St. Thomas Aquinas College

MAT 308: Discrete Mathematics
Fall 2022

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Course Information

Instructor Information

Name: Dr. Caleb McWhorter
Office: Maguire 129
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Office Hours: See *'Mathematics Help'*

Class Information

Dates: September 6 – December 16
Time: TR 11:25 am – 12:50 pm
Classroom: MAG 122
Course Webpage: http://coffeeintotheorems.com

Course Description

Logic, sets, Boolean Algebra, switching circuits, functions, computer arithmetic, methods of proof and mathematical induction. *Prerequisite: "C" grade or better in MATH 201 or MATH 109.*

Course Objectives

After this course, among other things, students should be able to...

- Construct truth tables as well as convert between written statements and compound statements.
- Understand predicates and quantified statements as well as be able to determine truth values for these statements.
- Understand tautologies, fallacies, contradictions, and the basic principals of inference.
- Understand the connection between truth tables and digital logic circuits.
- Understand and explain the concept of proofs.
- Explain the principal of induction and write basic proofs using inductive reasoning.
- Understand and use recursive principles, especially computing or solving recurrence relations.
- Understand sets and their related topics, e.g. set operations, Cartesian products, set indexing, etc., as well as be able to write basic proofs involving properties of sets.
- Understand functions and their related properties, e.g. injectivity/surjectivity, inverses, etc.
- Understand the idea of equivalence relations/partitions, their relationship, and work with basic examples of them.
- Understand basic concepts in number theory, e.g. parity, primes, factorizations, the division algorithm, congruences, etc., and their applications.
- Compute permutations and combinations, especially in applications to counting problems.
- Understand the fundamentals of probability, e.g. probability distributions, and perform basic probabilistic calculations, e.g. conditional probability and expected value.
- Understand and use the basic language of graph theory, especially for trees. They should also learn and apply important graph theory concepts, e.g. walks, circuits, and various sorting/traversal algorithms.
- Perform basic matrix calculations and understand their connections to graphs and other topics.
- Understand and compute the complexity of algorithms.

Furthermore, students should...

- Improve their ability to engage in mathematical thinking, reasoning, communication, and problem solving.
- Develop a matured perspective on how to approach mathematical problems and concepts.
- Be able to state ways Mathematics applies to real world problems.
- Learn to utilize technology to explore, expand upon, or answer mathematical questions.
- Refine their cognitive skills by improving their ability to learn independently, approach problems imaginatively, solve problems methodically, and communicate solutions intelligibly.

Course Materials

Textbook. The primary reference for course topics will be lecture notes and related materials provided by the instructor. However, students wishing to have a consistent standard reference are suggested to use the free open source textbook *Discrete Mathematics: An Open Introduction* by Oscar Levin found at http://discrete.openmathbooks.org/dmoi3.html or the online textbook *MCC: MTH 220—Discrete Math* by Judy Dean found at https://math.libretexts.org/Courses/Monroe_Community_College/MTH_220_Discrete_Math.

Technology. The course may make use of the computational engine Mathematica via the WolframAlpha website: https://www.wolframalpha.com. Although WolframAlpha does have a paid account option for additional resources, the course will not make use of these features and students *will not* be required to setup an account or make any kind of payment. The course may also make use of various programming languages, e.g. Python. These languages will be free and the instructor will provide instructions and resources to be able to make use of them.

Course Policies

Grading Components

Course grades are determined by the following components:

Discussions	10%
Quizzes	15%
Exams	30%
Homework	45%

Grading Scale

The grade scale is the standard St. Thomas Aquinas College grading scale and is as follows:

A	95 – 100	C+	77 – 79
A–	90 – 94	C	73 – 76
B+	87 – 89	C–	70 – 72
B	83 – 86	D	65 – 69
B–	80 – 82	F	0 – 64

Course Format

The course consists of two lectures per week. Each class will begin with a quiz followed by lecture. These lectures will typically consist of a brief overview of a topic followed by time for individual or group problem solving from a daily class activity handout. However, due to the large number of course topics, not every concept or problem type can be covered during class. Students are expected to spend outside of class studying extra materials and solving additional problems. Therefore, students are highly encouraged to solve all the problems from each daily class activity—whether or not they are completed in class. Students are expected to typically spend approximately 3 hours per credit outside of class on course materials. However, some weeks this may be more or less.

Attendance and Participation

Attendance. It is essential to your success in this course that you attend each lecture and participate in class discussions. It is also a federal requirement that students who do not attend or stop attending a class be reported at the time of determination by the faculty that the student never attended or stopped attending the class. Therefore, you are expected to attend each lecture and to show up on time. Address any absence(s), anticipated or unanticipated, with the instructor as soon as possible. Should you anticipate an absence, you are to contact the instructor as soon as possible—at least twenty-four hours before the class, if possible. Certain absences from lecture(s) may be excused, depending on the reason for the absence. Determinations are made on a case-by-case basis at the discretion of the instructor. The student should discuss the issue with the instructor as soon as possible; however, to excuse an absence, the reason(s) for missing lecture(s) must be documentable and presented, if requested.

