

DIG2005

Course Syllabus

Please read the syllabus in its entirety.

Introduction to Digital Technologies

About the Course

General Course Info

Course number: DIG 2005

Semester/Year: Fall 2022

Credit Hours: 3.0

Course Website: elearning.ufl.edu

Course Instructor

Facilitating Faculty: Professor Michael Clark

Presenting Faculty: Prof. James Oliverio

Office (hours): Room 115 by Appointment

Contact email: Via [Canvas mail](#)

Contact phone: (352) 294-2000

Course Description

An introduction to fundamental concepts, terms, and applications of digital and computing technologies. The topics covered provide the basis for a solid understanding of the components of common technological constructs including software, hardware, databases, networks, and



Enrollment as a University of Florida student; no prerequisite courses.

PURPOSE OF COURSE

To provide students an understanding and basic fluency in contemporary digital constructs and systems.

COURSE GOALS AND/OR OBJECTIVES

By the end of this course, students will be able to:

- Compare and contrast analog and digital systems
- Describe components and functions of digital hardware and software
- Demonstrate fluency in digital technology concepts and terms
- Analyze the components and functions of consumer electronics
- Demonstrate understanding of current technology trends including AI, Blockchain, AR/VR/MR, and IOT

Course Schedule

This schedule is an overview of topics and assignments and may be subject to change. Unless otherwise indicated, Assignments are DUE by 11:59 PM Eastern Time on the Friday one week after the assignment is GIVEN.

The final exam time scheduled for this course will be announced in advance of each semester by the University of [Florida Registrar's Office](https://registrar.ufl.edu/soc/) (<https://registrar.ufl.edu/soc/>)

Weekly Schedule

Module	Topic	Quizzes • Assignments
0	Introduction and Overview	Quiz 0: Syllabus
1	Analog and Digital Systems	Quiz 1 • Assignment 01 Given: Earliest Technologies
2	By the Numbers	Quiz 2



Module	Topic	Quizzes • Assignments
3	Hardware, Software, and Firmware	Quiz 3
4	Sound, Images, & Consumer Electronics	Quiz 4 • Assignment 02 Given: Design your Own
5	Databases	Quiz 5 • Assignment 02 DUE
6	Network Connections, Languages & Protocols	Quiz 6
7	BIG DATA: Concepts and Applications	Quiz 7: Midterm (all topics covered in modules 1-7)
8	Virtual, Augmented, and Mixed Realities	Quiz 8
9	Introduction to Artificial Intelligence	Quiz 9 • Assignment 03 Given: The Singularity
10	The Internet of Things (IOT)	Quiz 10 • Assignment 03 DUE
11	Intro to Blockchain - Principles & Applications	Quiz 11



Module	Topic	Quizzes • Assignments
		The Next Big Thing
13	Ethics and Computing Futures	Quiz 13 • Assignment 04 DUE
14	Careers in Digital Sectors	Quiz 14
15	Review and preparation for Final Exam	Quiz 15 - FINAL (all topics covered in modules 8-14)

Required Textbook and Software

None - The instructor will provide any needed reading materials

COURSE STRUCTURE

The course consists of an Orientation Module and 15 Content Modules. You have one week to work on each module. Each week, you will watch lectures, take quizzes and complete assignments.

COURSE FEES

Course fees are assessed for certain courses to offset the cost of materials or supply items consumed in the course of instruction. A list of approved courses and fees is published in the Schedule of Courses each semester. (UF-3.0374 Regulations of the University of Florida).

Material and supply and equipment use fee information is available from the academic departments or from the schedule of courses (Florida Statutes 1009.24). The total course fee for this class is \$0.00

The total course fee for each course is listed on the UF Schedule of Courses. (<https://registrar.ufl.edu/soc/>).

Credits

This document provides credits for the images and videos used in the presentations. The images



Evaluation of Grades

Graded Course Components	Percentage of Grade
Weekly Quizzes	25%
Four Assignments	20%
Midterm exam	20%
Participation	15%
Final exam	20%

Grading Scale

Letter Grade	% Equivalency	GPA Equivalency
A	94-100%	4.0
A-	90 – 93%	3.67
B+	87 – 89%	3.33
B	84 – 86%	3.00
B-	80 – 83%	2.67
C+	77 – 79%	2.33
C	74 – 76%	2.00
C-	70 – 73%	1.67
D+	67 – 69%	1.33



Letter Grade	% Equivalency	GPA Equivalency
D-	60 – 63%	.67
E, I, NG, S-U, WF	0 – 59%	0.00

More information on grades and grading policies can be found on the [UF Grades and Grading Policies webpage](https://catalog.ufl.edu/UGRD/academic-regulations/grades-grading-policies/) (https://catalog.ufl.edu/UGRD/academic-regulations/grades-grading-policies/)

Course Policies

Participation Policy

We value participation more than mere attendance. The Instructor is responsible for communicating the specific details of what percentage of your grade (if any) will be assigned to participation, and how will class participation be measured and graded.

MAKE-UP POLICY

At the sole discretion of the Instructor, Exams may or may not be taken late. Documented Emergencies or medical situations may be the only accepted reasons for an excused absence on the day of an exam.

Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found at:

<https://catalog.ufl.edu/UGRD/academic-regulations/attendance-policies/>

ASSIGNMENT POLICY

At the sole discretion of the Instructor, late work may not be accepted, or be penalized according to the course's late policy.

Any assignment turned in past the due date may lose up to 10% of the total point value of the assignment for each class day it is late.

