## **COURSE SYLLABUS**



# **Computer Information Systems**

Course code: CIS 161/7 Semester and year: Fall 2025

**Day and time:** Thursday, 18:30-21:00 **Instructor:** Ing. Armend Qerimi, MSc.

**Instructor contact:** armend.qerimi@aauni.edu **Consultation hours:** Before class by appointment

Credits US/ECTS	3/6	Level	Introductory	
Length	15 weeks	Pre-requisite	None	
Contact hours	42 hours	Course type	Bachelor General Education	
			Course	

#### 1. Course Description

The course introduces students to the practical use of computer information systems in everyday academic, professional, and personal contexts. Emphasis is placed on how digital tools and basic information systems support organization, research, communication, and decision-making across disciplines. The course explores topics such as digital productivity, data interpretation, responsible internet behavior, online safety, and AI-assisted learning. Students engage in hands-on activities, discussions, and group work using real tools and case-based examples. No prior technical knowledge is required, making the course accessible to students from all study backgrounds.

## 2. Student Learning Outcomes

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

- Describe the core components of contemporary information systems including basic hardware, software, cloud services, and networks – and explain how they support everyday academic tasks.
- Select and apply appropriate digital productivity and collaboration tools to organize work, manage study projects, and work effectively in teams.
- Collect, format, and analyze small datasets in spreadsheet software, and interpret resulting tables, charts, or dashboards to inform simple decisions.
- Formulate clear prompts and ethically employ generative AI tools to enhance learning, research, and writing, while documenting AI contributions and limitations.
- Identify common cybersecurity threats, implement basic protective measures, and manage personal digital identity and online footprint responsibly.
- Plan, create, and deliver a concise, visually supported presentation individually or in a small group – using online slide or white-board platforms to communicate structured ideas to an academic audience.

#### **General Education Learning Outcomes**

This is a general education course. Your general education core curriculum enables you to learn and practice the basics about the use of information systems that will become the foundation for learning and achieving success in your academic major.

## 3. Reading Material

#### Required Materials

- All materials can be accessed via NEO:
  - Overview of Information Systems (Rainer & Prince, 2023)
  - Cybersecurity Essentials, 2nd Edition by Charles J. Brooks, Christopher Grow, Philip Craig, & Donald Short (Wiley, 2022)
  - o Articles or additional materials provided in class and/or on NEO

#### **Recommended Materials**

• Recommendations will be provided during the semester via NEO as the aim is to cover the latest innovations on the Information technology world.

### 4. Teaching methodology

Each class includes a short lecture, open discussions, and hands-on exercises using real tools or examples. Students work individually and in groups to apply what they learn in a clear and useful way. Active participation is expected throughout. The course includes individual tasks and a group presentation to support learning and practical understanding.

## 5. Course Schedule

Date	Online Coursework/ Assignment Due					
Lesson 1	Topic: Course introduction and academic expectations; Introduction to					
Sep 04	Information Systems; Introductory discussion with topic "using					
	technology to succeed"					
	<b>Description:</b> We will walk through the syllabus and introduce the topics of this					
	course along with the academic expectations for both, students and professor.					
	We will have a presentation about the information systems concepts and an					
	open discussion about the use of information systems					
	<b>Assignments/deadlines:</b> Verification of the login credentials and ability to upload assignments on NEO					
	Due before class meeting: Syllabus review					
Lesson 2	Topic: Computer and information systems concepts and evolution					
Sep 11	<b>Description:</b> We will explore how selected digital tools—such as Notion, Google					
	Workspace, Trello, and Evernote - can help with managing notes, assignments,					
	group tasks, and deadlines. The focus will be on showing practical examples and					
	guided use cases relevant to university life and personal productivity					
	Reading: Overview of Information Systems (Rainer & Prince, 2023)					
	Assignments/Deadlines:					
	Provide two everyday examples of systems you use and describe what they help					
	you					
Lesson 3	Topic: Tools That Help You Study and Stay Organized					
Sep 18	<b>Description:</b> We will talk about different types of information systems we use in					
	daily life - from those that manage information and support learning to tools that help with communication and collaboration. Then we will explain how cloud-					
	based systems work and try out tools like Notion, Google Docs, and Trello to see					
	how they help you stay organized. This session will also include introduction to					
	AI and AI tools.					
	Reading: Information Systems in Organizations (Rainer & Prince, 2023); and					
	shared demos of practical tools					
	Assignments/Deadlines: Try at least one of the tools introduced in class and					
	write a short reflection (due before next session)					
Week 4	Topic: Basics of Data and Visual Information, Introduction to					
Sep 25	Spreadsheet Software					
	<b>Description:</b> We will explain what we mean by data, how we use it in different					
	situations, and why it matters. Then we will look at how data is shown in					
	different formats like charts, dashboards, maps, or lists. As part of this, we'll also introduce basic spreadsheet tools like Excel to see how they help us					
	organize, format, and work with information in a clear and structured way. We					
	will focus on what makes visual information useful and where it can be unclear					
	or misleading.					
	<b>Assignments/Deadlines:</b> Group work: compare and discuss real-life examples					
	of visual data (infographics, app dashboards, graphs, or similar)					

