

**Tennessee Technological University  
Mathematics Department**

**MATH: 2610 Discrete Structures**

**I. COURSE DESCRIPTION FROM CATALOG:**

Topics to be chosen from algebra of sets and relations, functions, algebras, graphs, and digraphs, monoids and machines, groups and subgroups, computer arithmetic, binary codes, logic and languages. Lec. 3. Cr. 3.

**II. PREREQUISITE(S):**

C or better in MATH 1920

**III. COURSE OBJECTIVES:**

**IV. TOPICS TO BE COVERED:**

Algebra of sets, combinatorics, relations, functions, graphs and trees, algebraic structures, Boolean algebra, and binary codes.

**V. ADDITIONAL INFORMATION:**

**VI. POSSIBLE TEXTS AND REFERENCES:**

*Mathematical Structures for Computer Science*, 4<sup>th</sup> edition by Gersting

**VII. ANY TECHNOLOGY THAT MAY BE USED:**

Students with a disability requiring accommodations should contact the Office of Disability Services (ODS). 1  
An Accommodation Request (AR) should be completed as soon as possible, preferably by the end of the first week of the course. The ODS is located in the Roaden University Center, Room 112; phone 372-6119.