

## EE 322: Signals and Systems Course Policies for Fall 2009

### 1. Course Instructors –

Section 1111 – Assoc. Professor Robert Ives (Course Coordinator), Maury 334, 3-6165, [ives@usna.edu](mailto:ives@usna.edu)  
Section 5111– Asst. Professor Chris Anderson, Maury 318, 3-6185, [canderso@usna.edu](mailto:canderso@usna.edu)  
Section 5511– Asst. Professor Chris Anderson

2. **Prerequisites** – EE241, Electronics I or approval of Department Chair.

3. **Course Text** – *Fundamentals of Signals & Systems*, Roberts  
– *Introduction to MATLAB 7*, Etter

### 4. Grading –

Graded Work/Item	First marking period	Second marking period	Third marking period	Final
Exam 1	50 %	30 %	30 %	20 %
Exam 2	-	30 %	30 %	20 %
Quizzes	20 %	15 %	15 %	10 %
Homework	20 %	15 %	15 %	10 %
Lab reports*	10 %	10 %	10 %	10 %
Final Exam	-	-	-	30 %

\*Formal lab reports count twice as much as regular lab reports

Average (%)	Grade
90-100	A
80-89	B
70-79	C
60-69	D
< 60	F

*We reserve the right to change your final grade based upon our overall assessment of your course performance, including preparation, participation, and officer potential.*

### 5. Software –

MATLAB will be used extensively in this course.

### 6. Course Policies –

a. **Class Meetings:** Unless otherwise indicated, we will meet in our assigned classroom, Ri061. Labs will be conducted in the same room, and the lab is available during regular duty hours and during the evening (if the department grants the door combination to EE students).

**If you are given the door combination, do not disseminate it without permission!**

b. **Class preparation:** Read the assigned portions of the text(s) *prior* to coming to class.

c. **Late Work Penalty:** Notify your instructor *in advance* if you know you will miss a graded event (quiz or exam) for any reason. If you miss a quiz for a valid reason, your instructor will decide whether you need to make it up. For a given week, homework assigned Monday will be due at the beginning of class Wednesday. Homework assigned Wednesday will be due at the beginning of class Friday. Homework assigned Friday will be due at the beginning of class the following Monday. Lab reports are due at the beginning of the lab period in the following week. If a worksheet is assigned during a lab period (instead of an actual lab), it will be due the following lab period.

Assignment due dates (for homework or labs) may be extended under special circumstances. **You must hand in the homework/lab at the beginning of the class period on the date it is due. LATE ASSIGNMENTS EARN A ZERO, unless you have a valid reason and it has been approved by your professor!!** For valid reasons on late assignments, write the reason it is late at the top of the assignment.

- d. Destruction of Equipment: Accidents happen! You will not be academically penalized for accidentally damaging components or equipment. Bring your mistakes to your instructor's attention so that they can be rectified.
- e. Quizzes: Count on a quiz every week. They will usually be announced in advance.
- f. Labs: Labs are scheduled for most of the lab periods. These labs will be theory, simulation and/or hardware labs. One or more of the labs will require formal lab reports—you will be told which labs in advance. An example of the format is provided at the end of this document. **If you do not use this format, your lab grade will be reduced.** Labs requiring formal reports count twice as much as other labs.
- g. Exams: The 6-week and 12-week exams will be given during the lab period of each exam week. They will be closed book, although you will be allowed one side of one 8.5" x 11" sheet of paper to write down anything you want (handwritten, no photocopying). Turn this sheet in with your exam.
- h. Cease work: The command "cease work" will be used to clearly indicate that a graded event is over. At this point, you must immediately stop working on the quiz or exam and put your pen or pencil down or away.
- i. Computers:

There are no restrictions on the use students may make of computers in class except:

- The computers in the classroom are for official use only! Do not change their setting or configuration without permission. Do not install a program on a class computer without permission.
- You may not use computers during class for any purpose not directly connected to the subject matter of the course.
- You may not get assistance from anyone during quizzes, tests, or exams, so the use of communications program such as Internet Messenger or file-sharing software to do so is expressly forbidden.