Creation of Original Content Ethics

For original projects and all assignment deliverables, students should remember that representations of acts of violence, coarse and offensive language, sexual behavior, bodily function and ability, neurodiversity, and personal identity are likely to cause extreme audience response, regardless of the creator's intentions. In addition, the recreation of such actions and subject for fictional purpose may unintentionally traumatize or negatively impact those who



potentially triggering. Instructors, faculty, and university administrators reserve the right to not show or share any student work they feel is inappropriate for their classroom or for public exhibition, as there may be concerns about the impact of such work on the community. We encourage students to consult with their faculty when producing work that might be considered controversial, and to err on the side of being cautious when it comes to making decisions about a project's content - in other words, make the PG-13 version of your story, not the R version, and certainly not the "unrated" version. This is also to help students understand that most professional creative situations have strict guidelines and limitations on such content and how it is produced: your ability to tell stories effectively with "less" is a strong professional skill that will aid in the dissemination of your work to a broader audience.

COURSE COMMUNICATIONS

Students can communicate directly with the Instructor regarding the course material through Canvas e-mail only: [UF e-Learning \(http://elearning.ufl.edu/\)](http://elearning.ufl.edu/)

COURSE TECHNOLOGY

The students will be required to have access to and use a personal computer with the access to the Internet. Word editing software will be required for written assignments.

The University of Florida and Digital Worlds requires that students have access to and on-going use of a laptop/mobile computer for DIG courses in order to be able to function in the current learning environment. Digital Worlds requires each student's laptop computer to meet certain minimum specs for heavy graphics use, the requirements documented below must be met.

[DW Technology Requirements](#)

UF Policies

UNIVERSITY HONESTY POLICY

UF students are bound by The Honor Pledge that states, "We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment."

[The Honor Code \(https://www.dso.ufl.edu/sccr/process/student-conduction-honor-code/\)](https://www.dso.ufl.edu/sccr/process/student-conduction-honor-code/) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor or TAs in this



Students are expected to arrive to class on time and behave in a manner that is respectful to the instructor and to fellow students. Please avoid the use of cell phones and restrict eating to outside of the classroom. Opinions held by other students should be respected in discussion, and conversations that do not contribute to the discussion should be held at minimum, if at all.

STUDENTS REQUIRING ACCOMMODATIONS

Students with disabilities requesting accommodations should first register with the [Disability Resource Center](#) (352-392-8565, www.dso.ufl.edu/drc/) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.

NETIQUETTE COMMUNICATION COURTESY

All members of the class are expected to follow rules of common courtesy in all email messages, threaded discussions and chats. For more information, refer to the [Netiquette Guide for Online Courses](http://teach.ufl.edu/wp-content/uploads/2012/08/NetiquetteGuideforOnlineCourses.pdf) (<http://teach.ufl.edu/wp-content/uploads/2012/08/NetiquetteGuideforOnlineCourses.pdf>)

ONLINE COURSE EVALUATIONS

Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at [GatorRator](https://evaluations.ufl.edu) (<https://evaluations.ufl.edu>). Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at [GatorRator Public Results](https://evaluations.ufl.edu/results/) (<https://evaluations.ufl.edu/results/>).

Privacy and Accessibility Policies

For information about the privacy policies of the tools used in this course, see the links below:

Instructure (Canvas)

- [Privacy Policy](#)
- [Accessibility](#)

Vimeo

- [Privacy Policy](#)
- [Accessibility](#)

Zoom



YouTube (Google)

- [Privacy Policy](#).
- [Accessibility](#).

Microsoft

- [Privacy Policy](#).
- [Accessibility](#).

Adobe

- [Privacy Policy](#).
- [Accessibility](#).

Campus Resources

Health and Wellness

U Matter, We Care: If you or a friend is in distress, please contact umatter@ufl.edu or 352-392-1575 so that a team member can reach out to the student.

Counseling and Wellness Center (<http://www.counseling.ufl.edu/cwc/Default.aspx>), 392-1575; and the University Police Department: 392-1111 or 9-1-1 for emergencies.

Sexual Assault Recovery Services (SARS), Student Health Care Center, 392-1161.

Student Health Care Center: Call 352-392-1161 for 24/7 information to help you find the care you need, or visit the [Student Health Care Center website](#).

University Police Department, <http://www.police.ufl.edu/>, 392-1111 (or 9-1-1 for emergencies).

UF Health Shands Emergency Room / Trauma Center: For immediate medical care call 352-733-0111 or go to the emergency room at 1515 SW Archer Road, Gainesville, FL 32608; Visit the [UF Health Emergency Room and Trauma Center website](#).

ACADEMIC RESOURCES

E-learning technical support: 352-392-4357 (select option 2) or e-mail to Learning-support@ufl.edu; <https://lss.at.ufl.edu/help.shtml>.

Career Resource Center: 392-1601; Reitz Union; Career assistance and counseling; <http://www.crc.ufl.edu/>

Library Support, <http://cms.uflib.ufl.edu/ask>. Various ways to receive assistance with



Writing Studio, 302 Tigert Hall, 846-1138. Help brainstorming, formatting, and writing papers. <http://writing.ufl.edu/writing-studio/>

Student Complaints Campus:

https://www.dso.ufl.edu/documents/UF_Complaints_policy.pdf

On-Line Students Complaints: <http://www.distance.ufl.edu/student-complaint-process>

Disclaimer

This syllabus represents the Instructor's current plans and objectives. As we go through the semester, those plans may need to change to enhance the class learning opportunity. Such changes, communicated clearly, are not unusual and should be expected.