Instructor Information

Instructor(s):
Shawn N. Gieser, Ph.D.

Office Number:
ERB 502

Office Telephone Number:
817-272-3785 (CSE Main Office)

Email Address:
Canvas Inbox Only

Faculty Profile:
https://mentis.uta.edu/explore/profile/shawn-gieser

Office Hours:
Tuesday / Thursday 9:30am – 11:00am

Course Information

Section Information:
CSE 2312 - 001

Time and Place of Class Meetings:
Tuesday / Thursday 12:30pm – 1:50pm, Nedderman Hall (NH) 110

Description of Course Content:
Computer organization from the viewpoint of software, including: the memory hierarchy, instruction set architectures, memory addressing, input-output, integer and floating-point representation and arithmetic. The relationship of higher-level programming languages to the operating system and to instruction set architecture are explored. Some programming in an assembly language. Prerequisite: CSE 1320.

Student Learning Outcomes:
Upon successful completion of this course, students will understand the design concepts used to establish the interface between hardware and software in modern computer systems. Students will also be able to solve problems with assembly language programming while understanding the advantages and disadvantages of various approaches.

Required Textbooks and Other Course Materials:
- Raspberry Pi Model 3 B or B Plus, or an emulator

Descriptions of major assignments and examinations:
The final letter grade for this course will be based on scores received on regular homework and programming assignments, online quizzes, a midterm exam, and a final exam. Homework and programming assignments are to be submitted electronically via Canvas. Late assignments will not be accepted. All assignments are expected to be done individually.
**Grading Information**

**Grading:**
Final course grades will be computed as follows:

- Homework Assignments: 25%
- Programming Assignments: 25%
- Quizzes: 10%
- Midterm Exam: 20%
- Final Exam: 20%

**2-Week Grade Grievance Policy:**
Once a grade has been posted, you will have 2 weeks to contest your grade with whoever graded that assignment. The GTA will grade the Homework, and the Instructor will grade quizzes and exams. Once a grade has been posted for 2 weeks, the grade is final and will not be changed.

**Make-up Exams:**
Make-up exams will only be allowed under extraordinary circumstances and must be approved by the instructor, whose decision is final. If an exam is missed due to unavoidable circumstances, the instructor must be notified of the situation as soon as possible. Travel will not be considered as a valid excuse for missing an exam, unless for the purpose of representing the university or department. Any exams that are missed due to unexcused reasons will receive an automatic grade of zero.

**Cheating:**
Dr. Gieser has zero tolerance for cheating, plagiarism, and collusion. All suspected cases will result in an automatic zero on the assignment, a decrease in ten points in the student's overall grade, and a referral to Student Conduct. Your grade will also not be curved, and not extra credit will be applied to your grade. You will be notified before the paperwork to student conduct is turned in and have an opportunity to meet with the instructor. If Student Conduct finds that no violation of Academic Integrity has occurred, your grade will be restored.

**Institution Information**

UTA students are encouraged to review the below institutional policies and informational sections and reach out to the specific office with any questions. To view this institutional information, please visit the [Institutional Information](http://www.uta.edu/provost/administrative-forms/course-syllabus/index.php) page which includes the following policies among others:

- Drop Policy
- Disability Accommodations
- Title IX Policy
- Academic Integrity
- Student Feedback Survey
- Final Exam Schedule
Additional Information

Attendance:
At The University of Texas at Arlington, taking attendance is not required but attendance is a critical indicator of student success. Each faculty member is free to develop his or her own methods of evaluating students’ academic performance, which includes establishing course-specific policies on attendance. As the instructor of this section, I will be taking attendance periodically throughout the semester, but it will not count for the grade. However, while UT Arlington does not require instructors to take attendance in their courses, the U.S. Department of Education requires that the University have a mechanism in place to mark when Federal Student Aid recipients “begin attendance in a course.” UT Arlington instructors will report when students begin attendance in a course as part of the final grading process. Specifically, when assigning a student a grade of F, faculty report must the last date a student attended their class based on evidence such as a test, participation in a class project or presentation, or an engagement online via Canvas. This date is reported to the Department of Education for federal financial aid recipients.

Emergency Exit Procedures:
Should we experience an emergency event that requires evacuation of the building, students should exit the room and move toward the nearest exit. When exiting the building during an emergency, do not take an elevator but use the stairwells instead. Faculty members and instructional staff will assist students in selecting the safest route for evacuation and will make arrangements to assist individuals with disabilities.

Student Support Services:
UT Arlington provides a variety of resources and programs designed to help students develop academic skills, deal with personal situations, and better understand concepts and information related to their courses. Resources include tutoring by appointment, drop-in tutoring, mentoring (time management, study skills, etc.), major-based learning centers, counseling, and federally funded programs. For individualized referrals, students may call the Maverick Resource Hotline at 817-272-6107, send a message to resources@uta.edu, or view the information at Resource Hotline (http://www.uta.edu/studentsuccess/success-programs/programs/resource-hotline.php).

IDEAS Center:
The IDEAS Center (https://www.uta.edu/ideas/) (2nd Floor of Central Library) offers FREE tutoring and mentoring to all students with a focus on transfer students, sophomores, veterans and others undergoing a transition to UT Arlington. Students can drop in or check the schedule of available peer tutors at www.uta.edu/IDEAS, or call (817) 272-6593.

