course is that students participate in all class discussions and conscientiously complete all required course activities and/or assignments. If a student is unable to attend, participate in, or complete an assignment on time, it is the student's responsibility to inform the instructor. If a student misses more than half of the required activities within the first 25% of the course without contacting the instructor, the student may be administratively withdrawn from this course. Administrative withdrawal may have academic, financial, and financial aid implications. Administrative withdrawal will take place after the full refund period, and a student who has been administratively withdrawn from a course is ineligible for a tuition refund. Contact the instructor with questions concerning administrative withdrawal.

Emergency Preparedness: Safety on campus is everyone's responsibility. Know what to do in an emergency so that you can protect yourself and others. For specific information, visit the emergency management website. Emergency Preparedness Link <http://protect.iu.edu/emergency>

1. **Student Advocate:** The Student Advocate provides assistance to students with personal, financial, and academic issues. The Student Advocate Office is located in the Campus Center, Suite 350. The Student Advocate may also be contacted by phone at 317-274-4431 or by email at studvoc@iupui.edu. For more information visit <http://studentaffairs.iupui.edu/advocate>.
2. **Counseling and Psychological Services (CAPS):** Students seeking counseling or other psychological services should contact the CAPS office by phone at 274-2548 or email at capsindy@iupui.edu. For more information visit [Counseling and Psychological Services](http://life.iupui.edu/caps/) <http://life.iupui.edu/caps/>. information, visit the emergency management website. Emergency Preparedness Link
3. **Student Advocate:** The Student Advocate provides assistance to students with personal, financial, and academic issues. The Student Advocate Office is located in the Campus Center, Suite 350. The Student Advocate may also be contacted by phone at 317-274-4431 or by email at studvoc@iupui.edu. For more information visit Student Affairs Link
4. **Counseling and Psychological Services (CAPS):** Students seeking counseling or other psychological services should contact the CAPS office by phone at 274-2548 or email at capsindy@iupui.edu. For more information visit CAPS Link <http://life.iupui.edu/caps/>.

MISSION STATEMENT

The Mission of IUPUI is to provide for its constituents excellence in

- Teaching and Learning;
- Research, Scholarship, and Creative Activity; and

- Civic Engagement.

With each of these core activities characterized by

- Collaboration within and across disciplines and with the community;
- A commitment to ensuring diversity; and
- Pursuit of best practices.

IUPUI's mission is derived from and aligned with the principal components—Communities of Learning, Responsibilities of Excellence, Accountability and Best Practices—of Indiana University's Strategic Directions Charter.

STATEMENT OF VALUES

IUPUI values the commitment of students to learning; of faculty to the highest standards of teaching, scholarship, and service; and of staff to the highest standards of service. IUPUI recognizes students as partners in learning. IUPUI values the opportunities afforded by its location in Indiana's capital city and is committed to serving the needs of its community. Thus, IUPUI students, faculty, and staff are involved in the community, both to provide educational programs and patient care and to apply learning to community needs through service. As a leader in fostering collaborative relationships, IUPUI values collegiality, cooperation, creativity, innovation, and entrepreneurship as well as honesty, integrity, and support for open inquiry and dissemination of findings. IUPUI is committed to the personal and professional development of its students, faculty, and staff and to continuous improvement of its programs and service.