

Course Syllabus

CS430.01/CS560.03 Language Translators

Spring 2008, 3 Credit Hours

Location / Time AB1 209, 9:00 – 9:50 A.M. MWF

Instructor: David Burris, Ph.D., CCP, CSP

Office: AB1-212C

Phone / web: 294-1568, csc_dsb@shsu.edu
Course information is available via Blackboard

Office Hours: 8-10 TTH, 2-3 MW, others by appointment. I am actually on campus most of the time. I may not always be able to stop what I am doing, but you are free to drop by any time you need help.

Departmental Course Objective: The design and implementation of assemblers, compilers, and interpreters is explored. Application of techniques developed for language translators to other fields in computing, business and scientific / engineering applications are emphasized.

Instructor Specific Objectives:

Text: No text is required for this course. All material utilized in class is available on Blackboard. Students are urged to make a copy of the class notes in facilities operated by university Computer Services. Notes should be bound for use in class. The instructor retains all copyright privileges to instructional materials. Students registered for the class are authorized to make a copy of instructional material for their own use to complete the course. Instructional materials may not be distributed in part or whole to others without the expressed written approval of the instructor.

A large number of text are covered during the class. Authors, titles, and additional information will be made at the appropriate time in case the student desires to obtain the actual source material for their private collection. Additional reading/research materials will be introduced during class for those wishing to expand their education.

Required Supplies: None.

Option Texts / Supplies: It is convenient but not necessary to have your own computer and software. Access to free, inexpensive, and commercial suggested software is available on Blackboard. Language manuals related to software are listed on Blackboard.

Attendance Policy: Students are encouraged to attend all classes, but absences will not be used in computing the course grade. *A zero will be recorded for all work missed due to absence unless arrangements to complete missed work are made prior to the class that is missed.*

Assignments: All assignments are posted on Blackboard. It is the student's responsibility to check Blackboard sufficiently often to obtain class assignments. New course materials are also made available to students via Blackboard. Assignments and other notifications are frequently emailed via Blackboard to "university email accounts" of students officially registered for the course. Private email accounts will not be utilized for course communications.

Tentative test dates: Wednesday February 20, Monday March 17, Wednesday April 16, and the final.

Grading: Three to four equally weighted exams will be administered during the semester including the final exam. Exams will constitute 50% of the course grade. The final exam will be comprehensive. The homework and labs (including the semester project) will constitute 50% of the final grade. In the event a student scores higher on the final exam than one of the regular tests, the lowest regular test grade, will be dropped and the grade on the final exam doubled, *provided all other assignments (homework and lab) have each been completed with a grade of 70 or higher on each assignment*. The final exam grade may not be dropped. Note you must complete homework assignments to have the potential privilege to drop a test grades. Homework is not optional and may not be submitted late without making special arrangements prior to the due date.

Under no circumstances will a course grade higher than a "C" be awarded to a student not making at least a "C" on each homework assignments and the lab. The lab will be assigned in segments during the semester. The final product will be a single grade for a working language translator. Programs authored by the instructor and course participants (written in the language developed for the course) will be translated and executed via the lab you submit for your final grade. To receive a "C" on the lab, your translator written to course specifications, must successfully translate the assigned source code and the resulting executable function properly on the computer. The student will be given a great deal of flexibility in selecting the programming language and operating system environment utilized to develop the language translator. Ada, C++, ICON, and Java will be utilized to demonstrate key ideas. Linux and Windows are suitable development platforms. The instructor must approve the selection of

programming language and operating system used to implement the lab. Note that writing a language translator is primarily character manipulation.

The scale of A = 90-100, B = 80-89, C = 70-79, D = 60-69, F= below 60 will be used. Assignments are due at the start of class. Once class starts, anything turned in will be graded as "late" work. Assignments given to the departmental secretaries, placed in my mailbox, etc., will not be graded. All work must be given to me personally.

A file of selected tests administered in previous semesters will be made available. Students may utilize this resource if desired in preparing for exams.

Copies of graded test and labs may be retained to meet department accreditation requirements.

