

# CIST 2921 - IT Analysis, Design, and Project Management ( version 201003L )

<b>Course Title</b>	<b>Course Development</b>	<b>Learning Support</b>
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IT Analysis, Design, and Project Management	Standard	No
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## Course Description

IT Analysis, Design, and Project Management will provides a review and application of systems life cycle development methodologies and project management. Topics include: Systems planning, systems analysis, systems design, systems implementation, evaluation, and project management.

## Pre-requisites

Pre-requisites: None

## Co-requisites

Co-requisites: None

## Course Length

	Minutes	Contact Hour	Semester Credit	WLU
<b>Lecture:</b>	<b>1500</b>	<b>30</b>		
<b>Lab 2:</b>	<b>1500</b>	<b>30</b>		
<b>Lab 3:</b>	<b>2250</b>	<b>45</b>		
<b>Total:</b>	<b>5250</b>	<b>105</b>	<b>4</b>	
<b>Semester Credit Hours:</b>			<b>4</b>	<b>161.25</b>
<b>Breakout Detail of Lab 3</b>				
<b>Practicum/Internship</b>	<b>0</b>	<b>0</b>		
<b>Clinical</b>	<b>0</b>	<b>0</b>		

## Competencies & Outcomes

Order	Description	Lecture	Lab 2	Lab 3	Total Min	Credit Hrs	Pract Intern	Clinical
1	<b>Systems Planning</b>	350	350	525	1225	1	0	0
Order	Description						Learning Domain	Level of Learning
1	Identify the principal characteristics and components of businesses as information systems.						Cognitive	Knowledge
2	Describe the general life cycle and its application to the management of business information system projects.						Cognitive	Comprehension
3	Identify the different information levels of a typical organization.						Cognitive	Knowledge
4	Utilize the different styles and types of business forms.						Cognitive	Application
5	Show the use of tables as analytic tools.						Cognitive	Application
6	Develop decision trees, flowcharts, and system charts to demonstrate their importance in understanding the business system and flow of information.						Cognitive	Application
2	<b>Systems Analysis</b>	350	350	525	1225	1	0	0

Order	Description	Learning Domain	Level of Learning
1	Describe and explain the importance of the initial investigation, fact-finding techniques, and fact analysis techniques.	Cognitive	Comprehension
2	Use the steps from project initiation through the initial investigation.	Cognitive	Application
3	Describe and explain each of the steps in a feasibility study.	Cognitive	Comprehension
4	Describe the methods used to choose the best system available.	Cognitive	Comprehension
5	Describe typical system requirements (i.e., inputs, processes, and outputs).	Cognitive	Comprehension
6	Describe when and how to use data collection techniques.	Cognitive	Comprehension
7	Prepare a data collection activity.	Cognitive	Application

3 **Systems Design** 350 400 600 1350 1 0 0

Order	Description	Learning Domain	Level of Learning
1	Describe the advantages of structured and object oriented design and development.	Cognitive	Comprehension
2	Prepare , read, and explain current state of practice standard design diagrams.	Cognitive	Application
3	Demonstrate correct design principles for data entry, storage, and retrieval.	Cognitive	Application
4	Design state of practice storage solutions for an application.	Cognitive	Synthesis

4 **Implementation, Evaluation, and Project Management** 450 400 600 1450 1 0 0

Order	Description	Learning Domain	Level of Learning
1	Demonstrate an understanding of and implement the use of project management used for timely project completion.	Psychomotor	Guided Response
2	Demonstrate an understanding of and develop the importance of communications and presentation skills.	Affective	Valuing
3	Identify , describe, and explain various programming time estimation methods.	Cognitive	Knowledge
4	Develop the major chart types used for project management.	Cognitive	Application
5	Identify , describe, and explain planning aids.	Cognitive	Knowledge
6	Classify different types of costs.	Cognitive	Comprehension
7	Identify and explain common cost-benefit analysis.	Cognitive	Knowledge
8	Develop programs. Prepare test data and documentation.	Cognitive	Application
9	Describe the major implementation activities and responsibilities.	Cognitive	Knowledge
10	Explain system changeover methods.	Cognitive	Comprehension
11	Explain the purpose of a post-implementation evaluation.	Cognitive	Comprehension
12	Describe a standard maintenance procedure.	Cognitive	Knowledge
13	Identify signs of system obsolescence.	Cognitive	Knowledge

Lecture Lab 2 Lab 3 Total Min Cred Hrs Pract Intern Clinical

1500 1500 2250 5250 4 0 0

Competency Totals: