CSCI 3210: Theory of Programming Languages  
Spring 2016

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Office Hours:  
Monday & Wednesday: 9:30 – 10:00 & 1230 – 1600  
Friday: 1230 – 1500  
Other times by appointment

Course Information:  
Requirement textbook:  
Concepts of Programming Languages, 10th edition, by Robert W. Sebesta

Chapters will be covered in an appropriate sequence – not necessarily in the sequential order.  
Other supplemental material deemed necessary by the instructor will be provided and covered in assignments and exams.

Course webpage: http://www.cs.mtsu.edu/~zdong/3210

Covered concepts: Topics include design and implementation of most common language constructs like type, control flow, function, parameter passing, object orientation, and storage management.

Learning outcomes: Upon successful completion of this course, a student will be able to  
- recognize major programming language  
- explain the stages of programming language interpretation and compilation  
- explain design concepts, design alternatives and trade-offs, and implementation considerations for scope, binding, data types, expressions, control structures, subprograms, objects in modern programming languages  
- understand the principles of language design and implementation  
- choose a suitable programming language for a given problem or domain  
- evaluate modern programming languages critically  
- quickly become productive in a new language

Course Assignments  
Presentation: 5%  
Projects (4 - 7): 30%  
Midterm Exams (3): 45% (15% each)  
Final Exam: 20%  
Total: 100%
Grading scale

Letter grades will be determined using a standard percentage point evaluation as outlined below.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>90% - 100%</td>
</tr>
<tr>
<td>B+</td>
<td>85% - 89%</td>
</tr>
<tr>
<td>C+</td>
<td>75% - 79%</td>
</tr>
<tr>
<td>D+</td>
<td>65% - 69%</td>
</tr>
<tr>
<td>F</td>
<td>0% - 59%</td>
</tr>
<tr>
<td>B</td>
<td>80% - 84%</td>
</tr>
<tr>
<td>C</td>
<td>70% - 74%</td>
</tr>
<tr>
<td>D</td>
<td>60% - 64%</td>
</tr>
</tbody>
</table>

Your final grades will be calculated based on the above tables with the following exceptions:

- The project grade cannot raise the test grade more than two levels. For example, if your average grade of all exams is C, then the highest final letter grade you can get is B (i.e. C --> C+ --> B).
- If the exam average is an F, then the course grade is an F.
- If the project average is an F, then the course grade is an F.
- A grade of zero on two or more project assignments automatically results in a course of F.

Project

Projects are designed for solving problems assigned without direct teacher supervision. You will go to the lab at your own convenience and solve the assigned problem at your own pace.

Programs are graded based upon design, correctness, documentation, style, efficiency, elegance, and adherence to requirements. You must design, write, implement, and debug your own programs. You may discuss with others high level details of program design and implementation. However, following situations are not allowed and will be treated as cheating:

- Show to or acquire from other students any materials related with assignments such as source code and documentation, no matter with intention or not, no matter in which form these materials are presented.
- Help or seeking help from other students to debug programs. However, you may get help from lab assistant or instructor.
- Copy, or refer to source code from internet, other students' homework or other source (excludes textbook or materials provided by instructor), no matter with citation or not. All source code must be original.

Class Policies

Cell Phone: Please silence all cell phones and beepers. If the lecture is interrupted by a cell phone or beeper, the student will answer a question later in the class.

Attendance: Attendance is expected and absences do not excuse one from class responsibilities. If for some unavoidable reason you must miss class, obtain class notes, handouts, and assignments from another class member or course webpage. Students can earn up to 2 bonus points if they are "active" enough, i.e. asking and answering questions in the class.
Exams: Examinations must be taken at the published times. No make-up exams will be offered unless there is an unavoidable extenuating circumstance (at the discretion of the instructor).

Grade: It is guaranteed that you will get at least 20% points for any homework or project you submit. Each homework/project has ONE deadline only. No submission will be accepted after the deadline.