Academic Integrity: All students are expected to engage in all academic pursuits in a manner that is above reproach. Students are expected to maintain complete honesty and integrity in the academic experiences both in and out of the classroom. Any student found guilty of dishonesty in any phase of academic work will be subject to disciplinary action. The University and its official representatives may initiate disciplinary proceedings against a student accused of any form of academic dishonesty including, but not limited to, cheating on an examination or other academic work which is to be submitted, plagiarism, collusion, submitting the work of a tutor, and the abuse of resource materials.

Assignments made from one semester to the next are similar of necessity. Assignments are developed with the goal of providing a student with the opportunity to develop the desired level of intellectual achievement while not over burdening the student with excessive work. The use of work done by other students past or present will be construed as cheating. **No student should have in their possession or utilize tests, homework, labs, materials obtained from tutors, materials obtained online, or materials completed by students in previous semesters!** "Any" verifiable instance of cheating will normally result in a grade of **"F" for the course for all individuals involved.** Students should not have in their possession labs or tests belonging to other students from the current or previous semesters.

Students from previous semesters providing materials to students in following semesters will be subject to all disciplinary actions provided by the university. For a complete listing of the university policy, see:

<http://www.shsu.edu/administrative/faculty/sectionb.html#dishonesty>

Classroom Rules of Conduct: University policy states students will refrain from behavior in the classroom that intentionally or unintentionally disrupts the learning process and, thus, impedes the mission of the University. Cellular telephones and pagers and other disruptive devices must be turned off prior to

the start of class. Students are prohibited from eating in class, using tobacco products, making offensive remarks, reading newspapers, sleeping, talking at inappropriate times, wearing inappropriate clothing, or engaging in any other form of distraction. Inappropriate behavior in the classroom shall result in a directive to leave class. Students who are especially disruptive will be subject to removal by University Police and / or reported to the Dean of Students for disciplinary action in accordance with university policy.

Visitors in the Classroom:

Only registered students may attend class. Exceptions can be made on a case-by-case basis by the professor. In all cases, visitors must not present a disruption to the class by their attendance. Students wishing to audit a class must apply to do so through the Registrar's Office.

Americans with Disabilities Act:

It is the policy of Sam Houston State University that individuals otherwise qualified shall not be excluded, solely by reason of their disability, from participation in any academic program of the university. Further, they shall not be denied the benefits of these programs nor shall they be subjected to discrimination. Students with disabilities that might affect their academic performance are expected to visit with the Office of Services for Students with Disabilities located in the Counseling Center. They should then make arrangements with their individual instructors so that appropriate strategies can be considered and helpful procedures can be developed to ensure that participation and achievement opportunities are not impaired.

SHSU adheres to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable accommodations for students with disabilities. If you have a disability that may affect adversely your work in this class, then I encourage you to register with the SHSU Counseling Center and to talk with me about how I can best help you. All disclosures of disabilities will be kept strictly confidential. NOTE: No accommodation can be made until you register with the Counseling Center. For a complete listing of the university policy, see:

http://www.shsu.edu/~vaf_www/aps/811006.html

Religious Holidays:

Section 51.911(b) of the Texas Education Code requires that an institution of higher education excuse a student from attending classes or other required activities, including examinations, for the observance of a religious holy day, including travel for that purpose. Section 51.911 (a) (2) defines a religious holy day as: "a holy day observed by a religion whose places of worship are exempt from property taxation under Section 11.20...." A student whose absence is excused under this subsection may not be penalized for that absence and shall be allowed to take an examination or complete an assignment from which the student is excused within a reasonable time after the absence.

University policy 861001 provides the procedures to be followed by the student and instructor. A student desiring to absent himself/herself from a scheduled class in order to observe (a) religious holy day(s) shall present to each instructor involved a written statement concerning the religious holy day(s). The instructor will complete a form notifying the student of a reasonable timeframe in which the missed assignments and/or examinations are to be completed. For a complete listing of the university policy, see:

http://www.shsu.edu/~vaf_www/aps/documents/861001.pdf

Updated: December 25, 2007