

# PURDUE UNIVERSITY

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## ECE 364: Software Engineering Tools Laboratory Fall 2007

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**Class:**

F 10:30 AM, Room KNOY B019

**Course Web Page:**

<http://shay.ecn.purdue.edu/~ee364/>

**Instructor:**

Jeff Turkstra, jeff@purdue.edu, Tel. 49-64934.

**Office Hours:** TBA**Teaching Assistants:**

This course has one teaching assistant (TA). The name and email address is given below.

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Kassie Lloyd, klloyd@ecn.purdue.edu

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**Texts:***Required*

The Quick Python Book, Daryl Harms and Kenneth McDonald, Manning, 2000,  
ISBN: 1-884777-74-0

Python Essential Reference, David Beazley, New Riders, 1999,  
ISBN: 0-7357-0901-7

*Optional*

Hands-On KornShell93 Programming, Barry Rosenberg, Addison Wesley, 1999,  
ISBN: 0-201-31018-X

**Course Outcomes:**

These course outcomes require that a student be able to:

1. use KornShell to integrate the input/output of diverse software systems
2. use Python to integrate the input/output of diverse software systems
3. test a Python program for reliability and correctness
4. design modern user interfaces
5. understand and create regular expressions
6. design, use, and incorporate Python classes in programs
7. incorporate associative arrays into programs

You will be given multiple opportunities during your regular lab session as well as the two practicals and project phases to pass each course outcome. You need to pass a given outcome only once. You will satisfy a course outcome when your score for the question equals or exceeds a value we specify as representing minimal competency.

If, as the end of the semester approaches, you are still failing one or more course outcomes you may elect to do a remediation exercise. You are permitted one (1) attempt at the remediation exercise for each course outcome that you are failing.

If, at the end of the semester, you have failed to satisfy one or more of the course outcomes but have a class average above the threshold for a “C” AND have attempted all remediation exercises pertaining to the failing outcome(s), you will receive an incomplete for your class grade. The following semester you will be permitted to take a remediation practical. Assuming that completion of the practical results in the passing of all course outcomes, you will receive a letter grade of “D.” Otherwise, your course grade will revert to an “F.”

All other scenarios resulting from a failed course outcome will result in a final grade of “F.”

### **Rules for ENAD302E lab**

This class occasionally shares the computer resources in this computer lab. Keep the lab clean and quiet as a courtesy to others. You may work on any available computer even when the TAs are not present. The TAs reserve the right to reduce the number of students in the room. Do not expect the TAs to do your work.

### **Class Attendance**

You are expected to attend all classes. Attendance will be recorded for randomly selected class sessions. If you choose to attend class, please arrive in the classroom on time. You are expected to be quiet in class. If you must miss a class, you are responsible for procuring any material, information, handouts, announcements, etc., that you missed.

### **Preparation for Lectures**

You should try to read over the lecture slides for the upcoming lecture before arrival. You are also encouraged to read the relevant pages in the course text(s) as listed in the lecture slides. Additionally, you are expected to check your email, the course website, and the course newsgroup regularly.

### **Prelabs**

Prelabs are assigned usually one per week and are due the following week prior to the start of your lab section. These are Python and KornShell programs that are submitted electronically as well as short answers submitted on paper. To ensure success, **run your code on one of the computers in ENAD302E, a Linux box, (even remotely)**. For full credit, your code must follow the code standard established for this course. The course webpage has the code standard and examples.

If you obtain a score of 90% or higher on the actual laboratory exercises during your lab session, you will automatically receive full credit for that lab’s prelab regardless of your earlier score.

Other important notes on prelabs:

- If you feel you have a valid reason for not having your work done on time, then send one of the TAs an email **BEFORE** the assignment is due. If this is not possible, you should contact the instructor as soon as possible following the incident that caused you to miss the due date.
- Don't wait till the last minute. If the computer goes down so does your grade.
- Down time and crashes of the computer network are **NOT** valid excuses for late or missed prelabs.

### **Labs**

There will be 10 “labs” during the course of the semester. Each lab, in general, will contain four parts. You will have exactly one hour and fifty minutes (the duration of your scheduled lab section) to complete a given lab. During that time you are not permitted to talk to any other student, exchange any information with another student, or access the Internet. Engaging in any of these activities will result in a score of 0 for that lab. The TAs are available during lab to answer any questions you have and to assist you with debugging your code. They are not there to do your work for you.

