CIS 343 - Structure and Function of Programming Languages

Instructor Information

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Mr.W. on Discord (Join CIS server with https://discord.gg/67jpNW6).
Mackinac D-2-238

- MWF 9:00 - 10:00 a.m.
- Zoom by appointment

Course Description

Language definition structure. Data types and structures. Control structures and data flow. Lexical analysis and parsing. Interpretive languages. Run time considerations. Survey of programming languages. (3-0-0) Offered winter semester.

Prerequisite

Admitted to major.

Course Materials

- *Concepts of Programming Languages*, 10th, 11th, or 12th Edition by Robert Sebesta. Pearson. The book is the best resource for this class. **I assume you are reading the chapters and will quiz and test you accordingly.**
- Other materials provided by the instructor.

Course Objectives

- Analysis/Examine:
  - Examine issues in language analysis and parsing

- Adaptation/Develop:
  - Develop programs using three programming paradigms

- Comprehension/Describe:
  - Describe three major programming paradigms

- Analysis/Compare:
  - Compare issues in language analysis and parsing

Instructor's Expectations

The instructor expects students to

1. Attend all class meetings.
2. Do the work on time.
3. Never, ever, ever cheat. We will talk about what is and isn't cheating. (Using an AI assistant when your prof says not to is *always* cheating).

4. Treat everyone else with respect.
5. Communicate regularly and come to office hours.
6. Participate in class.

Special Needs

I cannot help you if you don't advise me of your needs. I must be aware of issues before they become problems. I fully support the university DSR policies and I *want* you to be successful. You must do your part and communicate with me.

Grading

The following grading scale will be used:

- A   >=93
- A- >=90
- B+ >=87
- B   >=84
- B- >=80
- C+ >=77
- C   >=73
- C- >=70
- C+ >=67
- D   >=60
- F   <60

The breakdown of grading will be:

- **Homework/Quizzes/Attendance/Participation** 10%
- **Language Projects** 11% each * 5 = 55%
- **Midterm** 15%
- **Final Exam** 20%

Submissions and Late Policy

I am extremely busy. I have a home I keep up with, four boys I *attempt* to keep up with, a full-time job that I try to perform at a high level, and I'm working on finishing a Ph.D. I still find time to play games, watch tv, and have coffee with friends.

What this means is that when you tell me you don't have time to complete work, I probably can't believe it. Choosing to come to university is a big choice and it deserves your full attention. You aren't here just to "get that piece of paper"; you need to learn. That sometimes means sacrificing your free time. I depend on you to be at your best when I am teaching. Group members deserve your best when you are working with them. Do your part, and turn things in on time.

Late work can lose 10% of possible points per business day (weekends count as a single day). This means a week late has a max of 50% value, and after two weeks no points are left.

University Policies

Disability Support Resources

If you need accommodations because of a learning, physical, or other disability, please contact your instructor and Disability Support Resources (gvsu.edu/dsr/) at 616.331.2490. Furthermore, if you have a physical disability and think you will need assistance evacuating this classroom and/or building in an emergency situation, please make me aware so I can develop a plan to assist you.

Assistive technology computers are available in many GVSU computer labs (gvsu.edu/dsr/accessible-computer-labs-68.htm). Also, Blackboard has a commitment to accessibility statement (blackboard.com/accessibility.aspx) providing information about accessibility in all of their products.

Student Code of Conduct

Standards of conduct (gvsu.edu/studentcode) are established in order to generate an atmosphere in which the goals and objectives of the institution can flourish. Individual rights can only be ensured with acceptance of individual and group responsibilities and respect for the rights of others. Individuals attending GVSU automatically place themselves under the applicable rules and regulations of the institution.

Academic Integrity

All course assignments, learning activities, and assessments, are to be authored and completed individually, by the student themselves. Failure to be able to correctly cite, explain and defend your submissions is an indication that it is not your work. While assisting another student in learning is part of the academic process, completing the assigned work as a team or group effort (with the exception of group projects as assigned by the instructor) is not allowed and will be considered Academic Dishonesty. No Academic Dishonesty will be tolerated and such activity may result in failure of a specific assignment, an entire course, or, if flagrant, dismissal from Grand Valley. For further information see the Student Code, and the consequences include penalties established by GVSU's Academic Integrity policy (gvsu.edu/conduct/academic-integrity-14.htm).

Campus Emergencies

In case of fire, immediately proceed to the nearest exit during a fire alarm. Use a staircase, not an elevator. To sign up for campus emergency alerts and to access more information, please visit the GVSU Emergency website (gvsu.edu/emergency).

Learning Resources

See the "Help & Support" section of Blackboard for help with using Blackboard; a link to the Blackboard Student Mobile App and Blackboard IM; GVSU computer lab hours and locations; GVSU IT HelpDesk (gvsu.edu/it/helpdesk/); accessibility and Disability Support Resources (gvsu.edu/dsr/).

Changes to the Syllabus

The instructor reserves the right to change the contents of this syllabus. Students will be given notice of relevant changes in class, through a Blackboard announcement, or through GVSU e-mail.

Important Dates

https://www.gvsu.edu/registrar/current-future-academic-calendars-80.htm