

ITACS 5203: Systems and Infrastructure Lifecycle Management 1

Spring 2018 – BNAI

Instructor:

Brian C. Green
Adjunct Professor

C +1 856 283 2136
isprof@temple.edu (tug88676)

1810 North 13th Street
Speakman Hall, Room 207H
Philadelphia, PA 19122

Class Location and Time:

Online: **March 5-16, 2018 (2 weeks)**
In-Class: **March 19-23, 9AM-12PM & 2PM-5PM**

Course Web Site:
<http://community.mis.temple.edu/mis5203sec951sp2018>

Course Description:

In this course you will be introduced to how systems are acquired, developed and implemented. At the end of the course you will be able to understand and provide assurance that the practices for the acquisition, development, testing and implementation of information systems meet the enterprise's strategies and objectives.

Course Objectives:

Students will learn how an organization evaluates, develops, implements, maintains and disposes its IT systems and related components. S/he must be able to identify which elements may represent the greatest risk and which controls are most effective at mitigating them. Key objectives are as follows:

1. Evaluate the business case for the proposed investments in information systems acquisition, development, maintenance and subsequent retirement to determine whether it meets business objectives.
2. Evaluate IT supplier selection and contract management processes service levels and requisite controls are met.
3. Evaluate the project management framework and controls to determine whether business requirements are achieved in a cost-effective manner while managing risks to the organization.
4. Conduct reviews to determine whether a project is progressing in accordance with project plans, is adequately supported by documentation, and has timely and accurate status reporting.
5. Evaluate controls for information systems during the requirements, acquisition, development and testing standards, procedures and applicable external requirements.
6. Evaluate the readiness of information systems for implementation and migration into production to determine whether project deliverables, controls and the requirements are met.
7. Conduct post-implementation reviews of systems to determine whether project deliverables, controls and the requirements are met.
8. Assess software development projects for common issues affecting quality and secure software development.
9. Evaluate a systems or software project's design and development plans to understand the system design.

Required Text & Readings:

- Valacich, Joseph S., and Joey F. George. Modern Systems Analysis and Design, 8th Edition. Pearson Education Limited, 2017. ISBN-13: 978-0-13-420492-5
- ISACA: Certified Information Systems Auditor, CISA Review Manual, 26th Edition 2017, ISBN: 978-1-60420-200-7

Grading Criteria

Item	Evaluation
Practical Assignments	20%
Written Assignments	28%
Quizzes	18%
Final Exam	34%

Evaluation Criteria

Criteria	Grade
The assignment consistently exceeds expectations. It demonstrates originality of thought and creativity throughout. Beyond completing all the required elements, new concepts and ideas are detailed that transcend general discussions along similar topic areas. There are no mechanical, grammatical, or organization issues that detract from the ideas.	A- or A
The assignment consistently meets expectations. It contains all the information prescribed for the assignment and demonstrates a command of the subject matter. There is sufficient detail to cover the subject completely but not too much as to be distracting. There may be some procedural issues, such as grammar or organizational challenges, but these do not significantly detract from the intended assignment goals.	B-, B, B+
The assignment fails to consistently meet expectations. That is, the assignment is complete but contains problems that detract from the intended goals. These issues may be relating to content detail, be grammatical, or be a general lack of clarity. Other problems might include not fully following assignment directions.	C-, C, C+
The assignment consistently fails to meet expectations. It is incomplete or in some other way consistently fails to demonstrate a firm grasp of the assigned material.	Below C-

Late Assignment Policy

An assignment is considered late if it is turned in after the assignment deadlines. No late assignments will be accepted without penalty unless arrangements for validated unusual or unforeseen situations have been made.

- The exercise assignments will be assessed a 20% penalty each day they are late. No credit is given for assignments turned in over five calendar days past the due date.
- You must submit all assignments, even if no credit is given. If you skip an assignment, an additional 10 points will be subtracted from your final grade in the course.
- Plan ahead and backup your work. Equipment failure is not an acceptable reason for turning in an assignment late.

Citation Guidelines

If you use text, figures, and data in reports that were created by others you must identify the source and clearly differentiate your work from the material that you are referencing. If you fail to do so you are plagiarizing. There are

many different acceptable formats that you can use to cite the work of others (see some of the resources below). The formats are not as important as the intent. You must clearly show the reader what is your work and what is a reference to someone else's work.

Plagiarism and Academic Dishonesty

All work done for this course: papers, examinations, homework exercises, blog posts, laboratory reports, oral presentations — is expected to be the individual effort of the student presenting the work.

