



# Syllabus



## Syllabus

### CITM-501: Information System Infrastructure

#### Course Description

An organization's technology is made up of many components that support the use of electronic data. This course will provide an overview of the hardware, software, and supporting infrastructures that make up the business computing environment. Device types and systems that make this technological ecosystem possible, including operating systems, application software, networking, mobility, and web technologies, including cloud computing, will be addressed. The course will emphasize the overarching architectural components that work together to provide a complete technology solution. Biblical and ethical principles will be integrated into the study of the information systems infrastructures.

Credit Hours: 3

Prerequisite Courses: None

#### Course Outcomes

Upon successful completion of this course, students should be able to:

1. Describe the components that make up a complex organizational computing environment.
2. Discuss the integration of components that work together to allow the user community to work with organizational data.
3. Analyze the interconnectivity of systems and devices to communicate data throughout the organization and across the internet.
4. Evaluate the various components necessary to the functional design for an operational technology system.
5. Integrate biblical and ethical principles into the business computing environment.

## Course Topics

- Enterprise information systems infrastructures and organizational data
- Current trends in cloud computing, artificial intelligence, and robotics
- Network and telecommunications, including mobile computing and communications
- Ethical use of technology resources in supporting business strategies

## Course Resources

Stair, R. M., & Reynolds, G. W. (2018). *Principles of information systems* (13th ed.). Cengage.

## IWU Diversity Statement

IWU, in covenant with God's reconciling work and in accordance with the Biblical principles of our historic Wesleyan tradition, commits to build a community that reflects Kingdom diversity.

We will foster an intentional environment for living, teaching, and learning, which exhibits honor, respect, and dignity. Acknowledging visible or invisible differences, our community authentically values each member's earthly and eternal worth. We refute ignorance and isolation and embrace deliberate and courageous engagement that exhibits Christ's commandment to love all humankind. (2016)

## Grading Scale

Grade	Quality Points Per Credit	Percentage	Score
<b>A</b>	4.0	95%–100%	950–1,000
<b>A-</b>	3.7	92%–94.9%	920–949
<b>B+</b>	3.3	89%–91.9%	890–919
<b>B</b>	3.0	85%–88.9%	850–889
<b>B-</b>	2.7	82%–84.9%	820–849
<b>C+</b>	2.3	79%–81.9%	790–819

<b>C</b>	2.0	75%–78.9%	750–789
<b>C-</b>	1.7	72%–74.9%	720–749
<b>D+</b>	1.3	69%–71.9%	690–719
<b>D</b>	1.0	65%–68.9%	650–689
<b>F</b>	0.0	0%–64.9%	0–649

**Note:** In graduate-level courses, a grade of C- or below will require the course to be repeated.

## Grading Policies

Your grading policy for your course is dependent on your school and program. Your grading policies can be found in the [IWU Catalog](#).