If you miss a lecture, you are responsible for any material covered, any work assigned, any course changes made, etc. during the class. Do not assume or expect the instructor to provide you with anything, particularly lecture notes, from the class(es) missed. *Four or more unexcused absences from lectures could result in receiving a grade penalty per additional absence or an 'F' in the course.* Furthermore, excessive lateness will also count as an absence. If you are dismissed from lecture due to problems during the lecture, e.g. disruptive behavior or unauthorized cell phone use, then this dismissal will be recorded as an absence for the lecture. If you cannot attend a class due to a mandated quarantine, inform your instructor immediately so that arrangements can be made. In this case, the student may be required to participate in lectures virtually and submit assignments online.

Participation. Students are expected to participate in the course—both inside and outside the classroom. Inside the classroom, this means attending class, paying attention, taking notes, asking and answering questions when appropriate, etc. However, course participation does not begin and end at the classroom door. Students are expected to review course material and complete course assignments. Typically, students can expect to spend approximately 3 hours per credit outside of class working for the course—although some weeks this could be more or less.

Students are highly encouraged to form study groups to help support themselves and their fellow students' learning. These groups can be used to review notes or additional resources, work on class activities, discuss homework problems, etc. However, these groups *should not* be used to simply solve problems for others or have others solve your problems for you. For instance, students may not 'assign' homework problems to each other to solve in order to complete assignments. Using study groups in this or similar manners is an academic integrity violation that will be dealt with harshly. If you are unsure if what plan on doing or are doing in study groups is appropriate, discuss this with your instructor. At no time may students discuss a take-home exam—directly or indirectly—until the instructor has indicated that the exam period has passed.

Quizzes

There will be a quiz *every* class. Quizzes are meant to be short and simple. These quizzes serve more as a method of gauging whether you are keeping up with the material. It is important that if you are late that you obtain a copy of the quiz immediately. Quiz solutions will often be discussed following

the quiz. Because quiz solutions will often be discussed in class, no make-up quizzes will be given except under extraordinary circumstances determined on a case-by-case basis at the discretion of the instructor. Unless otherwise instructed, there are no calculators, computational devices, notes, or outside assistance of any kind allowed on quizzes.

Discussions

As part of the course grade, students will be required to meet with their instructor outside of class for a brief discussion—five to ten minutes—for a minimum of seven such meetings. These meetings may be scheduled with the instructor or occur during office hours. During this meeting, the instructor and student will discuss a topic from the previous week of course material. The discussion will consist of one or more of the following: giving an overview of the topic, stating definitions or theorems, providing examples or counterexamples to particular concepts, briefly solving a simple problem relating to the topic, addressing a common misconception, etc. Students will then be assigned a grade corresponding to their level of mastery related to the topic as demonstrated by this discussion. The topic of the discussion is chosen by the instructor.

A student's 'Discussion' grade will be graded based on seven of these discussions. Students may opt to participate in more than seven of these discussion sessions, in which case the highest seven discussion grades will be taken. While these discussions may occur at any point in a particular week—on a day and at a time agreed upon by the student and instructor—the topic will always be on a topic from the previous week. Students may not be graded on a discussion from topics from topics preceding the previous week unless it relates to the material from the previous week, e.g. notation or definitions learned earlier in the semester appearing in concepts from the previous week. There are no make-ups for these discussions.

The purpose of these discussions is to hold students accountable for keeping up with course materials and display some level of mastery of course topics without the 'harshness' of boolean correct or incorrect responses. Students should not feel nervous about these meetings. These meetings are a *discussion*. For instance, students may ask for hints or to be reminded of something during the discussion while the instructor may point out errors to allow the student to correct themselves. While still receiving some penalty for incorrect statements, a student can typically demonstrate more of what they know than in a single homework solution.

Homework

The only way to learn Mathematics is to do Mathematics! Therefore, there will be weekly homework assignments. In fact, students should anticipate being assigned homework *every* class—typically due the next class. It is essential for students to complete all of the assignments for the course. Working on homework is the best way of engaging with course concepts and gauging one's mastery of the material. Moreover, homework is an essential portion of the course grade. Assignments should be started as soon as possible. Do not delay working through homework; it is easier to keep up than it is to catch up. Students may request extensions on homework assignments. Requests for extensions should be submitted to the instructor in a timely fashion—do not delay! However, do not simply assume that you will be able to receive extra time on an assignment and plan your schedule carefully. Any extensions, due dates, and grade penalties for late assignments will be determined by the instructor on a student-by-student basis.

