

**MATH 332**  
**Discrete Models**

MoWeFr at 2:00PM - 2:50PM in Bouillon Hall 210 and Th at 2:00PM - 2:50PM in Black Hall 226-01 PC Lab

Instructor	Course Content	Course Requirements																										
<p>Michael A. Lundin Central Washington University Department of Mathematics, 400 East 8th Avenue Ellensburg, WA 98926-7424 Bouillon Hall Room 108D e-mail:<a href="mailto:lundin@cwu.edu">lundin@cwu.edu</a></p>	<p>Week1: Foundations of Modeling</p> <p>Week2: Sequences and Limits, Root Finders, Programming</p>	<p><u>Quizzes (15% of Grade)</u></p> <p>Brief Quizzes will be given approximately once per week on material similar to the homework.</p>																										
<p><b>Office Hours</b></p> <p>M-F 12:10-12:50; TTh 11:00-11:50; T 2:00-2:50; or by appointment. I use e-mail to avoid playing "phone tag." Please talk to me if you need special accommodations due to a disability.</p>	<p>Week 3: Discrete Dynamical Systems</p> <p>Week 4: Discrete Dynamical Systems</p>	<p><u>Homework (15% of Grade)</u></p> <p>Homework will be assigned almost every class day and you may be asked to present solutions. Homework should be completed neatly and kept in a notebook in order, with the class day marked in the upper right hand corner of the first page of each assignment.</p>																										
<p><b>Course Philosophy</b></p> <p>In this course, we will learn problem-solving in the context of analyzing discrete mathematical models.</p>	<p><b>Exam 1</b></p>	<ul style="list-style-type: none"> <li>• 2 pts for complete, neat work that supports solutions;</li> <li>• 1 pt if substantial content is missing or work is not neatly presented, or which does not support solutions;</li> <li>• 0 pts for substantial missing work or work not submitted.</li> </ul>																										
<p><b>Student Outcomes</b></p> <p><u>NOTE: This is a student-centered course; you will be required to contribute during class.</u> You must demonstrate connections among STEM content areas via multiple representations.</p>	<p>Week 5: Applied Dynamical Systems</p>	<p><u>Exams (70% of Grade)</u></p> <p>There will be a mid-term exam and a final exam, each worth 35% of your final grade.</p>																										
<p><b>Calculators</b></p> <p>You must have a programmable calculator and learn how to program it during this course. This means you must also download the manual for your calculator. TI-83 or TI-84 are recommended. Other calculators are acceptable, but YOU are responsible for learning how to operate them.</p>	<p>Week 6: Differential vs Difference equations</p>	<p><b>Attendance, Missed Tests and Assignments</b></p> <p>Class attendance is EXPECTED and is a reasonable predictor of grades in this course. Also, I expect tests to be taken on schedule and assignments to be completed the class day after they are assigned.</p>																										
<p><b>Text</b></p> <p>Rather than a text for this course, readings on content can be found on our <a href="#">Math 332 Web Site</a>.</p>	<p>Week 7: Numerical Integration on Calculators and Excel</p>	<table border="0"> <thead> <tr> <th>Final Point Distribution</th> <th>Final Grade</th> </tr> </thead> <tbody> <tr><td>93-100%</td><td>A</td></tr> <tr><td>90-92%</td><td>A-</td></tr> <tr><td>88-90%</td><td>B+</td></tr> <tr><td>83-87%</td><td>B</td></tr> <tr><td>80-82%</td><td>B-</td></tr> <tr><td>78-79%</td><td>C+</td></tr> <tr><td>73-77%</td><td>C</td></tr> <tr><td>70-72%</td><td>C-</td></tr> <tr><td>68-69%</td><td>D+</td></tr> <tr><td>63-67%</td><td>D</td></tr> <tr><td>60-62%</td><td>D-</td></tr> <tr><td>Below 60%</td><td>F</td></tr> </tbody> </table>	Final Point Distribution	Final Grade	93-100%	A	90-92%	A-	88-90%	B+	83-87%	B	80-82%	B-	78-79%	C+	73-77%	C	70-72%	C-	68-69%	D+	63-67%	D	60-62%	D-	Below 60%	F
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	<p>Week 8: Solving ODEs on Calculator and Excel</p>	<p><i>Assignments, quizzes, and tests may be made up only if the student and instructor agree on a time before a missed deadline.</i></p>																										
	<p><b>Exam 2</b></p>																											
	<p>Week 9: Geometric Series and Base Conversions</p>																											
	<p>Week 10: Routes, Paths, and Euler Circuits</p>																											
	<p><b>Final Exam: Time to be determined.</b></p>																											