



DISCRETE STRUCTURES

CS 1640: Section A: 3 credit hours

***Spring/2025, Dewey Hall 314, 10:50 AM ET – 11:40 AM ET
Monday/Wednesday/Friday***

CS1640A Discrete Structures (202501-14072)

CS 1640: Section B: 3 credit hours

***Spring/2025, Rowell 118, 12:00 PM ET – 12:50 PM ET
Monday/Wednesday/Friday***

CS1640B Discrete Structures (202501-13979)

Instructress: Rosi, jrosebus@uvm.edu, (802) 656-8858, Innovation E328

Student time: Innovation E328: Monday, 1:30 PM – 2:30 PM and Wednesday, 2:20 PM - 4:20 PM

TEAMS for remote help: [Rosi's Spring 2025 Meeting Space](#)

If you need help, please ask! If you wish to meet with me other than during my office hours, please e-mail me days and times that are convenient for you to meet. I would be happy to make an appointment with you!

Help!

Tutoring

Prerequisites: CS 1210or CS 2100; MATH 1234or MATH 1242

Fulfills Quantitative Reasoning General Education requirement!

UVM reserves the right to make changes in the course offerings, mode of delivery, degree requirements, charges, regulations, and procedures contained herein as educational, financial, and health, safety, and welfare considerations require, or as necessary to be compliant with governmental, accreditation, or public health directives.

Inclusion Statement

Our intention is for UVM to be a place where you will be treated with respect and kindness. We welcome individuals of all ages, backgrounds, beliefs, interests, ethnicities, genders, gender identities, gender expressions, national origins, religious affiliations, sexual orientations, ability – and other visible and nonvisible differences.

All members of UVM are expected to contribute to a respectful, welcoming, and inclusive environment for every other member of the community. If you ever feel that you have been unfairly treated or judged by an instructor, a mentor, another student, or another member of the UVM community, please let someone know. Your instructors and advisors at UVM are available to discuss any concerns or you can report an incident of bias through the [Campus Bias Response Program](#).

Managing Your Identity at UVM

Students at UVM can specify the first name and pronoun they want used on campus.

All students at the UVM can indicate their preferred first name and pronoun to UVM regardless of whether or not they have legally changed their names. Choosing a preferred name in the BANNER system will automatically change which name appears in many internal locations such as class lists, grade reports, and unofficial transcripts.

For more information on how to update your preferred name and personal pronouns as well as keeping your legal name private: <https://www.uvm.edu/registrar/preferred-name-and-pronoun>

To read more about official UVM policies, events, and initiatives regarding diversity, equity, and inclusion: <https://www.uvm.edu/diversity>

Quantitative Reasoning Proficiencies

Interpreting data represented in a variety of ways, such as graphs, tables, and charts

Solving problems through the use of patterns, numbers, and symbols Evaluating the value and validity of provided information Determining if the solution to a problem makes logical sense in the real world Formulating alternative solutions

Communicating effectively the thought process used to interpret and solve the problem

Learning Objectives

Introduction to analytic and formal methods of computer science with practical examples, including logic and proofs, sets and functions, primes and divisibility, analysis of data structures, recursion relations, and proof methods. This course covers the fundamental mathematical tools that Computer Science students need for upper-level classes.

After completing this course the student will be able to WORK comfortably with logic, APPLY proof methods, USE proper vocabulary, OPERATE with date, DECIPHER and SOLVE word problems, ORGANIZE logic puzzles to answer questions about them, MANIPULATE wording to form structural arguments, EVALUATE data, and COMMUNICATE concepts!

Required Course Materials

You will find course materials on BRIGHTSPACE, once it is set up for us. We will use an online interactive textbook, called a zyBook: CS 1640: Discrete Structures Spring 2025.

A subscription is \$64. Students may begin subscribing on Dec 30, 2024 and the cutoff to subscribe is Apr 24, 2025. Subscriptions will last until May 23, 2025.

Attendance & Classroom Expectations

Do you require special accommodations? Please let me know by Friday afternoon, January 17, 2025, at 4:00 PM. I would be happy to accommodate you!

You are expected to actively participate in this course. I will keep track of attendance and arriving before class starts. Please don't make me dock you for being late. Yes, I will keep track of that, too. Perfect attendance WILL help your final average in the class. Less than perfect attendance will not help your final grade. Comprenez-vous?

Another part of your participation grade will be from your behavior. I mean that you will respect and assist your classmates, when appropriate.

Thank you for respecting that having your phone out in class and/or playing with your watch is distracting to your classmates. The contract you sign gives me permission to dismiss you if I see your phone. (I am not kidding.)