The English Writing Center (411LIBR):
The Writing Center offers FREE tutoring in 15-, 30-, 45-, and 60-minute face-to-face and online sessions to all UTA students on any phase of their UTA coursework. Register and make appointments online at the Writing Center (https://uta.mywconline.com). Classroom visits, workshops, and specialized services for graduate students and faculty are also available. Please see Writing Center: OWL for detailed information on all our programs and services.

The Library’s 2nd floor Academic Plaza (http://library.uta.edu/academic-plaza) offers students a central hub of support services, including IDEAS Center, University Advising Services, Transfer UTA and various college/school advising hours. Services are available during the library’s hours of operation.

Librarian to Contact:
Each academic unit has access to Librarians by Academic Subject that can assist students with research projects, tutorials on plagiarism and citation references as well as support with databases and course reserves.
Emergency Phone Numbers

In case of an on-campus emergency, call the UT Arlington Police Department at 817-272-3003 (non-campus phone), 2-3003 (campus phone). You may also dial 911. Non-emergency number 817-272-3381

Library Information

Research or General Library Help
Ask for Help
- Academic Plaza Consultation Services (library.uta.edu/academic-plaza)
- Ask Us (ask.uta.edu/)
- Research Coaches (http://libguides.uta.edu/researchcoach)

Resources
- Library Tutorials (library.uta.edu/how-to)
- Subject and Course Research Guides (libguides.uta.edu)
- Librarians by Subject (library.uta.edu/subject-librarians)
- A to Z List of Library Databases (libguides.uta.edu/az.php)
- Course Reserves (https://uta.summon.serialssolutions.com/#!/course_reserves)
- Study Room Reservations (openroom.uta.edu/)
As the instructor for this course, I reserve the right to adjust this schedule in any way that serves the educational needs of the students enrolled in this course. – Shawn N Gieser

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<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>HW</th>
<th>Due</th>
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<tbody>
<tr>
<td>22-Aug</td>
<td>Syllabus, Chapter 1 part 1</td>
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<tr>
<td>27-Aug</td>
<td>Chapter 1 part 2</td>
<td>Hw1</td>
<td>3-Sep</td>
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<tr>
<td>29-Aug</td>
<td>Chapter 2 part 1</td>
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<td>3-Sep</td>
<td>Chapter 2 part 2</td>
<td>Hw2</td>
<td>10-Sep</td>
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<td>5-Sep</td>
<td>Chapter 3</td>
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<td>10-Sep</td>
<td>Chapter 4 part 1</td>
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<td>12-Sep</td>
<td>Chapter 4 part 2</td>
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<td>17-Sep</td>
<td>Chapter 4 part 3</td>
<td>Hw3</td>
<td>24-Sep</td>
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<td>19-Sep</td>
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<td>24-Sep</td>
<td>Chapter 5 part 1</td>
<td>Hw4</td>
<td>1-Oct</td>
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<td>26-Sep</td>
<td>Chapter 5 part 2</td>
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<tr>
<td>1-Oct</td>
<td>Exam Review</td>
<td>Study</td>
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<td>3-Oct</td>
<td>Catch Up Day (Canceled if not needed)</td>
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<td>8-Oct</td>
<td>Exam 1</td>
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<td>10-Oct</td>
<td>Intro to ARM assembly</td>
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<td>15-Oct</td>
<td>Pass back exams, Compiling, Assembling, Linking, Loading</td>
<td>Prog 1</td>
<td>22-Oct</td>
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<td>17-Oct</td>
<td>Numeric Representation</td>
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<td>22-Oct</td>
<td>Debugging</td>
<td>Prog 2</td>
<td>29-Oct</td>
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<td>24-Oct</td>
<td>Input/Output Part 1</td>
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<td>29-Oct</td>
<td>Input/Output Part 2</td>
<td>Prog 3</td>
<td>5-Nov</td>
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<td>31-Oct</td>
<td>Arithmetic and logic operations part 1</td>
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<td>5-Nov</td>
<td>Arithmetic and logic operations part 2</td>
<td>Prog 4</td>
<td>12-Nov</td>
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<td>7-Nov</td>
<td>Functions and Conditional Execution Part 1</td>
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<td>12-Nov</td>
<td>Functions and Conditional Execution Part 2</td>
<td>Prog Final</td>
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<td>14-Nov</td>
<td>Floating Point Operations Part 1</td>
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<td>Floating Point Operations Part 2</td>
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<td>21-Nov</td>
<td>Addressing Part 1</td>
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<td>26-Nov</td>
<td>Addressing Part 2</td>
<td>Study</td>
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<td>28-Nov</td>
<td>Thanksgiving Holiday - No Class</td>
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<td>3-Dec</td>
<td>Exam Review</td>
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<td>5-Dec</td>
<td>Finals Week - No Class</td>
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<td>10-Dec</td>
<td>Exam 2 - 11:00 AM - 1:30 PM</td>
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Important Dates:
- First day of Class – August 21st
- Census Date – September 6th
- Drop Date – November 1st 4:00 PM
- Registration for Spring 2020 – November 8th
- Last Day of Classes – December 4th
- Finals – December 5th – December 11th