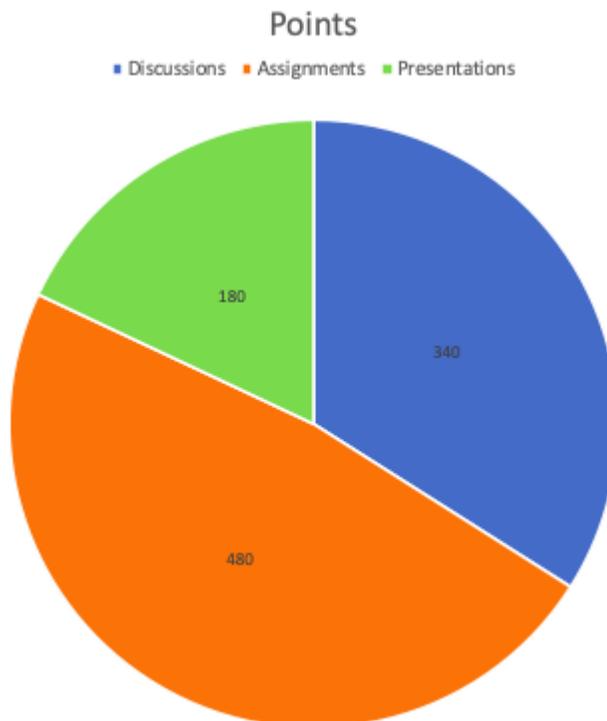
## Letter Grade Equivalencies

Grade	Quality Points Per Credit
<b>A</b>	Clearly stands out as excellent performance. Has unusually sharp insights into material and initiates thoughtful questions. Sees many sides of an issue. Articulates well and writes logically and clearly. Integrates ideas previously learned from this and other disciplines. Anticipates next steps in progression of ideas. Example "A" work should be of such nature that it could be put on reserve for all cohort members to review and emulate. The "A" cohort member is, in fact, an example for others to follow.
<b>B</b>	Demonstrates a solid comprehension of the subject matter and always accomplishes all course requirements. Serves as an active participant and listener. Communicates orally and in writing at an acceptable level for the degree program. Work shows intuition and creativity. Example "B" work indicates good quality of performance and is given in recognition for solid work; a "B" should be considered a good grade and awarded to those who submit assignments of quality less than the exemplary work described above.

<b>C</b>	Quality and quantity of work in and out of class is average. Has marginal comprehension, communication skills, or initiative. Requirements of the assignments are addressed at least minimally.
<b>D</b>	Quality and quantity of work is below average. Has minimal comprehension, communication skills, or initiative. Requirements of the assignments are addressed at below acceptable levels.
<b>F</b>	Quality and quantity of work is unacceptable and does not qualify the student to progress to a more advanced level of work.

**Note:** In graduate-level courses, a grade of C- or below will require the course to be repeated.

## Grade Summary



## Workshop Outlines

### Workshop One Outcomes

Upon successful completion of this workshop, you will be able to:

1. Integrate biblical and ethical principles into the business computing environment.
2. Describe the components that make up a complex organizational computing environment.
3. Discuss the integration of components that work together to allow the user community to work with organizational data.

## Workshop One Outline

Title	Due Dates	Time	Points
<b>1.1 Assignment: Devotional</b>	Due by the end of the workshop.	1 hour	10
<b>1.2 Discussion: Textbook Reading</b>	Due by the end of the workshop.	7 hours	5
<b>1.3 Discussion: Introduce Yourself</b>	Due by the end of the workshop.	2 hours	10
<b>1.4 Discussion: Enterprise Information System</b>	Initial post due by the fourth day of the workshop; responses due by the end of the workshop.	3.5 hours	50
<b>Totals</b>		<b>13.5 hours*</b>	<b>75</b>

\*These times are only estimates. Actual completion times will vary.

## Workshop Two Outcomes

Upon successful completion of this workshop, you will be able to:

1. Integrate biblical and ethical principles into the business computing environment.
2. Describe the components that make up a complex organizational computing environment.
3. Discuss the integration of components that work together to allow the user community to work with organizational data.
4. Analyze the interconnectivity of systems and devices to communicate data throughout the organization and across the internet.
5. Evaluate the various components necessary that develop into a functional design.

## Workshop Two Outline

Title	Due Dates	Time	Points
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<b>2.1 Assignment: Devotional</b>	Due by the end of the workshop.	1 hour	10
<b>2.2 Discussion: Textbook Reading</b>	Due by the end of the workshop.	8 hours	5
<b>2.3 Discussion: Information System Infrastructure</b>	Initial post due by the fourth day of the workshop; responses due by the end of the workshop.	3.5 hours	50
<b>2.4 Assignment: Research Paper (Phase 1 of Final Project)</b>	Due by the end of the workshop.	6 hours	90
<b>Totals</b>		<b>18.5 hours*</b>	<b>155</b>

\*These times are only estimates. Actual completion times will vary.

## Workshop Three Outcomes

Upon successful completion of this workshop, you will be able to:

1. Integrate biblical and ethical principles into the business computing environment.
2. Describe the components that make up a complex organizational computing environment.
3. Discuss the integration of components that work together to allow the user community to work with organizational data.
4. Analyze the interconnectivity of systems and devices to communicate data throughout the organization and across the internet.

