

required texts

Beginning Arduino by Michael McRoberts 2010 ISBN-1430232404 This book is also can be accessed as an e-book from the UF library. It has not been tested but I believe that only two of people can access the book at one time.

Manga Guide To Electricity by Kazuhiro Fujitaki and Matsuda 2012 ISBN-1593271972

recommended texts

Getting Started in Electronics by Forrest Mims 2003 ISBN-0945053282

Getting Started with Arduino. Massimo Banzi. O'Reilly Media, 2008 ISBN 10: 0-596-15551-4 | ISBN 13: 9780596155513

Making Things Talk: Practical Methods for Connecting Physical Objects. Tom Igoe. Make Books, 2007.

Physical Computing: Sensing and Controlling the Physical World with Computers. Tom Igoe and Dan O'Sullivan. Course Technology PTR, 2004.)

Getting Started in Electronics. Forrest M. Mims III, ©1983, Forrest M. Mims III

The User Illusion: Cutting Consciousness Down to Size, Tor Nørretranders ©1998 Viking Press; ISBN: 0670875791

access to software

Arduino, Processing

equipment and supplies

Grades and Evaluation

various so.... problem solving.

Distribution of Grades

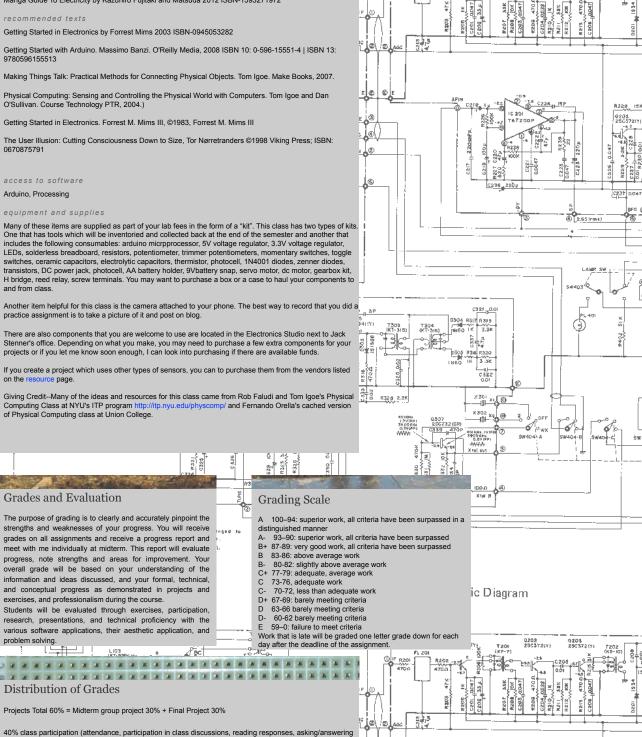
Many of these items are supplied as part of your lab fees in the form of a "kit". This class has two types of kits. One that has tools which will be inventoried and collected back at the end of the semester and another that includes the following consumables: arduino microprocessor, 5V voltage regulator, 3.3V voltage regulator, LEDs, solderless breadboard, resistors, potentiometer, trimmer potentiometers, momentary switches, toggle switches, ceramic capacitors, electrolytic capacitors, thermistor, photocell, 1N4001 diodes, zenner diodes, transistors, DC power jack, photocell, AA battery holder, 9Vbattery snap, servo motor, dc motor, gearbox kit, H bridge, reed relay, screw terminals. You may want to purchase a box or a case to haul your components to and from class

Another item helpful for this class is the camera attached to your phone. The best way to record that you did a practice assignment is to take a picture of it and post on blog.

There are also components that you are welcome to use are located in the Electronics Studio next to Jack Stenner's office. Depending on what you make, you may need to purchase a few extra components for your projects or if you let me know soon enough, I can look into purchasing if there are available funds.

If you create a project which uses other types of sensors, you can to purchase them from the vendors listed on the resource page

Giving Credit--Many of the ideas and resources for this class came from Rob Faludi and Tom Igoe's Physical Computing Class at NYU's ITP program http://itp.nyu.edu/physcomp/ and Fernando Orella's cached version of Physical Computing class at Union College.



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questions, teamwork, coming to class with all materials, general preparation, and proper classroom etiquette) in-class experiments, assignments, homework, guizzes, and exercises

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Attendence + Participation

This class is very experiential and experimental in nature. We will do a lot of in class activities for which you will get credit. Many of these activites can not be "made up" outside of class. You will miss out on a great deal if you do not come. There is a correlation in studio classes between attendance and final grades. You have a better chance of doing well if you come to class. Only three (3) unexcused absences will be allowed. Every unexcused absence beyond this will lower your grade by a letter grade. A total of seven absences, excused or unexcused, will result in a grade of "E" for the class. Excused absences include religious holidays, a verifiable death in the immediate family or with a doctor's note.