Plagiarism and academic dishonesty can take many forms. The most obvious is copying from another student's exam, but the following are also forms of this:

- Copying material directly, word-for-word, from a source (including the Internet)
- Using material from a source without a proper citation
- Turning in an assignment from a previous semester as if it were your own
- Having someone else complete your homework or project and submitting it as if it were your own
- Using material from another student's assignment in your own assignment

Plagiarism and cheating are serious offenses, and behavior like this will not be tolerated in this class. In cases of cheating, both parties will be held equally responsible, i.e. both the student who shares the work and the student who copies the work. Penalties for such actions are given at my discretion, and can range from a failing grade for the individual assignment, to a failing grade for the entire course, to expulsion from the program.

Student and Faculty Academic Rights and Responsibilities

The University has adopted a policy on Student and Faculty Academic Rights and Responsibilities (Policy # 03.70.02) which can be accessed through the following link:

http://policies.temple.edu/getdoc.asp?policy_no=03.70.02

Course Schedule:

- Readings
 - **MSAD:** Valacich, Joseph S., and Joey F. George. *Modern Systems Analysis and Design*. Pearson Education Limited, 2017. ISBN-13: 978-0-13-420492-5
 - **CISA:** ISACA: Certified Information Systems Auditor, *CISA Review Manual, 26th Edition*, ISBN: 978-1-60420-200-7
- Assignments
 - **PA:** Practical Assignment (Work in groups; time given in class)
 - **WA:** Written Assignment (Completed Independently)

	Topic	Reading	Assignments
Online Coursework: Module One	Introduction to Development Lifecycle	MSAD: Ch.1 MSAD: Ch.2 CISA: 3.5 CISA: 3.5.1 CISA: 3.5.2 CISA: 3.8 CISA: 3.11	Video: Instructor Introduction Video: Intro to Systems Lifecycle Video: Alternative Methodologies Video: Sources of Software WA-1.1 (2%)
Online Coursework: Module Two	Project Management, Planning and Selection	MSAD: Ch.3 MSAD: Ap.3 MSAD: Ch.5 MSAD: Ch.4 CISA: 3.3 CISA: 3.4 CISA: 3.5.1 CISA 2.4	Video: Intro to Project Management, Part One Video: Intro to Project Management, Part Two Video: Intro to Project Management: Demo Video: Project Selection Video: IS Strategy Video: Initiating Development Lifecycle Video: Feasibility Analysis Video: Baseline Project Plan Video: Feasibility Demonstration PA-2.1 (2%) WA-2.1 (2%) PA-3.1 (2%) WA-3.1 (2%) WA-4.1 (2%)
Online Assessment			Quiz 1 (6%)
Day 1 – Morning	Requirements Analysis: Structured and Object Oriented	MSAD: Ch.6 MSAD: Ap.7a CISA: 3.12 CISA: 3.5.2	

Day 1 – Afternoon			PA-5.1 (2%) WA-5.1 (2%) PA-7.1 (2%) WA-7.1 (2%)
Day 2 – Morning	Structured Process Analysis	MSAD: Ch.7 CISA: 3.5.2	PA-6.1 (2%) WA-6.1 (2%)
Day 2 – Afternoon	Data Analysis: Structured and Object Oriented	MSAD: Ch.8 MSAD: Ap.8	
Online Assessment			Quiz 2 (6%)
Day 3 – Morning			PA-8.1 (2%) WA-8.1 (2%) PA-9.1 (2%) WA-9.1 (2%)
Day 3 – Afternoon	Object Oriented Process Analysis	MSAD: Ap.7b MSAD: Ap.7c MSAD: Ap.7d	
Day 4 – Morning	Design: Database & Persistence	MSAD: Ch.9	PA-10.1 (2%) WA-10.1 (2%)
Day 4 – Afternoon	Design: Human Factors	MSAD: Ch.10 MSAD: Ch.11 CISA:3.6 CISA: 3.7 CISA: 3.7.1 CISA: 3.7.16 CISA: 3.9 CISA: 3.14	WA-12.1 (2%) WA-12.2 (2%)
Online Assessment			Quiz 3 (6%)
Day 5 – Morning	Implementation & Distributed Systems	MSAD: Ch.12 CISA: 3.5.2	
Day 5 – Afternoon			PA-13.1 (2%) WA-13.1 (2%) PA-14.1 (2%) WA-14.1 (2%)
Online Assessment			Final Exam (34%)