COURSE NUMBER: ISTM 4120

COURSE TITLE: Business Systems Development

COURSE DESCRIPTION: Information systems are at the core of all businesses and add value in a variety of ways. The objective of this course is to provide students with knowledge of techniques, methodologies, and tools used in the development of software and information systems. With information system tied to all major business processes, a streamlined systems development process is critical in making any systems implementation successful. This course serves to provide an introduction to the systems development process using both structured and agile methodologies, and computer-aided software engineering (CASE) tools.

PREREQUISITES: CS 1111 or ISTM 3119 or permission of instructor

CONTACT HOURS: 3 Credit undergraduate course – 15 weeks
Students will spend 2.5 hours per week in class. Out of class, they will spend an average (per week) of 1.5 hours reading and 4.5 hours working on computer assignments and projects. Over the course of the semester, students will spend 35 hours in instructional time and 85 hours on their assignments and preparing for class. Instructional time includes discussions and hands-on activities in class.

PROFESSOR: Vijay Padmanabhan
Department of Information Systems and Technology Management (ISTM)
Office: Funger Hall 515 J
Office Hours: Wednesdays 6:30 to 7:30 PM or by appointment
Phone: 571-553-4157
E-mail: vijayp@gwu.edu

Teaching Assistant: Anvita Jaipuria
E-mail: anvita90@gwmail.gwu.edu

LEARNING OBJECTIVES: Upon successfully completing this course, students will be able to:
1. Define and align system development methodologies with real world systems implementations, understanding which methodologies are applicable to various system types and environments.
2. Learn and apply the structured systems approach concepts to requirements gathering, analysis, design, and transition activities.
3. Understand and personally demonstrate the role of the systems analyst.
4. Understand current issues and future trends of system development and supporting technologies.

READINGS & MATERIALS:
Textbook:
SYSTEMS ANALYSIS AND DESIGN, 9TH EDITION KENNETH E. KENDALL, JULIE E. KENDALL

Supplemental Material:
Lecture slides and handouts distributed by the instructor. These will be made available exclusively on Blackboard.

Required Software:
Lucid Chart – The web based diagramming tool is free for users from education institutions. Please visit https://www.lucidchart.com/pages/education/students for more details
or
Microsoft Visio - Visio is available only on a few labs on campus. Copies of all software will be available to students for download—for educational use only—from MSDNAA.

ASSIGNMENTS:
Several in-class and take-home assignments will be given throughout the semester. They are INDIVIDUAL assignments and must be completed INDEPENDENTLY to receive full credit, unless otherwise specified. Discussions among students about the assignments are allowed. However, copied work is unacceptable and will be turned into the GW Office of Academic Integrity. If you have any doubt, ask the instructor. All assignments, unless otherwise stated, should be submitted electronically on Blackboard. In-class assignments and activities cannot be made up – they are activities designed for in-class interaction with other students and the professor. If you miss an in-class assignment due to illness, please provide a signed doctor’s note within one week of the absence. Assignment grades can only be appealed within one week from the day the assignment is returned. No appeals will be accepted after that period. Failure to properly submit an assignment through Blackboard is the student’s responsibility. Any assignments not submitted by the deadline will not be accepted.

GROUP PROJECT:
The course includes a group semester-long project focused on applying system development techniques to a real world system. Details, including group assignments, will be shared during the fifth lecture.
GRADING:
- Classroom Quiz (15%)
- Assignments (25%)
- Final exam (15%)
- Group Project (25%)
- Class participation/attendance (20%)

ACADEMIC INTEGRITY:
The code of academic integrity applies to all courses in the George Washington School of Business. Please become familiar with the code. All students are expected to maintain the highest level of academic integrity throughout the course of the semester. Please note that acts of academic dishonesty during the course will be prosecuted and harsh penalties may be sought for such acts. Students are responsible for knowing what acts constitute academic dishonesty. The code may be found at: http://www.gwu.edu/~ntegrity/code.html

UNIVERSITY POLICIES:

Religious Accommodation
Students should notify faculty during the first week of the semester of their intention to be absent from class on their day(s) of religious observance. Faculty should extend to these students the courtesy of absence without penalty on such occasions, including permission to make up examinations. Faculty who intend to observe a religious holiday should arrange at the beginning of the semester to reschedule missed classes or to make other provisions for their course-related activities.

Disability Support Services (DSS)
Any student who may need an accommodation based on the potential impact of a disability should contact the Disability Support Services office at 202-994-8250 in the Rome Hall, Suite 102, to establish eligibility and to coordinate reasonable accommodations. For additional information please refer to: gwired.gwu.edu/dss/

Mental Health Services 202-994-5300

The University’s Mental Health Services offers 24/7 assistance and referral to address students’ personal, social, career, and study skills problems. Services for students include: crisis and emergency mental health consultations confidential assessment, counseling services (individual and small group), and referrals. counselingcenter.gwu.edu/