Lesson 5 Oct 02	Topic: Introducing AI: Using Smart Tools to Get Help with Tasks Description: We will introduce the basics of AI tools and show how they can be used to support different types of tasks. Focus will be on how to ask clear and useful questions or prompts. We'll test some examples directly in class and compare how the answers change based on how the prompt is written. Reading: Selected short reading on prompt design (PDF on NEO) Assignments/deadlines: Try at least two AI tools (e.g., ChatGPT, Copilot, or similar) and bring one example of a good and bad prompt for discussion next class
Lesson 6 Oct 09	Topic: Getting Help from AI for Research and Writing Description: We will explore how AI tools can help with everyday academic tasks like summarizing long texts, finding structure in an idea, or getting explanations. Focus will be on examples that show how to use these tools without over-relying on them.  We will have an introduction to semester project requirements Assignments/deadlines: We will have an introduction to semester project requirements.  Write a short paragraph using AI to help rephrase or organize your ideas. Bring both the AI version and your original version to discuss in class next week
Lesson 7 Oct 16	Topic: AI and Digital Content: From Chatbots to Deepfakes Description: We will talk about how AI-generated content is created—from smart assistants and writing tools to deepfakes and manipulated visuals. We will look at how this content is generated, how to identify it, and how it affects our perception and trust online. The lesson will also briefly touch on the evolution of AI content and how it's changing the digital space.  Reading: <a href="https://www.cyberark.com/resources/blog/deepfake-news-the-impact-of-ai-and-synthetic-media-on-trust-identity-and-democracy">https://www.cyberark.com/resources/blog/deepfake-news-the-impact-of-ai-and-synthetic-media-on-trust-identity-and-democracy</a> Assignments/deadlines: Try out one AI-generated tool (text, image, or voice). Bring a sample to class and reflect briefly on how you knew it was AI-generated (or not).
Session 8 Oct 23	Topic: Mid-term exam  Description: Mid Term test covering the lectures from previous weeks  Reading: Assignments/deadlines:
Oct 30	Mid-term break

Lesson 9	Topic: Staying Safe Online and Managing Your Digital Identity					
Nov 06	<b>Description:</b> We will talk about what it means to stay safe online—from					
	avoiding scams, phishing, and weak passwords to understanding what happens					
	to the data we leave behind. The session will cover concepts like digital					
	footprints, personalization, cookies, and data trails—what they are, how they					
	work, and how they shape our online identity. We will also discuss practical					
	ways to manage your digital behavior and protect your privacy.					
	<b>Reading:</b> Chapters 1 & 2 from <i>Cybersecurity Essentials</i> (Brooks, Grow, Craig &					
	Short, 2nd Edition, Wiley, 2022) – "What is Cybersecurity?" and "Cyber Threat					
	Landscape" and Selected excerpts from Digital Literacy Unpacked (Reedy &					
	Parker, 2018), Ch. 5: "Managing digital identity" (PDF will be provided)					
	Assignments/deadlines: Come prepared with one example of a scam, fraud,					
	or security breach you've heard of or experienced					
Lesson 10	Topic: Spreadsheet applications - Working with Formulas and Useful					
Nov 13	Functions  Description: We will work with appendence aeftware to explore how formulae					
	<b>Description:</b> We will work with spreadsheet software to explore how formulas					
	and functions can help us organize and make sense of data. The session will					
	cover how to format cells, clean up simple datasets, and apply functions like					
	basic math, logic (like IF), and lookups. Focus will be on how these tools help					
	you organize data and find useful answers.					
	Reading: Spreadsheet practice task (details in class) Assignments/deadlines: None					
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Lesson 11	Topic: Spreadsheet applications - Practical Exercises and Real-World					
Nov 20	Scenarios					
	<b>Description:</b> This session will be focused on practice. You'll work through real-					
	life examples using spreadsheets - cleaning data, using logical and lookup					
	functions, sorting, filtering, and creating basic summaries. The goal is to build					
	fluency and apply what we covered last week. You'll get direct feedback and tips					
	during the class.					
	<b>Reading:</b> Complete the in-class Excel tasks and submit your file by the end of					
	the week					
	Assignments/deadlines: None					
Week 12	2 Topic: Using Online Tools to Develop and Present Ideas					
Nov 27	<b>Description:</b> We will look at how different platforms - like whiteboards, slides,					
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Topic: Semester project completion and presentation Lesson 13 Dec 04 **Description:** We will have a presentation of the semester project where each group will present their work Assignments/deadlines: Semester project presentation Due before class meeting: Upload of the semester project document (Word document) and presentation on NEO **Topic: Final Exam** Lesson 14 **Description:** The final exam will be multiple choice questions covering the Dec 11 whole semester **Reading:** Review course materials Assignments/deadlines: Final Exam

## 6. Course Requirements and Assessment (with estimated workloads)

Assignment	Workload (average)	Weight in Final Grade	Evaluated Course Specific Learning Outcomes	Evaluated Institutional Learning Outcomes*
Attendance and participation	25	10%	Students are expected to be in class, participate and submit in class work.	3
In class activities and homework	25	10%	Working in teams or individually on the topics assigned in class.	2
AI-reflection workbook assignment	25	10%	Working individually to document AI work and prompts used during the semester	
Test covering class lessons before midterm (Test 1)	25	20%	Written test based on a topic from week 1 to week 7	1,2
Semester project delivery and presentation	25	20%	The student is able to write a paper presenting a given topic in a consistent way and to deliver a presentation based on the written paper and topic, in a concise and precise way.	1,2,3
Final Test	25	30%	Written test based on topics covered during lessons	1,3
TOTAL	150	100%		

<sup>\*1 =</sup> Critical Thinking; 2 = Effective Communication; 3 = Effective and Responsible Action

Prepared by: Armend Qerimi, June 28, 2025