Final Exam: Students can opt out the final exam if he or she get 70% or above on EVERY homework, project, and exam. His or her final grades will be the letter grade provided by instructor based on the past performance.

Zero Tolerance of Academic Misconduct: The class has a zero tolerance policy of academic misconduct. Academic misconduct includes cheating, plagiarizing, research misconduct, misrepresenting one’s work, and inappropriate collaborating. This applies to any work students turn in for evaluation or course credit. Definitions can be found at: http://www.mtsu.edu/~csdept/Academics/academicIntegrity.htm. If a student is found responsible for committing an act of academic misconduct, he/she will get F on this course and will be reported to the university. If you are working on a lab machine, make sure your work is stored under your personal account so that other students cannot access it.

General Policy:

- Each student is responsible for checking for updates/modifications/etc. on the class web page http://www.cs.mtsu.edu/~zdong/3210 frequently.
- Each student is responsible for checking class email regularly.
- Each student is responsible for checking class calendar regularly.
- Emails from non-mtsu account will not be replied if the instructor thinks the reply may leak student personal information such as name, or grade.

University Policies

Lottery Scholarship: Do you have a lottery scholarship? To retain Tennessee Education Lottery Scholarship eligibility, you must earn a cumulative TELS GPA of 2.75 after 24 and 48 attempted hours and a cumulative TELS GPA of 3.0 thereafter. You may qualify with a 2.75 cumulative GPA after 72 attempted hours (and subsequent semesters), if you are enrolled full-time and maintain a semester GPA of at least 3.0. A grade of C, D, F, FA, or I in this class may negatively impact TELS eligibility. Dropping or stopping attendance in a class may also impact eligibility; if you withdraw from or stop attending this class and it results in an enrollment status of less than full time, you may lose eligibility for your lottery scholarship. Lottery recipients are eligible to receive the scholarship for a maximum of five years from the date of initial enrollment, or until reaching 120 TELS attempted hours or earning a bachelor degree. For additional Lottery rules, please refer to your Lottery Statement of Understanding form (http://www.mtsu.edu/financial-aid/forms/LOTFOD.pdf) or contact your MT One Stop Enrollment Counselor (http://www.mtsu.edu/one-stop/counselor.php).

Academic Misconduct: It is expected that all work for this class (including exams, homework and open labs) is your own. The university policy for academic misconduct will be followed. Academic misconduct includes the following behaviors:
Plagiarism. The adoption or reproduction of ideas, words, statements, images, or works of another person as one's own without proper acknowledgement.

Cheating. Using or attempting to use unauthorized materials, information, or study aids in any academic exercise. The term academic exercise includes all forms of work submitted for credit or hours.

Fabrication. Unauthorized falsification or invention of any information or citation in an academic exercise.

Facilitation. Helping or attempting to help another to violate a provision of the institution code of academic misconduct.

For more information, please refer to the following links:
http://www.mtsu.edu/~csdept/Academics/academicIntegrity.htm

Unofficial Withdrawals: Federal regulations require that students who cease class attendance but do not officially withdraw from the University must be reported so that future financial aid will cease and/or the student will be required to return funds. Therefore, during the term I will be required to complete a roster indicating those students who have stopped attending class without officially withdrawing. Faculty members are not required to check attendance each day; however, you may use project submission deadlines, exams, quizzes, advising appointments, or other methods I choose may be used to determine unofficial withdraws.

Student with Disabilities: Students with documented disabilities are entitled to reasonable accommodations if needed. If you believe you need accommodations, please see me and the Office of Disabled Student Services (898-2783). No accommodations will be made unless verified by the Office of Disabled Student Services. For more information about the office, please check their website: http://www.mtsu.edu/dssemail/.

This syllabus represents a general plan for the course and deviations from this plan may be necessary during the duration of the course. I reserve the right to modify course policies, the course calendar, assignment point values, and due dates.