

| Week | | Content | Reading | HW Assigned | HW Due |
|---------|-----------------------------|---|--|------------------------------------|-------------------------------|
| week1 | Thursday, January 18, 2024 | Course policies, the Scheme Programming Language | Syllabus (Canvas) Install & (Re) Familiarize Yourself with Scheme | | |
| week 2 | Tuesday, January 23, 2024 | Propositional Logic, Truth Tables | zyBooks 1.1 - 1.3 Rosen 1.1 - 1.2 | PS1 Out | |
| | Thursday, January 25, 2024 | Equivalences, Laws of Propositional Logic | zyBooks 1.4 - 1.5 Rosen 1.3 | | |
| week 3 | Tuesday, January 30, 2024 | Conditionals, DNFs, CNFs, Satisfiability | zyBooks 1.4 - 1.5 Rosen 1.3 | PS2 Out | PS1 Due Tue, 1/30, 11:59pm |
| | Thursday, February 1, 2024 | First Order Logic: Predicates and Quantifiers | zyBooks 1.6 - 1.7 Rosen 1.4 | | |
| week 4 | Tuesday, February 6, 2024 | Free Variables, Negation of Quantified Statements Multiply Quantified Statements | zyBooks 1.8 - 1.10 Rosen 1.5 | | |
| | Thursday, February 8, 2024 | Laws of Inference with Propositions | zyBooks 1.12 Rosen 1.6 | PS3 Out (2/10) | PS2 Due Fri, 2/9, 11:59pm |
| week 5 | Tuesday, February 13, 2024 | Snow Day/No Class | | | |
| | Thursday, February 15, 2024 | Laws of Inference with Quantifiers | zyBooks 1.13 Rosen 1.6 | PS4 Out (2/19) | PS3 Due Sun, 2/18, 11:59pm |
| week 6 | Tuesday, February 20, 2024 | Sets, Set Operations | zyBooks 3.1 - 3.4 Rosen 2.1 - 2.2 | | |
| | Thursday, February 22, 2024 | Set Identities, Cartesian Products | zyBooks 3.5- 3.6 Rosen 2.1 - 2.2 | | |
| week 7 | Tuesday, February 27, 2024 | Functions: Injective, Surjective, Bijective Floor & Ceiling Functions | zyBooks 4.1 - 4.3 Rosen 2.3 | PS5 Out (2/27) | PS4 Due Mon, 2/26, 11:59pm |
| | Thursday, February 29, 2024 | Countable & Uncountable Sets | Rosen 2.5 | | |
| week 8 | Tuesday, March 5, 2024 | Exercises on Countable and Uncountable Sets | Rosen 2.5 | | PS5 Due Tue, 3/5, 11:59pm |
| | Thursday, March 7, 2024 | MIDTERM EXAM | | | |
| week 9 | Tuesday, March 12, 2024 | SPRING BREAK | | | |
| | Thursday, March 14, 2024 | | | | |
| week 10 | Tuesday, March 19, 2024 | Relations: Basic Properties | zyBooks 6.1 - 6.3 Rosen 9.1 - 9.3 | PS6 Out | |
| | Thursday, March 21, 2024 | Induction | zyBooks 8.1, 8.3 - 8.4 Rosen 5.1 | | |
| week 11 | Tuesday, March 26, 2024 | Number Theory: Introduction, Peano, Division Theorem, Modular Arithmetic | zyBooks 9.1 - 9.2 Rosen 4.1 - 4.2 | PS7 Out | PS6 Due Tue, 3/26, 11:59pm |
| | Thursday, March 28, 2024 | Prime Numbers, Unique Factorization GCDs, Euclid Algorithm | zyBooks 9.3 - 9.5 Rosen 4.3 | | |
| week 12 | Tuesday, April 2, 2024 | Linear Combinations, Number Representations | zyBooks 9.6 Rosen 4.2 | | |
| | Thursday, April 4, 2024 | Congruences, Fermat's Little Theorem, Euler Totient Function | Rosen 4.4 | PS8 Out | PS7 Due Thu 4/4, 11:59pm |
| week 13 | Tuesday, April 9, 2024 | Chinese Remaindering Theorem Introduction to Cryptography | zyBooks 9.8 Rosen 4.6 | | |
| | Thursday, April 11, 2024 | Public Key Cryptosystem: RSA | zyBooks 9.9 Rosen 4.6 | PS9 Out | PS8 Due Fri, 4/12, 11:59pm |
| week 14 | Tuesday, April 16, 2024 | Graphs and Their Representations | zyBooks 13.1 - 13.3 Rosen 10.1 - 10.3 | | |
| | Thursday, April 18, 2024 | Connectivity, Cycles, Eulerian Circuits Hamiltonian Paths | zyBooks 13.4 - 13.6 Rosen 10.4 - 10.5 | | PS9 Due Sat, 4/20, 11:59pm |
| week 15 | Tuesday, April 23, 2024 | Directed Acyclic Graphs, Topological Order | zyBooks 6.8 | PS10 Out | |
| | Thursday, April 25, 2024 | Trees & Their Properties m-Ary Trees | zyBooks 14.1 - 14.4 Rosen 11.1 - 11.3 | | |
| | Tuesday, April 30, 2024 | Review on Trees | zyBooks 14.4 Rosen 11.3 | | PS10 Due Mon 4/29, 11:59pm |
| | Wednesday, May 1, 2024 | FINAL EXAM | Burchard 111 | 3:00pm - 4:15pm 4:30pm - 6:00pm | |
| | Thursday, May 2, 2024 | Friday Class Schedule NO CLASS | | | |