Assessments

I do expect you to do the homework I assign. It is a very reasonable amount. In each class, I will assign the homework due for the next class.

We will have quizzes, a midterm, and a final. Your quiz grades, midterm grade, and final examination grade will all be posted in BLACKBOARD.

You will let me know ahead of time if you are going to miss any quiz, the midterm, or the final examination. Otherwise, you will earn a grade of 0% on it. Let me be clear: you will earn a 0% on any quiz, the midterm, or the final if you do not let me know ahead of time that you will not take it when it is given.

Our final examination will be cumulative and will be given when the Registrar requires us to have it.

Grading Criteria/Policies

Final grade for the class is based upon:

Quiz Average: (one grade dropped):

50%,

Midterm:

30%, and

Final Examination:

20%.

My grades follow:

A+: 97% – 100%,

A: 94% - 96%,

A-: 90% - 93%,

B+: 87% – 89%,

B: 84% - 86%,

B-: 80% - 83%,

C+: 77% – 79%,

C: 74% - 76%,

C-: 70% - 73%,

D+: 66% – 69%,

D: 64% - 66%,

D-: 60% - 63%, and

F: below 60%.

Course Evaluation

All of you get to evaluate the course and me, too! These evaluations will be anonymous and confidential. I take to heart the information I receive from these. So, I appreciate your honesty. Thank you!

Statement about Academic Integrity

<https://www.uvm.edu/policies/student/acadintegrity.pdf>

Code of Student Conduct

<http://www.uvm.edu/policies/student/studentcode.pdf>

FERPA Rights Disclosure

The purpose of this policy is to communicate the rights of students regarding access to, and privacy of their student educational records as provided for in the Family Educational Rights and Privacy Act (FERPA) of 1974.

<http://catalogue.uvm.edu/undergraduate/academicinfo/ferparightsdisclosure/>

Promoting Health & Safety

The University of Vermont's number one priority is to support a healthy and safe community!

Center for Health and Wellbeing

<https://www.uvm.edu/health>

Counseling & Psychiatry Services (CAPS)

Phone: (802) 656-3340

C.A.R.E.

If you are concerned about a UVM community member or are concerned about a specific event, we encourage you to contact the Dean of Students Office ((802) 656-3380). If you would like to remain anonymous, you can report your concerns online by visiting the Dean of Students website at <https://www.uvm.edu/studentaffairs>

Food Insecurity

The UVM Center for Health & Wellbeing provides several on- and off-campus resources for students struggling with food insecurity: <https://www.uvm.edu/health/food-insecurity-uvm>

Alcohol and Cannabis Use

Statement on Alcohol and Cannabis in the Academic Environment

I care about you. I truly do! I want to work with you to provide you the best experience possible. I take my commitment to you very seriously!

Now, I am going to include some wording handed down from above for you.

“You play a crucial role in your education and in your readiness to learn and fully engage with the course material. It is important to note that alcohol and cannabis have no place in an academic environment. They can seriously impair your ability to learn and retain information not only in the moment you may be using, but up to 48 hours or more afterwards.

In addition, alcohol and cannabis can:

Cause issues with attention, memory and concentration

Negatively impact the quality of how information is processed and ultimately stored

Affect sleep patterns, which interferes with long-term memory formation

It is my expectation that you will do everything you can to optimize your learning and to fully participate in this course.”

Now, this is my wording again. You matter to me. If ever I can help you, please let me know. Thank you!

Statement on Students with Disabilities

“In keeping with University policy, any student with a documented disability interested in utilizing accommodations should contact SAS, the office of Disability Services on campus. SAS works with students and faculty in an interactive process to explore reasonable and appropriate accommodations, which are communicated to faculty in an accommodation letter. All students are strongly encouraged to meet with their faculty to discuss the accommodations they plan to use in each course. A student's accommodation letter lists those accommodations that will not be implemented until the student meets with their faculty to create a plan. Contact SAS: A170 Living/Learning Center; (802) 656-7753; access@uvm.edu; or www.uvm.edu/access”

Statement on Religious Holidays

“Students have the right to practice the religion of their choice. Each semester students should submit in writing to their instructors by the end of the second full week of classes their documented religious holiday schedule for the semester. An arrangement can then be made to make up the missed work.”

Statement on Student Athletes

“In order to be excused from classes, student athletes should submit appropriate documentation to the Professor in advance of all scheduling conflicts within the first two weeks of class. Those missing class are expected to submit make-up assignments within a reasonable time period.”