You are encouraged to work with others on homeworks. Mathematics is a social activity! The purpose of working together on assignments is to engage with course topics, see different perspectives, ask questions, and have others look over your work. However, do not simply use others to do your assignments. You should also not allow other students to use you to complete their assignments. Of course, using online solutions is a violation of the St. Thomas Aquinas College academic integrity policies. If you are unsure of whether a particular resource is appropriate to use on an assignment, consult with your instructor first.

Exams

During the semester, there will be a total of 3 exams, which are each worth 10% of the course grade, for a total of 30%. Each of the three exams will be take-home exams, perhaps except for the last exam which will likely be an in-person exam scheduled for some day the last week of classes. The exact guidelines may differ between the three exams. However, the content covered by an exam, the exam procedures, and the exam due date, will be announced the week of the exam. Typically, the exam will be released 'that course week', e.g. Friday, Saturday, or Sunday. Students will be expected to solve the problems using the allotted exam time and submit their written exam solutions on Monday morning to their instructor. The anticipated closest-classes to an exam date can be found on the course schedule and are subject to change.

While exams may be take-home, students are to strictly follow the procedures stated for each exam. Students are expected to take every exam without the use of any course materials or outside materials, unless otherwise instructed. Students may not use more than the allotted time on any exam. If you anticipate conflicts to taking the exam in the allotted time or turning in the exam by the required time, you should contact your instructor immediately. Certainly, if you are aware or should be aware of any issues to taking or submitting an exam before the exam is distributed, you should contact your instructor as soon as possible—certainly as least 24-hours in advance, if possible. Extensions on exams will not be granted except in extraordinary circumstances, determined by the instructor and issued on a case-by-case basis.

Mathematics Help

Be proactive about your success in the course! If you need help, there are many resources available to help you. Your first primary contact for help is the instructor. If you are struggling, attend office hours or send an email. The instructors office hours for this semester can be found below:

Mon.	11:30 am – 12:30 pm
Tues.	4:00 pm – 5:00 pm
Wed.	11:30 am – 12:30 pm
Thurs.	4:00 pm – 5:00 pm
Fri.	11:30 am – 1:30 pm

Do not wait to bring issues, course related or otherwise, to the attention of the instructor. If you cannot attend office hours, send an email to the instructor to try to make other arrangements. There are also a number of resources available to you at St. Thomas Aquinas College: Center for Student Success, Academic Recovery Program, Writing Center, etc. Students looking for extra mathematics help should consult with the Academic Services Office in Spellman 106, via email at

academicservices@stac.edu, or on the web at https://www.stac.edu/academics/academic-services. The Center for Student Success website is https://www.stac.edu/academics/academic-services/center-student-success and can be found at Spellman 111 or contacted at 845.398.4090.

Respect Policy

Learning requires a healthy academic environment. A key component to this is respecting everyone's time—especially giving everyone time to fail, ask questions, and learn. Therefore, everyone should abide by the following respect policies:

The instructor will respect student's time:

- They will come prepared to help you understand the course material and prepare students for quizzes/exams.
- They will listen to student feedback on how to best help them succeed.
- They will return assignments, respond to emails, and give feedback in a timely fashion.
- They will be patient during the student learning process and will treat all students fairly.

Students will respect the instructor's time:

- They will be on time to class. Moreover, they will come prepared and pay attention during class.
- They will ask for help and communicate with the instructor in a timely fashion.
- They will keep track of assignments—completing them on time and to the best of their ability.
- They will read and follow course policies.

Students will respect each other's time:

- They will not be disruptive in class. If you need to call or text someone, take it outside of the classroom.
- They will work with each other to find solutions and understand course material. However, they will not simply solve problems.
- They will allow each other to make mistakes, ask questions, and participate in the learning process.
- They will use respectful language when speaking to or about one another.

Email Policy

All email communication in this course should be done using your @stac.edu email account. Similarly, any digital course access and file submissions should be made using your @stac.edu email account.

Abiding by federal guidelines, emails coming from a non-STAC email may not receive a response. Emails should be properly written: contain appropriate subject line, possess an opening and closing address, be understandable and contain appropriate language, be grammatically correct, have appropriate font style and size, etc. Emails which do not follow these guidelines may not receive a response.

Electronic Device Policy

Students are expected to complete the course without the use of calculators or other computational devices on assignments, quizzes, exams, etc., unless otherwise instructed. Any unauthorized use of such devices are considered a violation of the academic integrity policies. During the course, http://www.wolframalpha.com/, https://www.symbolab.com/, and Mathematica will be used to demonstrate concepts give students an opportunity to be able to check work. However, these should only be used as instructed, and never during a quiz or exam. All electronic devices should be turned off and put away during class unless otherwise instructed or given specific permission. Use of such devices can result in dismissal from class.

