

CSCI 101 Introduction to Computer Science Profession

Department of Engineering and Computer Science
Virginia State University, Petersburg, Virginia

Fall 2016

Instructor	Hui Chen, Ph.D.	Office Phone	(804)524-5428
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Office Hours	08:00 – 10:00 Monday 08:00 – 09:00 Wednesday 11:00 – 12:00 Friday and by appointment		08:00 – 10:00 Friday

Class Meeting and Location

01:00 – 01:50PM Wednesday, August 15 – December 5, 2016 HM 14S

Description

This course provides an introduction to the computer science professions. Basic skills and qualities such as collaborative learning, effective communications, and computer science codes of ethics will be introduced.

Co-requisites: CSCI 150 and 151 Programming I with Lab

Textbook

1. Glenn Glenn Brookshear and J. Glenn Brookshear. 2015. Computer Science: An Overview (12th ed.). Addison-Wesley Longman Publishing Co., Inc., Boston, MA, USA.

Additional Reading

- ACM <http://www.acm.org>
- IEEE Computer Society: <http://www.computer.org>
- ACM Computing Career Website: <http://computingcareers.acm.org>
- ACM Code of Ethics: <http://www.acm.org/about/code-of-ethics>
- ACM and IEEE Computer Society Software Engineering Code of Ethics: <http://www.acm.org/about/se-code>

Major Topics

- VSU Computer Science Curriculum
- Advising process
- ACM Code of Ethics
- Computing career paths
- Computer Science research areas
- Professional conduct
- Lifelong learning

Course Learning Outcomes

At the conclusion of this course, students are expected to be able:

- to be familiar with the requirements of the Computer Science curriculum and Department,
- to have been introduced to the variety of computing professions available to them,
- to be exposed to skills and resources for being successful students at VSU,
- to be familiar with the ACM Code of Ethics,
- and to understand the importance of lifelong learning and be introduced to strategies for accomplishing this.

Class Participation

Students' attendance and active class participation are expected and required. Students are also expected to maintain appropriate affect and demeanor.

Disability Services

The Americans with Disability Act (ADA) is intended to insure that students have equal access to the campus and course materials. The instructor will work with the students with Disabilities program to provide reasonable accommodation to students with disabilities. Please contact the Office of Disable Students Services at (804)524-5061.

Access to Course Material and Grades

The instructor uses Blackboard (<http://blackboard.vsu.edu>) to post students' grades of submitted work. The University use the Banner system to post midterm and final grades.

The instructor maintains a class website to disseminate course lecture nodes, exercises, projects, and other course related material. The website is at <http://huichen-cs.github.io/course/CSCI101>.

The instructor advises that students check often Blackboard, the class website and Banner for any class updates and their performance in the class.

Course Plan

1. Discussion on the CSCI 101 class organization (1w)
2. Curriculum, classroom management, advising, and mentoring (1w)
3. Discover your career path (1w)
4. Discover areas of computer science: data, data storage and manipulation (1w)
5. Discover areas of computer science: computer systems and networking (1w)
6. Discover areas of computer science: algorithms and programming languages (1w)
7. Discover areas of computer science: software engineering (1w)
8. Discover areas of computer science: machine learning and artificial intelligence (1w)
9. Discover areas of computer science: computer graphics (1w)
10. Discover areas of computer science: foundation and other areas of computer science (1w)
11. Discussion with academic and industry representatives (2w)
12. On local and global impacts of computer science (2w)

Grading

Written reports are to be graded by instructors. Presentations are graded by instructors (80%) and students (20%). Attendance may be counted as much as 10% for an assignment. The evaluation is based a highest scored 10 activities from the course plan above.

Component	Percentage
A1	10%
A2	10%
A3	10%
A4	10%
A5	10%
A6	10%
A7	10%
A8	10%
A9	10%
A10	10%
Total	100%

Your final letter grade will be given as follows according to the percentage,

Percentage	Grade
90-100%	A
80-89%	B
70-79%	C
60-69%	D
0-59%	F

Important Dates

Monday, Aug. 15	University classes begin
Friday, Aug. 19	Last Day to Add/Drop classes
Monday, Sep. 5	Labor Day Holiday
Monday Sep. 26 – Friday Sep. 30	Midterm Exam
Monday Oct. 3 – Tuesday Oct. 4	Fall Break
Friday, Nov. 21	Last Day to Withdraw from classes
Wednesday, Nov. 23 – Sunday, Nov. 27	Thanksgiving Holiday
Monday, Nov. 28	Last day of classes
Tuesday, Nov. 29	Reading day
Friday, Nov. 30 – Monday, Dec. 5	Final Exam

Disclaimer

The instructor reserves the right to revise this syllabus.