## Workshop Three Outline

Title	Due Dates	Time	Points
<b>3.1 Assignment: Devotional</b>	Due by the end of the workshop.	1 hour	10
<b>3.2 Discussion: Textbook Reading</b>	Due by the end of the workshop.	8 hours	5
<b>3.3 Discussion: Data</b>	Initial post due by the fourth day of the workshop; responses due by the end of the workshop.	3.5 hours	50
<b>Totals</b>		<b>12.5 hours*</b>	<b>65</b>

\*These times are only estimates. Actual completion times will vary.

## Workshop Four Outcomes

Upon successful completion of this workshop, you will be able to:

1. Integrate biblical and ethical principles into the business computing environment.
2. Describe the components that make up a complex organizational computing environment.
3. Discuss the integration of components that work together to allow the user community to work with organizational data.
4. Analyze the interconnectivity of systems and devices to communicate data throughout the organization and across the internet.
5. Evaluate the various components necessary that develop into a functional design.

## Workshop Four Outline

Title	Due Dates	Time	Points
<b>4.1 Assignment: Devotional</b>	Due by the end of the workshop.	1 hour	10
<b>4.2 Discussion: Textbook Reading</b>	Due by the end of the workshop.	7 hours	5
<b>4.3 Discussion: E-Commerce and M-Commerce</b>	Initial post due by the fourth day of the workshop; responses due by the end of the workshop.	3.5 hours	50
<b>4.4 Assignment: Research Paper (Phase 2 of Final Project)</b>	Due by the end of the workshop.	4 hours	50
<b>Totals</b>		<b>15.5 hours*</b>	<b>115</b>

\*These times are only estimates. Actual completion times will vary.

## Workshop Five Outcomes

Upon successful completion of this workshop, you will be able to:

1. Integrate biblical and ethical principles into the business computing environment.
2. Analyze the interconnectivity of systems and devices to communicate data throughout the organization and across the internet.
3. Describe the components that make up a complex organizational computing environment.

3. Describe the components that make up a complex organizational computing environment.
4. Discuss the integration of components that work together to allow the user community to work with organizational data.
5. Evaluate the various components necessary that develop into a functional design.

## Workshop Five Outline

Title	Due Dates	Time	Points
<b>5.1 Assignment: Devotional</b>	Due by the end of the workshop.	1 hour	10
<b>5.2 Discussion: Textbook Reading</b>	Due by the end of the workshop.	6 hours	5
<b>5.3 Discussion: Business Intelligence</b>	Initial post due by the fourth day of the workshop; responses due by the end of the workshop.	3.5 hours	50
<b>5.4 Presentation: Sales Simulation</b>	Due by the end of the workshop.	6 hours	90
<b>Totals</b>		<b>16.5 hours*</b>	<b>155</b>

\*These times are only estimates. Actual completion times will vary.

## Workshop Six Outcomes

Upon successful completion of this workshop, you will be able to:

1. Describe the components that make up a complex organizational computing environment.
2. Discuss the integration of components that work together to allow the user community to work with organizational data.
3. Analyze the interconnectivity of systems and devices to communicate data throughout the organization and across the internet.
4. Evaluate the various components necessary that develop into a functional design.
5. Integrate biblical and ethical principles into the business computing environment.

## Workshop Six Outline

Title	Due Dates	Time	Points
<b>6.1 Assignment:</b>	Due by the end of the	1 hour	10

<b>Devotional</b>	workshop.		
<b>6.2 Discussion: Textbook Reading</b>	Due by the end of the workshop.	8 hours	5
<b>6.3 Discussion: Analyzing Information System Infrastructure</b>	Initial post due by the fourth day of the workshop; responses due by the end of the workshop.	3.5 hours	50
<b>6.4 Presentation: Executive Summary</b>	Due by the end of the workshop.	4 hours	90
<b>6.5 Assignment: Final Paper (Phase 3 of Final Project)</b>	Due by the end of the workshop.	20 hours	280
<b>End of Course Survey</b>	Due by the end of the workshop.	.5 hour	10 Extra Credit
<b>Totals</b>		<b>37 hours*</b>	<b>435</b>

\*These times are only estimates. Actual completion times will vary.

## Outline Totals

Total Time	Total Points
<b>113.5 hours*</b>	<b>1,000</b>

\* These timings are based on estimations of average times to complete each activity. Actual activity completion times will vary.

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Activity Details

Completion Summary

Task: View this topic

