

PROTOCOLS FOR MULTIMEDIA INTERFACES

COURSE NUMBER: DIG6751C	INSTRUCTOR: ANGELOS BARMPOUTIS, PHD
SEMESTER/YEAR: SPRING 2018	OFFICE LOCATION/HOURS: ONLINE / T & R 3 RD PERIOD
SECTION: 07F0	CONTACT EMAIL: ANGELOS@DIGITALWORLDS.UFL.EDU
CLASS LOCATION: NRG 0120	CONTACT PHONE: (352) 294-2000
CLASS MEETING TIME(S): CANVAS / ON YOUR OWN TIME	COURSE WEBSITE: elearning.ufl.edu
Credit Hours: 3.0	

COURSE DESCRIPTION

The goal of this class is to learn about the protocols that control the interface of devices such as computers, mobile phones, multimedia players etc. through the means of programming and scripting. This class offers an introduction to programming for non-programmers ideal for those who are interested in developing computer applications or mobile apps, such as educators, digital humanists, digital artists, scientists, and game developers, and there is no requirement for prior knowledge on this field. A wide range of human-computer interaction components will be covered, from standard keyboard/mouse/joystic functions up to state of the art touch screens and other natural user interfaces (Microsoft KINECT and others). The students will be exposed to the basic principles of interactive event handling and they will acquire skills in coding touch screen interaction using HTML5-based platforms, web-based interaction using JavaScript, as well as standard interaction methods for computer applications.

PREREQUISITE KNOWLEDGE AND SKILLS

None

PURPOSE OF COURSE

To learn general programming concepts, to acquire scripting skills, to understand multimedia representations in digital devices, to script interaction in virtual environments.

COURSE GOALS AND/OR OBJECTIVES: *By the end of this course, students will be able to:*

1. Learn general programming concepts.
2. Acquire scripting skills.
3. Understand multimedia representations in digital devices.
4. Script interaction in multimedia environments.

COURSE SCHEDULE:

This schedule is only a guide and is subject to change. Unless otherwise indicated, assignments and readings are due the day they are listed on the syllabus, not the following day.

THERE IS A FINAL EXAM ON MAY 1, 2018. THE EXAM WILL BE AVAILABLE ONLINE FOR THE ENTIRE DAY.

DIG6751C – PROTOCOLS FOR MULTIMEDIA INTERFACES

Week	Topic	Assignments/Quizzes
1	Introduction on computer interfaces, Variables & Conditions	Quiz
2	Loops & Arrays	Quiz
3	Functions	Programming assignment
4	Programming Animations using Images	Programming assignment
5	Object-oriented Programming	
6	Custom Graphical User Interfaces – Pointing device interaction	Programming assignment
7	Interactive applications with graphical user interfaces	
8	Programming 3D Animations	Programming assignment
9	Programming 3D Animations – Part 2	
10	Developing Interactive 3D Games – Part 1	
11	Developing Interactive 3D Games – Part 2	
12	Professional Integrated Development Environments	Programming assignment
13	Developing applications in IDE	
14	Programming Kinect interactions	
15	Review and Exam	

REQUIRED TEXTBOOKS AND SOFTWARE:

LEARNING PROCESSING: A BEGINNER’S GUIDE TO PROGRAM by DANIEL SHIFFMAN, ISBN: 9780123736024

Additionally, there will be several useful on-line tutorials and resources.

RECOMMENDED TEXTBOOKS AND SOFTWARE:

Programming, Kasparian Raffi, ISBN: 1932504052

Beginning Smartphone Web Development: Building Javascript, CSS, HTML, and AJAX-based Applications for iPhone, Android, Palm Pre, Blackberry, Windows MO, Gail Frederick and Rajesh Lal, ISBN: 143022620X

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 \$5.50

The total course fee for each course is listed on the UF Schedule of Courses.

(<https://registrar.ufl.edu/soc/>).

EVALUATION OF GRADES

Assignment	Total Points	Percentage of Grade
Weekly Homework Projects – Programming assignments that you have to complete every 1-2 weeks.	60	60%
Final Exam – Cumulative final written examination.	30	30%
Participation – Students are expected to actively participate in class discussions and quizzes	10	10%

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
D	64 – 66%	1.00
D-	60 – 63%	.67
E, I, NG, S-U, WF		0.00

More information on grades and grading policies is here:

<https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>

COURSE POLICIES:

PARTICIPATION / ATTENDANCE

In our course, attendance for On-Campus and RT On-Line students is mandatory. Students are allowed **three unexcused absences**. If you miss more than **three classes** during the semester, each additional absence will lower your overall grade by **100 points**. If you miss more than **six classes**, you will fail the course. Exempt from this policy are only those absences involving university-sponsored events, such as

athletics and band, and religious holidays, family emergencies, and health issues for which **you must provide appropriate documentation in advance of the absence.**

Additionally, tardiness will not be tolerated. If you are tardy for three class periods, you will receive an unexcused absence.

YOT On-Line students will be expected to stay in sync with the rest of the class, and to achieve their participation portion by recording/writing their responses to course material in advance of each lecture at least once a week.

MAKE-UP POLICY

Unless discussed at least 72 hours in advance of the deadline, late assignments will not be accepted. Excluded from this policy are any assignments missed due to medical emergencies.

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/ugrad/current/regulations/info/attendance.aspx>

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.

COURSE COMMUNICATIONS

Students can communicate directly with the Instructor regarding the course material through the course management system (CANVAS). Electronic communication must demonstrate a formal tone and style and, unless absolutely urgent, will be responded to M-F from 9 AM to 5 PM.

VIDEO LECTURE CAPTURE

High-quality video lecture capture of this course is available only for enrolled students. These video captures are edited and posted within 24-48 hours of the class meeting for the benefit of the Your Own Time [YOT] students and to offer the potential for review by on-campus and Real Time [RT] online students. For the on-campus and RT students, watching lectures in lieu of attending and participating in class is NOT acceptable.

Your Instructor will provide you with this semester's login information during the first week of class. It is not permissible to share or distribute video login information to anyone other than officially enrolled students of this course. Lecture videos can be found at <https://vimeo.com/digitalworlds>.

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](#) 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 class.

PLAGIARISM

Plagiarism is a violation of the UF honor code. A student shall not represent as the student's own work all or any portion of the work of another. Plagiarism includes but is not limited to:

“1. Quoting oral or written materials including but not limited to those found on the internet, whether published or unpublished, without proper attribution.

2. Submitting a document or assignment which in whole or in part is identical or substantially identical to a document or assignment not authored by the student.”

Students shall not use unauthorized materials or resources in an academic activity. Unauthorized materials or resources includes any paper or project authored by the student (or another student) “and presented by the student for the satisfaction of any academic requirement if the student previously submitted substantially the same paper or project to satisfy an academic requirement and did not receive express authorization to resubmit the paper or project.”

CLASS DEMEANOR

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) 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, more information can be found at: <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](#). 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 [evaluation results](#).

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.

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

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, Reitz Union, 392-1601. Career assistance and counseling.

<http://www.crc.ufl.edu/>

Library Support, <http://cms.uflib.ufl.edu/ask>. Various ways to receive assistance with respect to using the libraries or finding resources.

Teaching Center, Broward Hall, 392-2010 or 392-6420. General study skills and tutoring.

<http://teachingcenter.ufl.edu/>

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>

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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.