**Backup** your work and do not assume that files stored on a lab computer's hard drive will not be erased or corrupted by others. **Additionally, the hard drives within the computers will be reformatted about once per month.**

## 7. Documentation – The following guidelines will be used in EE322.

Documentation refers to a written statement in your assignment that "*gives credit where credit is due.*" It allows me to assess how much of the assignment you did on your own and how and where you received help. This is no different from citing references in a paper you may write for this or any other class you are taking.

Homework is a special case! You are ***highly encouraged*** to work in groups or teams to solve the assigned problems. No documentation is required as long as you make a reasonable effort to understand the assigned homework problems. Every Midshipman must turn in his/her own work (copying from others is absolutely not permitted). Remember, ***learning is the goal!***

## 8. Supplemental Policies – Instructors will provide supplemental information as needed.

## 9. Course Website – <http://www.usna.edu/EE/ee322/>

**10. Instructor Schedules** – provided below so that you might schedule EI as needed. Be sure to work EI sessions out with me in advance, to make sure we're in our offices.

**Professor Ives:**

	Monday	Tuesday	Wednesday	Thursday	Friday
1	EE 322 (Ri061)	EE322 Lab (Ri061)	EE322 (Ri061)	Research	EE322 (Ri061)
2					
3					
4					
Lunch					
5	EE432 (Ri057)	EE432 Lab (Ri057)	EE432 (Ri057)		EE432 (Ri057)
6					

**Professor Anderson:**

	Monday	Tuesday	Wednesday	Thursday	Friday
1		EE433 Lab (Ri071)			
2	EE433 (Ri064)	EE433 (Ri064)	EE433 (Ri064)		EE433 (Ri064)
3					
4					
Lunch					
5	EE322 (Ri061)	EE322 Lab (Ri061)	EE322 (Ri061)		EE322 (Ri061)
6					

Lab #/Lab Name  
Midshipman Name(s)

### **I. Purpose**

What was the purpose of the lab?

### **II. Procedure/Algorithm**

Describe the procedure followed. Also, when writing code, there could be many ways to approach how to accomplish things. Describe how you decided to approach the problem and why. If you tried several ways to do things before something finally worked, describe the problems encountered here.

### **III. Results & Conclusions**

Discuss and include the results you obtained and any conclusions you reached. If your results include any plots, remember the things a good plot should include: title, label on the x-axis, label on the y-axis, and a legend. Images submitted should have a title, and typically don't have any axes.

### **IV. Code**

Submit your MATLAB code, if applicable, including functions and programs. This helps the professor track down any incorrect results you reached. You should have a lot of comments in your code to describe how things worked.

### **V. Acknowledgements**

If you received help in completing the project, give credit to who helped and how they helped you.

### **VI. Feedback (Optional)**

If you have some suggestions about how to improve this lab, or other ideas, put them here. Good feedback is a form of class participation.

## A “Well-Written” MATLAB function

When you write a MATLAB function or program, there are a few items that should be included. The following is an example of a well-written function. It contains comments right after the “function” line that tell the user how to use the function. Since this code is stored in a file called “sinc322.m”, if a user typed “help sinc322” at the MATLAB command line, these comments would appear. These comments should also list the author(s). In addition, some comments are placed after certain lines of code to help explain what that line does. Use this as a guide to writing your own code.

```
function z=sinc322(x)
% function z=sinc322(x)
%   This function returns the sinc function. Based on MATLAB's sinc.m.
%   For EE322 students.
%   Author: R.W. Ives, USNA
%   Date: 20 Sep 2004

z=ones(size(x)); % set all OUTputs = 1...this will make sinc(0)=1
i=find(x);       % find all INputs not equal to 0
z(i)=sin(pi*x(i))./(pi*x(i));
    % this last will make sinc(x)=sin(pi*x)/(pi*x) for all values
    %   of the input except x=0, which is already set to 1
```