

TIME TABLE: 12337 MWF 01:00 – 01:50 in Lecture Center A room A4 from 08/27/2007 to 12/07/2007.

LAB SESSIONS: To be properly registered, you must enroll in one of the following lab sessions:
12333 Tuesday 2:00-3:50PM SEL 2249F or 12334 Thursday 2:00-3:50PM SES 205B&C
by Kathy Piret (Email: kathywang@math.uic.edu; Office: 1211 SEO).

PREREQUISITES: Credit or concurrent registration in Math 180.

INSTRUCTOR: Jan Vershelde, Office: 1210 SEO, Phone: 312 996 4609.
Email: jan@math.uic.edu. URL: <http://www.math.uic.edu/~jan>.

OFFICE HOURS: On Mon 2PM, Wed 11AM, Fri 10AM, I am sure to be in my office; but feel free to stop by if you have any questions. We can also make an appointment.

TEXT BOOKS: S. Ceri, D. Mandrioli, and L. Sbattella: ‘The Art & Craft of Computing’, Addison-Wesley 1997 and R. Gupta: ‘Making Use of Python’, Wiley 2002.

MCS 260 SITE: See <http://www.math.uic.edu/~jan/mcs260.html> for changes in syllabus, project descriptions, links to resources, etc...

HOMEWORK: Selected homework problems are assigned with each lecture, but it is recommended that you try all homework problems.

QUIZZES: There will be a quiz at the end of every lab session. Every quiz is worth 10 points. There will be no makeup quizzes. If you miss a quiz or if your performance is bad, you can turn (at to be determined dates) in the assigned homework to regain some of the points lost.

PROJECTS: Five projects will be assigned during the semester, worth each 40 points, for a total of 200 points. The deadline for each project falls at 1PM, before the lecture starts. Late submissions are accepted till 5PM the same day, but are penalized with 10 points off. Note that late correct projects may thus then still be worth more than incorrect but timely submitted programs.

ACADEMIC HONESTY: No student shall claim or submit the work of another as ones own. You may discuss homework and projects with others, but must finish it and write the solution yourself without looking at others’ work. Allowing someone to copy from you is also punishable.

EXAMS: During the semester, there will be two exams worth 100 points each. There will be no makeup exams given. The final exam counts for 200 points. If an exam is missed, then greater weight will be placed on the final exam, especially on the material covered on the missing exam.

GRADING SCALE: 90 – 100% = A, 80 – 89% = B, 70 – 79% = C, 60 – 69% = D, 0 – 59% = E.
Your course grade is based on a total of 700 points: 100 from the quizzes, 200 from the projects, 200 from the exams during the semester, and 200 from the final exam.

STUDENTS WITH DISABILITIES who require accommodations for access and participation in this course must be registered with the Office of Disability Services (ODS). Please contact ODS at 312/413-2183 (voice) or 312/413-0123 (TTY).

CLASS ATTENDANCE: Students are expected to attend all class meetings. Any changes in this syllabus or in the scheduling of exams and other assignments will be announced during class meetings. While the lectures cover the same materials in the text book, usually other examples will be presented and discussed. We will also address the topics you need to implement the projects.

SOME IMPORTANT DATES:

Monday 3 September : Labor Day.
Friday 7 September : last day to drop the class.
Friday 5 October : last day to withdraw from the class.
Thursday 22 – Friday 23 November : Thanksgiving
Monday 10 December, 1:00PM-3:00PM : Final examination.

COURSE OUTLINE – subject to changes :

- L-1 Mon 27 Aug welcome to mcs 260
- L-2 Wed 29 Aug first steps with Python
- L-3 Fri 31 Aug computer architecture
- Mon 3 Sep **Labor Day – no classes**
- L-4 Wed 5 Sep numbers, variables, and assignments
- L-5 Fri 7 Sep strings, lists, and tuples
- L-6 Mon 10 Sep hash tables and dictionaries
- L-7 Wed 12 Sep input and output formats

Project one due by 1PM, Friday 14 September

- L-8 Fri 14 Sep string manipulations
- L-9 Mon 17 Sep stacks and queues
- L-10 Wed 19 Sep control structures
- L-11 Fri 21 Sep loop statements
- L-12 Mon 24 Sep designing and verifying loops
- L-13 Wed 26 Sep top down design of programs

Project two due by 1PM, Friday 28 September

- L-14 Fri 28 Sep arguments of functions
- L-15 Mon 1 Oct lambda forms
- L-16 Wed 3 Oct review for first midterm
- L-17 Fri 5 Oct **first midterm exam**
- L-18 Mon 8 Oct bottom up design of programs
- L-19 Wed 10 Oct modules in Python
- L-20 Fri 12 Oct modules and packages
- L-21 Mon 15 Oct files: organization and use
- L-22 Wed 17 Oct methods of file objects
- L-23 Fri 19 Oct directory methods

Project three due by 1PM, Monday 22 October

- L-24 Mon 22 Oct object-oriented programming
- L-25 Wed 24 Oct classes and objects
- L-26 Fri 26 Oct inheritance and wrapping
- L-27 Mon 29 Oct verification techniques
- L-28 Wed 31 Oct exception handling
- L-29 Fri 2 Nov complexity analysis of algorithms
- L-30 Mon 5 Nov graphical user interfaces

Project four due by 1PM, Wednesday 7 November

- L-31 Wed 7 Nov GUI programming with Tkinter
- L-32 Fri 9 Nov creating a GUI application
- L-33 Mon 12 Nov review for second midterm
- L-34 Wed 14 Nov internet basics
- L-35 Fri 16 Nov **second midterm exam**
- L-36 Mon 19 Nov introduction to CGI
- L-37 Wed 21 Nov databases
- Fri 23 Nov **Thanksgiving holiday – no classes**
- L-38 Mon 26 Nov computer networks
- L-39 Wed 28 Nov multithreaded programming
- L-40 Fri 30 Nov web servers
- L-41 Mon 3 Dec Review of the first 15 lectures

Project five due by 1PM, Wednesday 5 December

- L-42 Wed 5 Dec Review of lectures 18 to 32
- L-43 Fri 7 Dec Review of lectures 35 to 40

Monday 10 December, 1:00PM–3:00PM : Final Exam – room to be announced.