This course will delve into the language of mathematics, set theory and proof, relations and functions, number systems, and other mathematical structures. A major purpose of the course is to build a bridge from lower-level division study to upper division study by actively engaging the student in problem-solving, mathematical reasoning, and both informal and technical writing.

INSTRUCTOR: Dr. Dennis Walsh
OFFICE: KOM 273
OFFICE HRS: 1:00 – 2:00 Mon, Tue, Wed, Thr (other hours by appointment)
PHONE: 898-2224 (office)
898-2669 (dept. office)
DEPT. FAX: 898-5422
E-MAIL: dwalsh@mtsu.edu

PREREQUISITES: MATH 221 (Calculus II)


SCHEDULE (subject to revision):

June 6 – 9     Chapter 1: Introduction to Logic; Chapter 2: Methods of Proof
              • Test
June 13 – 16   Chapter 3: Set Theory; Chapter 4: Cartesian Products and Functions
              • Test
June 20 – 23   Chapter 5: Relations; Chapter 6: Cardinality
              • Test
June 27 – July 6 Chapter 7 – 9: Number Theory; Rings; Limits
              • Test
July 7         Final Exam

EVALUATION: The semester grade will be based on tests (61%), the final exam (21%), and attendance (18%). Letter grades will be assigned according to the usual scale: A for [90,100], B for [80,90), C for [70, 80), D for [60,70), F for (0,60) pts.

ABSENCES: Attend every class. Prompt notification of an absence is required. If a student misses a test for a legitimate reason that is promptly reported, the instructor will either give a make-up test or reweigh the final exam. A grade of W or I will be given only in accordance with the University policy. No grade of “W” will be assigned after the official drop date except in situations involving extreme extenuating circumstances.
beyond the student’s control. In particular, a “W” will not be granted merely because the student is failing. Students should be aware that missing the official drop date and thereby receiving an “F” can have ramifications on financial aid.

**DISABILITY:** If you have a disability that may require assistance or accommodation, or if you have questions related to any accommodations for testing, note takers, readers, etc., please speak with me as soon as possible. Students may also contact the Office of Disabled Students Services (898-2783) with questions about such services.

**LOTTERY SCHOLARSHIPS:** To retain Tennessee Education Lottery Scholarship eligibility, you must earn a cumulative TELS GPA of 2.75 after 24 and 48 attempted hours and a cumulative TELS GPA of 3.0 thereafter. You may qualify with a 2.75 cumulative GPA after 72 attempted hours (and subsequent semesters), if you are enrolled full-time and maintain a semester GPA of at least 3.0. A grade of C, D, F, or I in this class may negatively impact TELS eligibility. Dropping a class after 14 days may also impact eligibility; if you withdraw from this class and it results in an enrollment status of less than full time, you may lose eligibility for your lottery scholarship. Lottery recipients are eligible to receive the scholarship for a maximum of five years from the date of initial enrollment, or until a bachelor degree is earned. For additional Lottery rules, please refer to your Lottery Statement of Understanding form, review lottery requirements on the web at [http://scholarships.web.mtsu.edu/telsconteligibility.htm](http://scholarships.web.mtsu.edu/telsconteligibility.htm), or contact the Financial Aid Office at 898-2830.

**IMPORTANT DATES:** (See [http://www.mtsu.edu/records/docs/sudropadd.pdf](http://www.mtsu.edu/records/docs/sudropadd.pdf))

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
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<tr>
<td>Drop without a Grade</td>
<td>June 9</td>
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<tr>
<td>Drop with a &quot;W&quot;</td>
<td>June 25</td>
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<tr>
<td>Fourth of July Holiday</td>
<td>July 4</td>
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<tr>
<td>Final Exam</td>
<td>July 7</td>
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