

Valparaiso University
IT 510 STEM
Course Information & Syllabus
Introduction to Information Technology
Summer 1 - 2022

Instructor: Robert J. Wichlinski, Robert.wichlinski@valpo.edu

Class Schedule: May 17-June 24, 2022

Class Location: This is an on-line asynchronous course.

Course Performance Assessment: Final day of scheduled classes.

Office Hours: By appointment or teleconference

Office: Meier Hall, Room 145D

Office Phone: 219-464-5847

Mobile Phone: 219-712-6000 (text only please)

Required Textbook:

Understanding Computers: Today and Tomorrow, Comprehensive
Deborah Morley, Charles S. Parker
16th Edition (earlier editions are *not* acceptable)

Technology: Blackboard. Gmail (i.e. Valpo email). www.youtube.com & www.pbs.org web sites.

Course material: Usually but not exclusively material will be posted on Blackboard.valpo.edu.

Course Description: This course is designed to introduce the scholar to the fundamental concepts of Information Technology. *No prior experience in information technology is required, presumed or necessary to succeed in this course.*

Disability Support: As part of its mission for its students, Valparaiso University has developed a nondiscrimination policy which identifies its intention to provide a safe and tolerant environment for all, including those with disabilities. Please contact Christina Hearne, Director of Accommodation & Support Services, at 219.464.5206 (christina.hearne@valpo.edu), if you believe you have a disability that might require a reasonable accommodation in order for you to perform as expected in this class. The office will work with you and me directly to make sure you receive any reasonable accommodation needed as the result of a disability. More information is on the Disability Support Services website at <http://www.valpo.edu/disabilityss/>

Class cancellation and other notices: If for some reason an assignment is cancelled or a deadline is extended, I will both email and post to the course website information. Please be sure to check your email at least daily.

Objectives for this course:

1. Describe the components of IT systems and their interrelationships.
2. Describe how complexity occurs in IT.
3. Recognize that an IT professional must know how to manage complexity.
4. List examples of tools and methods used in IT for managing complexity.
5. Describe the role of the IT professional as the user advocate.
6. Explain why life-long learning and continued professional development is critical for an IT professional.
7. Explain why adaptability and interpersonal skills are important to an IT professional.
8. Distinguish between data and information, and describe the interrelationship.
9. Describe the importance of data and information in IT.
10. Explain why the mastery of information and communication technologies is important to an IT professional.
11. Explain why the IAS perspective needs to pervade all aspects of IT.
12. Describe the elements of a feasible IT application
13. Identify the extend and activities involved in an IT application
14. Understand the requirements of the business processes
15. Outline the project management processes
16. List the integration processes
17. Outline the history of computing technology.
- 18.) Describe significant impacts of computing on society.
- 19.) Describe significant changes in human-computer interaction.
- 20.) Outline the history of the Internet.
- 21.) Define "Information Technology".
- 22.) Describe the relationship between IT and other computing disciplines.
- 23.) Describe the relationship between IT and non-computing disciplines.
- 24.) Explain why mathematics and statistics are important in IT.
- 25.) Describe the application of IT in non-computing disciplines.
- 26.) Describe how IT has impacted almost all aspects of modern living.
- 27.) Describe ways and extends in which IT has changed the interaction and communication in our society.
- 28.) Describe how IT has impacted the globalization of world economy, culture, political systems, health, security, warfare, etc.

Honor Code:

You must do your own work. Plagiarism will not be tolerated and when/if detected in the authorship of your assignments will be graded an F with ZERO (0) credit awarded for the assignment.

Valparaiso University operates under a student initiated Honor Code. The Honor Code is an integral part of VU and permits students to do their academic work in an atmosphere of responsible freedom. The Honor Code is based on the highest principles of Christian ethics and morality and presumes every student is willing to maintain honesty in all academic work, as well as other phases of university living. Students are required to sign the pledge, indicating that they have submitted honest work and have not allowed the dishonesty of others to erode the integrity of the Honor System:

I have neither given nor received nor have I tolerated others' used of unauthorized aid.

The Honor Code applies to all students registered for academic credit at Valparaiso University. Students have the responsibility for not using, giving, or tolerating unauthorized aid. When the definition of unauthorized aid is in question, students should ask the instructor to interpret the application of the Honor Code. In case of further doubt, students share the responsibility of clarifying the definition of unauthorized aid.

Grading:

- Seven (7) 25 question written assignments each receiving one (1) point (one at the conclusion of each chapter).
- Seven (7) single page written reflections each receiving one (1) point (one following each video assignment).
- One (1) written final performance assessment totaling six (6) points.

The following grading scale will be used to calculate a final grade in the course predicated on a total of twenty (20) possible points:

19/20 points = A

18 points = A-

17 points = B+

16 points = B

15 points = B-

14 points = C+

Attendance & Participation: You are expected to engage in this course through the timely completion of course assignments.

This syllabus may be adjusted, amended or revised through the administration of the course as required by the Instructor at her/his discretion.