ISM 3113
Systems Analysis & Design
COURSE SYLLABUS

Semester: Spring 2023
Class Meeting Days: Mondays
Class Meeting Time: 6:30 – 9:15 pm
Class Meeting Location: CIS 3064
Instructor: Weimar Ardila Rueda
Office Location: TBA
Office Hours: by Appointment via MS Teams
Email: weimar@usf.edu

I. Course Description

This course will familiarize you with basic techniques for conducting and managing Systems Analysis and Design (SAD) activities. The course will explore various systems analysis and design approaches, implementation methods, and current analysis and design issues to give you the tools needed to analyze existing business problems and design creative and innovative information system solutions.

II. Course Prerequisites

ISM 3113 Systems Analysis and Design with a minimum grade of C.

III. Course Format

Class meetings will be delivered through in-person sessions. However, virtual meetings via MS Teams may be scheduled upon any contingency, and students will be notified with anticipation.

IV. Student Learning Outcomes

Upon completion of this course students should be able to:

- recognize a system development life cycle
- determine the requirements of an information system using various information gathering techniques
- conduct a feasibility study to assess the technical, economic, and organizational feasibility of an information system development project.
- create a Use Case to describe systems functionality
- describe system processes using Process Modeling
- model system data created or stored by an information system and how to manage that data for reporting and analytics
- recognize principles of user interface design
- describe how to manage implementation and programming processes

V. Course Objective

This course is designed for undergraduate information systems students, as well as other interested business students. Students will be provided with the skills and an understanding of the methodologies used in the analysis and design of information systems with an emphasis on providing a creative information system solution to a business problem or opportunity.

VI. Required Texts and/or Readings and Course Materials

- Dennis, A., Wixom, B. H., & Roth, R. M. (2008). *Systems analysis and design*. 6th Edition, Wiley.
  ISBN: 978-0-357-41974-8.

VII. Communication

Communications will be handled via email and Canvas messages.

VIII. Grading Scale

Total%	Grade	Total%	Grade
98 – 100%	A+	78 – 79	C+
92 – 97	A	72 – 77	C
90 – 91	A-	70 – 71	C-
88 – 89	B+	68 – 69	D+
82 – 87	B	62 – 67	D
80 – 81	B-	60 - 61	D-
		< 60	F

IX. Grade Categories and Weights

Graded Items	Percent of Final Grade
First Day Attendance	5%
Assignments	50%
Midterm Exam	20%
Final Exam	25%

Assignments

Homework assignments will allow students to improve their skills and reinforce the knowledge acquired through the class lectures. The main goal is that students implement their understanding of the concepts covered during the lecture. The tentative number of homework assignments is 5, but this number may vary depending on the course progress.

Exams

Please note exams will be delivered on the specified dates and times (in the below section). If you miss an exam, you will receive a zero on that exam – unless you have a documentable excuse such as a doctor's note. All other requirements of this course will be completed online.

X. Course Schedule

Week	Date	Chapter	SDLC	Topic
1	9-Jan	1	Planning	Introduction: (1) Systems Development Life Cycle (2) Project Selection and Management Tutorial: MS Visio & MS Project Setup
2	16-Jan			No class (Holiday)
3	23-Jan	2	Planning	(1) Project Management (PM) Tools (2) PM Practical Problems
4	30-Jan	2	Planning	In-class Assignment: Assignment 1
5	6-Feb	2	Planning	Feasibility Analysis
6	13-Feb	2	Planning	In-class Assignment: Assignment 2
7	20-Feb	4	Analysis	Use Cases UML Diagrams
8	27-Feb	1, 2, 4		Exam Review
9	6-Mar			**Exam 1:** Midterm
	13-Mar			**Spring Break**
10	20-Mar	9	Analysis	(1) Data Flow Diagrams (DFD) (2) Structure Diagrams (3) Assignment (3)
11	27-Mar	5	Analysis	(1) Data Modeling (2) Entity Relationship Diagrams (ERD)
12	3-Apr	5	Analysis	(1) Entity Relationship Diagrams (ERD): Practical Problems (2) Assignment 4
13	10-Apr	10	Design	(1) Data Storage Design (2) SQL introduction
14	17-Apr		Implementation	Assignment (5) - Study Case Pre-assignment report
15	24-Apr	5, 9, 10		Case Discussion Exam Review
16	1-May			**Exam 2:** Final - Comprehensive Time: 5:30 - 7:30 pm Date: 5/1

* Note: The Schedule is subject to revision

XI. Course Policies: Grades (include sections as applicable to your course)

WARNING: There is NO extra credit. There is NO rounding. What you get is what you get. You have all the assignments before you. There is no additional work available to you if you fail to complete the actual assignments.

The instructor will accommodate students who have to miss assignments or tests due to medical emergencies in the immediate family or job-related s situations. These are the only conditions under which accommodation will be considered in real-time during the semester. Should such situations arise, the student must provide necessary documentation before the missed deliverable can be rescheduled. Specifically, Bulls games are no grounds for make-ups.

Academic accommodations for disabilities in consultation with the Office of Students with Disabilities Services will be provided following university procedures.

Late submissions are not accepted and receives a zero grade.