What constitutes participation?

contribution to class discussions

· positive attitude and open mind

asking relevant questions
thoughtful responses
consideration for classmates

o attendance

expectations for class participation

Participation by all members is critical to the success of this class. Excellent participation is a given and includes contributing to ongoing discussions and critiques, suggests alternative ways

of approaching projects, along with a thoughtful process and strong work ethic. Participation is evaluated with respect to both quality and quantity.

lateness and leaving early

I will take attendance at the beginning of each class. If you are not present at that time, you will be marked as absent unless you see me at the end of class letting me know that you came so I can correct my attendance sheet. You are expected to stay for the entire class period. I generally check to see who is around after the break. If you leave, your attendance will be recorded as late. Three late marks count as an unexcused absence. If you know that you will be late or absent, please let me know in advance by contacting me at kgladdys@ufl.edu. Both lateness and absence will also have an effect on your participation grade.

late assignments

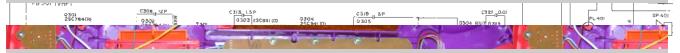
The two major projects for this class need to be completed on time. If you turn a project after the deadline, 10% will be deducted for each day the project is late. Assignments that are 10 points or less may not be made up unless you have an excused absence or have contacted me in advance. If you arrive late and miss the better part of an in class assignment, you are welcome to do the assignment on your own time, but I will not give credit for it. It is not fair to the students who were on time.

keeping and making up

If you are having difficulties for any reason in understanding the material and completing the work for this class, you need to make an appointment to meet and talk with me. Do not wait until the last minute right before an assignment is due) or until you are totally lost to contact me. Requirements for class attendance and make-up exams, assignments, and other work are consistent with university policies that can be found at: https://catalog.ufi.edu/ugrad/current/regulations/info/attendance.aspx.

computer lab informations

When this class is held in the lab, there is no food and drink. For lab hours, equipment checkout information, access http://plaza.ufl.edu/mchristo/



Respect

I want this class to be fun and meaningful with everybody feeling comfortable to contribute to the dialogue. This is how we learn. Effective learning/teaching is a creative and co-constructed experience with give and take between teacher and student and between student and student. Key to facilitating an environment for learning is respect. Disruptive and disrepective behavior make for stressful atmosphere which is not conducive to learning. Please observe the following class policies.

- · Be professional; be on time. Walking in late or not being prepared is disruptive to others.
- You are expected to stay for the entire class.
- · Cell phones need and pagers to be turned off before class starts.
- In group projects, you are expected to do your share of the work and communicate effectively with others in your group ie. giving correct contact information to the rest of the group, responding to emails and phone calls regarding the group project, attending meetings to work out assignments and schedules.
- Most of my comminications outside of class with individuals as well as the class are done via email, please check your UFL account regularly for updates and additional course information.
 Address me and your fellow students respectfully both in person and in e-mail.
- Pay attention during class, no surfing that is not relevant to the topic at hand, AlMing, reading newspapers, doing work for other classes.
- Listening to other students and myself while they are talking and not carrying on converstations or interrupting while others have the floor.
- · Students will conduct themselves with personal integrity and honesty. See UF policies below.
- Common courtesy--treat others as you would like to be treated.

What you can expect from me

• End class on time or within two minutes of scheduled ending time

• Answer students' email with in 24 hours or less (usually less) unless I am out of the country or in a place where there is not email. My office phone is NOT the best way to reach me as I am often in the lab teaching or in my studio working. Face to face communication in class or email are the preferred methods of communication.

- · Return assignments in a timely manner
- · Be available during my office hours. If I am not in town, I will let you know in advance if I am not able to attend office hours.
- Listen to student concerns and questions.
- · Explain and answer questions regarding the topics of the class
- Try and answer students' questions either with a solution or a reference to a relevant resource within 48 hours.
- Abide by the grading scale above and not change dates for turning in assignments unless the class as a whole has agreed upon the change.

- Abide by the grading sould above and not change dates for tarning in assignments and eas as a whole has agreed aport the change.
Inform students of their progress in the class at the midterm
MANDARE, FRANKARE, FRANKARE,
general university policies and services
UF STUDENT GUIDE
This resource covers most policies and procedures important to students - http://www.dso.ufl.edu/stg/