Other important notes on labs:

- **ALL LAB EXERCISES ARE DUE 1 HOUR AND 50 MINUTES AFTER THE START OF YOUR LAB SECTION – NO EXCEPTIONS!**
- If you are ill or plan to miss lab for any reason, contact your TA **BEFORE** your lab section begins.
- Continuing to work after the time has expired (this includes working on written parts) is academically dishonest and will result in disciplinary action.

### **Quizzes**

There may be occasional, unannounced, 5 to 10 minute quizzes in class. A score of zero will be given for a quiz in case of absence.

### **Practical Exams**

Take note of the exam dates. There will be no makeup exams except for valid emergencies. The student should contact the instructor as soon as possible before the exam. If you have three exams that day, and provide evidence of such, an arrangement can be made to re-schedule the exam if you notify the instructors at least 2 weeks ahead of time. Students missing an exam without permission from the Dean of Students Office will receive a zero.

Practical 1: Week of October 15      ENAD 302E.

Practical 2: Week of December 3      ENAD 302E.

### **Regrades**

During the semester, requests for regrading must be submitted in writing within 5 days of the return of the graded lab or practical. These are submitted to the TAs.

### **Makeups**

Lab make ups provide a way to complete a missed lab (for full credit) that was missed for a valid reason. They must be completed prior to the start of your next lab session. Your first lab make up is "free." We will not ask questions, and we will not require evidence proving the absence was legitimate. Every make up after the first requires documentation establishing the absence to be a valid university-excused absence or some type of emergency (death in the family, illness, etc). Please do not come to lab ill.

### **Redo's**

Lab redo's provide a way to gain up to 50 points and complete course outcomes on labs that you did poorly on. You must have attempted the lab previously to be eligible for a redo. You may only do one redo per lab, and you may not redo projects or practical exams. All redo's are graded on a 50% scale. Ie, your final score is divided by two. If you do worse on a redo than the original lab, you still receive the score obtained on the redo.

### **Academic Honesty**

We expect every member of the Purdue community to practice honorable and ethical behavior in and outside of the classroom. Any action that might unfairly improve a student's score on homework, quizzes, or examinations will be considered cheating, and will not be tolerated. A few examples of cheating are:

1. Submitting work that is not completely your own.
2. Sharing results or notes during quizzes, labs, or practicals.
3. Continuing work on your lab or practical after the time period has expired.
4. Requesting a regrade on an lab or practical problem that has been altered after grading.

Protect your work. All work is subject to computer-based comparison and analysis. If your work is shared with someone, you both are guilty. Cheating on labs or practicals can result in a zero score for the lab or practical, or a reduced or failing grade for the course, at the discretion of the instructor. Instances of academic dishonesty will be reported to the Office of the Dean of Students for further action and possible suspension or expulsion from the University. Bottom line: **DO NOT CHEAT!** It is not worth your academic career. If you are unsure whether a certain act is considered cheating, please ask your instructor.

### **Grading:**

Your course grade will be based on your performance on prelabs, laboratory exercises, quizzes, projects, and practical exams, weighted in the following manner:

10 Lab Exercises: 6 'units' each – 60% \*\*

2 Project Phases: 9 'units' each – 18%

2 Practical Exams: 11 'units' each – 22%

\*\* Of which 5% may be allocated to prelabs, lecture exercises, and quizzes

The final grade is then determined by the following:

<u>Course Average</u>	<u>Course Outcomes</u>	<u>Letter Grade</u>
>= 87% and	= 100%	A
>= 78% and	= 100%	B
>= 69% and	= 100%	C
>= 60% and	= 100%	D
< 60% or	< 100%	F

No curve, no grade quotas.

### **Help**

Help on the general approach to doing the assignments and the course material is available from your instructor and from your TAs. If you cannot meet the instructor or TA during scheduled office hours, separate appointment times may be arranged. Material pertinent to the course will be available on the web. Check the course webpage regularly.

### **Email policies**

If you have questions that pertain to this course or to a particular ECE364 prelab or lab, FIRST check out the course newsgroup. If that resource did not answer your question, then email your question to the class account (email: ee364ta), but do not expect an immediate response. In addition, do not email source code. Emails of this form will only be discarded.

### **Tips for success**

- Start prelab assignments as soon as possible
- Practice with and experiment in writing ksh and Python programs
- Create a cool personal project
- Look at source code available on the Internet