XII. Course Policies: Technology and Media (include sections as applicable to your course)

Canvas: This course will be offered via USF's learning management system (LMS), Canvas. If you need help learning how to perform various tasks related to this course or other courses being offered in Canvas, please consult the Canvas help guides or investigate online training. You may also contact USF's IT department at (813) 974-1222 or help@usf.edu.

Recordings: Some lectures, content and class materials will be made available in a recorded format via Canvas. We may also record group sessions where student's voices and video will be included in class recordings. It is the student's responsibility to make sure the privacy of their surroundings and background is maintained.

Laptop Usage: This is a technology class and I encourage to use of computer technology for class related activities. Students are allowed and encouraged to use devices for recording class sessions for personal use.

Phone Usage: Please turn phones off and have them put away during any class related meetings or sessions.

XIII. Course Policies: Student Expectations

Title IX Policy:

Title IX provides federal protections for discrimination based on sex, which includes discrimination based on pregnancy, sexual harassment, and interpersonal violence. In an effort to provide support and equal access, **USF has designated all faculty (TA, Adjunct, etc.) as Responsible Employees, who are required to report any disclosures of sexual harassment, sexual violence, relationship violence or stalking.** The Title IX Office makes every effort, when safe to do so, to reach out and provide resources and accommodations, and to discuss possible options for resolution. Anyone wishing to make a Title IX report or seeking accommodations may do so online, in person, via phone, or email to the Title IX Office. For information about Title IX or for a full list of resources please visit: https://www.usf.edu/title-

ix/gethelp/resources.aspx. *If you are unsure what to do, please contact Victim Advocacy – a confidential resource that can review all your options – at 813-974-5756 or va@admin.usf.edu.*

Course Hero / Chegg Policy:

The USF Policy on Academic Integrity specifies that students may not use websites that enable cheating, such as by uploading or downloading material for this purpose. This does apply specifically to Chegg.com and CourseHero.com – almost any use of these websites (including uploading proprietary materials) constitutes a violation of the academic integrity policy.

Professionalism Policy:

Per university policy and classroom etiquette, mobile phones, iPods, etc. **must be silenced** during all classroom and lab lectures. Those not heeding this rule will be asked to leave the classroom/lab immediately so as to not disrupt the learning environment. Please arrive on time for all class meetings. Students who habitually disturb the class by talking, arriving late, etc., and have been warned may suffer a reduction in their final class grade.

Students are expected to adhere to the overall class calendar and to complete work or assignments by the due dates posted in Canvas. It will be difficult to perform at a high level if you do not regularly attend discussion group meetings and actively participate. If you need to miss a group meeting, please send a communication to you team with a copy to the professor in advance. If you will be late with a submission, it's always good to let your professor know in advance.

Netiquette Guidelines

1. Act professionally in the way you communicate. Treat your instructors and peers with respect, the same way you would do in a face-to-face environment. Respect other people's ideas and be constructive when explaining your views about points you may not agree with.
2. Be sensitive. Be respectful and sensitive when sharing your ideas and opinions. There will be people in your class with different linguistic backgrounds, political and religious beliefs or other general differences.
3. Proofread and check spelling. Doing this before sending an email or posting a thread on a discussion board will allow you to make sure your message is clear and thoughtful. Avoid the use of all capital letters, it can be perceived as if you are shouting, and it is more difficult to read.
4. Keep your communications focused and stay on topic. Complete your ideas before changing the subject. By keeping the message on focus you allow the readers to easily get your idea or answers they are looking for.
5. Be clear with your message. Avoid using humor or sarcasm. Since people can't see your expressions or hear your tone of voice, meaning can be misinterpreted.

XIV. Learning Support and Campus Offices

Academic Accommodations

Students with disabilities are responsible for registering with Student Accessibility Services (SAS) in order to receive academic accommodations. For additional information about academic accommodations and resources, you can visit the SAS website.
SAS website for the Tampa and Sarasota-Manatee campuses.
SAS website for the St. Pete campus.

Academic Support Services

The USF Office of Student Success coordinates and promotes university-wide efforts to enhance undergraduate and graduate student success. For a comprehensive list of academic support services available to all USF students, please visit the Office of Student Success website.

Canvas Technical Support

If you have technical difficulties in Canvas, you can find access to the Canvas guides and video resources in the "Canvas Help" page on the homepage of your Canvas course. You can also contact the help desk by calling 813-974-1222 in Tampa or emailing help@usf.edu.

IT website for the Tampa campus.
IT website for the St. Pete campus.
IT website for the Sarasota-Manatee campus.

Center for Victim Advocacy

The Center for Victim Advocacy empowers survivors of crime, violence, or abuse by promoting the restoration of decision making, by advocating for their rights, and by offering support and resources. Contact information is available online.

Counseling Center

The Counseling Center promotes the wellbeing of the campus community by providing culturally sensitive counseling, consultation, prevention, and training that enhances student academic and personal success. Contact information is available online.

Counseling Center website for the Tampa campus.
Counseling Center website for the St. Pete campus.
Counseling Center website for the Sarasota-Manatee campus.

XV. Important Dates to Remember

For important USF dates, see the Academic Calendar at http://www.usf.edu/registrar/calendars/