accommodations for students with disabilities I will make every attempt to accommodate students with disabilities. Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation. Disability Office — http://www.dso.ufl.edu/OSD/
contacts for university counseling services
Includes personal, academic, crisis and career services. Dial 392-1575.
http://www.counsel.ufl.edu/
Dial 911 for medical emergencies.
Dial 392-1161 for urgent after-hours medical questions.
Dial 392-1171 for after-hours mental health assistance.
http://www.health.ufl.edu/shcc/
environmental health and safety
http://www.arts.ufl.edu/art/healthandsafety
Each student must complete a H&S STUDENT WAIVER FORM (available next to the copier in the SAAH office) and on-line (see address above). Waivers must be turned into the SAAH Director of
Operations before the end of the 2nd week of classes. Because we use some hzardous materials as part of the electronic components that become part of our projects, please pay particular attention to the guideliens below.
Appendix I: Area Specific Information: Digital Media
1. Hazards of Materials Batteries, old monitors, lamps from digital projectors if broken may release mercury.
THERE ARE NO KNOWN HEALTH HAZARDS FROM EXPOSURE TO LAMPS THAT ARE INTACT. 2. Best Practices
Though not much is generated, the Digital Media technician is certified for handling Hazardous Waste by the University of Reference with other area specific information as needed.
3. Links n/a
4. Area Rules - All users of the studio classrooms are expected to follow studio area rules at all times. If you have any questions, ask
your instructor. • Follow all SA+AH Health and Safety handbook guidelines (the handbook should be reviewed by your
instructor and can be found at: www.arts.ufl.edu/art/healthandsafety) Follow the SA+AH Satellite Waste Management Chart in the classroom and other health & safety
guidelines posted for your media.
In case of emergency, call campus police at 392-1111 File an incident report (forms may be found in the SAAH H&S handbook, the SAAH faculty handbook and in the
main office.) Turn completed forms into the SAAH Director of Operations within 48 hours of the event. • Alcohol is forbidden in studios
Familiarize yourself with the closest eyewash unit. No eating or drinking in computer the lab.
Do not use spray adhesive in the studios or in the building. There is a professional and safe paint spray booth in FAC-211A for your use.
Shoes must be worn at all times. Protective equipment must be worn for hazardous work.
Do not block aisles, halls or doors with stored items or when working. This is a violation of fire codes. Do not store anything on the floor. This impedes cleaning and creates a hazard.
Installations must be removed as soon as possible after critique.
Clean up spills immediately. Take items which do not fit into the trash to the dumpster, follow dumpster guidelines.
Follow the SA+AH CONTAINER POLICY (see policy below) There are 2 types of labels used in the SA+AH yellow and white. Both labels are found at the red MSDS box and
are supplied by the SA+AH. Each is used for a different purpose. White:
All new and or used product in containers (hazardous or what might be perceived as hazardous -i.e. watered down gesso, graphite solutions, satellite containers of solvents, powders, spray paints, fixatives, oils, solvents, etc) must
be labeled within the SA+AH to identify their contents. Labels can be found at the MSDS box in each studio and work area. All containers must be marked with your name, contents and date opened. All secondary/satellite
containers for hazardous materials must be marked with content, your name and the date opened. All unmarked
containers will be disposed of with no notice. Yellow:
WHEN HAZARDOUS ITEMS ARE DESIGNATED AS WASTE. All containers must have a yellow label identifying the contents that are designated as trash for weekly EHS pick
up. - Flammable solid containers (red flip top) must have a yellow hazardous waste label on the outside (top).
- 5 gallon jugs must have a yellow hazardous waste label on the outside. - Fibrous containers must have a yellow hazardous waste label on the outside (top).
- Each item in the blue bin must have a yellow hazardous waste label. Note: Hazardous Waste labels should include all constituents in the waste mixture as well as an approximate
Note: Hazardous Waste labels should include all constituents in the waste mixture as well as an approximate 2 percentage of the total for that item and must add up to 100%.
Labels should also include the Bldg and room number of the shop generating the waste along with the Waste Manager for your area, this is located on the SWMA sign posted at the sink or at the Waste Management Area.
safety and security
University Police Department - http://police.ufl.edu/ Dial 911 for emergencies. Dial 392-1111 otherwise.
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The two days prior to the start of examinations in the fall and spring semesters, generally a Thursday and Friday, are designated reading days. No classes or exams are held on these days. Instead, students are encouraged to use these days for study and review.
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twelve-day rule
Students who participate in official athletic or scholastic, extracurricular activities are permitted twelve (12) scholastic day absences per semester without penalty. In any case, it is the student's
responsibility to maintain satisfactory academic performance and attendance.
absences for religious holidays
Students, upon prior notification of their instructions, shall be excused from class or other scheduled academic activity to observe a religious holy day of their faith. Students shall be permitted a reasonable amount of time to make up the material or activities covered in their absence. A student who believes that he/she has been unreasonably denied an education benefit due to religious beliefs or practices may seek redress through the student grievance procedure.
honesty policy
An academic honesty offense is defined as the act of lying, cheating or stealing academic information so that one gains academic advantage. As a University of Florida student, one is expected to neither commit nor assist another in committing an academic honesty violation. Additionally, it is the student's duty to report observed academic honesty violations. These can include: cheating, plagiarism, bribery, misrepresentation, conspiracy, or fabrication.
computer use and acceptable use policy
All faculty, staff, and students of the University of Florida are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against University policies and rules, disciplinary action will be taken as appropriate.
http://www.circa.ufl.edu/computers/
http://www.cio.ufl.edu/aupolicy.htm
disruptive behavior
Faculty, students, Administrative and Professional staff members, and other employees [hereinafter referred to as "member(s)" of the University], who intentionally act to impair, interfere with, or obstruct the mission, purposes, order, operations, processes, and functions of the University shall be subject to appropriate disciplinary action by University authorities for misconduct, as set forth in the applicable rules of the Board of Regents and the University and state law governing such actions. A detailed list of disruptive conduct may be found at http://www.aa.ufl.edu/aa/Rules/1008.ht
Be advised that you can and will be dismissed from class if you engage in disruptive behavior.
Critical Dates on the University Calendar
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http://www.reg.ufi.edu/dates-critical.html
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