Mental Health and Counseling Services

If at any point during the semester, you feel overwhelmed with your class work, feel thoughts of depression/suicide, experience sexual assault/rape, experience problems with substance abuse or relationship abuse, or have any other struggles with physical/mental health, ***please seek help***! The Counseling & Psychological Services (CAPS) at St. Thomas Aquinas College is a resource offering assistance with any issue you might have. There is ***never*** any shame in seeking help. If you or someone you know is struggling with any of these issues, *speak out*! The CAPS website can be found at https://www.stac.edu/student-life/counseling-psychological-services. CAPS is located in the upper level of the Romano Student Alumni Center and can be contacted at 845.398.4065. If you or someone you know is having issues with gender or sexual identity issues, CAPS is also there to create a safe space for those with marginalized genders and sexualities or those who might be struggling with these issues. Know that my office is a safe space and should you prefer any gender specific pronoun/name, please be sure to make me aware! Students may also make use of the College Health & Wellness Services located in the McNelis Commons Residence Life Complex, Apartment 2B which can also be contacted at stachealth@stac.edu or 845.398.4242, as well as the Campus Ministry and Volunteer Services, directed by Nick Migliorino, located in the Romano Student Alumni Center and can be contacted at nmiglior@stac.edu or 845.398.4084.

Faith/Tradition Observances Policy

The instructor recognizes the diversity of faiths and traditions represented in the campus community. Students should have the right to observe religious holy days according to their faith and traditions. Accordingly, students may notify their instructor, no later than the end of the second week of classes, of any classes that they will be missing due to religious or traditional observances. Students following this guideline will be excused from these classes. Under this policy, students should have an opportunity to make up any examination, study, or work missed due to these observances or have an equitable and appropriate substitution made. All policy and procedural decisions are made at the discretion of the instructor on a student-by-student basis.

Use of Student Work

In compliance with the federal Family Educational Rights and Privacy Act (FERPA), registration in this class is understood as permission for assignments prepared for this class to be used anonymously in the future for educational purposes.

Course Materials Policy

All course materials (defined to include, but not limited to, course handouts, video/audio lectures, assignments, quizzes, exams, etc.) are the intellectual property of the instructor or St. Thomas Aquinas College, unless the copyright is already explicitly held by some other individual, group, or other entity. Therefore, course materials are protected by United States copyright law, see Title 17 USC. Students in this course are permitted to download some course materials for personal use.

However, students are not permitted to (in print, digitally, or otherwise) share, distribute, sell, or publish course materials, either in part or in whole, without the instructors explicit written and signed permission along with a personal usage code. Unauthorized reproduction or distribution of course materials is a violation of intellectual property law, and is a violation of the student code of conduct. The instructor, or agent acting on behalf of the instructor with written and signed permission, also reserves the right to delete or disable any link to any course materials. In enrolling in the course, the student agrees to abide by this course materials policy in perpetuity.

Syllabus Policy

The instructor reserves the right to revise, including substantially revise, the course syllabus at any time—with or without notification. By enrolling in this course, students agree to all the policies found in the syllabus. Wherever applicable, students also agree to follow syllabus policies in perpetuity, e.g. students may not provide unauthorized assistance, materials, etc. to students enrolled in future versions of this course.

Tips for Success

- Be proactive about your success in the course.
- Do not procrastinate! Begin your assignments and studying early!
- Attend every lecture.
- Address issues immediately. Ask questions during class, recitation, office hours, etc.
- Form a study group! Working together will help you and others better understand the course material as you can work through different difficulties and offer each other clarifications on concepts.
- Do problems! Reading through your notes is not enough. Seek out new problems and work through them carefully. When you are done, check your answer. If you are wrong, examine carefully what misunderstanding occurred and how to avoid it in the future. If you were

correct, examine if there was a faster way, check to see if your solution 'flowed' and was easy to read, and think over what concepts/computations were used and what 'type' of problem was the exercise.

Important Dates

- 09/13: Academic Add/Drop Deadline
- 10/08 – 10/11: Study Days (No Classes)
- 10/21: Mid-semester
- 11/10: Academic Withdrawal Deadline
- 12/16: Last day of classes/exams

College Policies

Academic Integrity

Academic integrity is a commitment to honesty, trust, fairness, respect, and responsibility within an academic community. An academic community of integrity advances the quest for truth and knowledge by requiring intellectual and personal honesty in learning, teaching, research, and service. Honesty begins with oneself and extends to others. Such a community also fosters a climate of mutual trust, encourages the free exchange of ideas, and enables all to reach their highest potential.

A college community of integrity upholds personal accountability and shared responsibility, and ensures fairness in all academic interactions of students, faculty, and administrators. While we recognize the participatory and collaborative nature of the learning process, faculty and students alike must show respect for the work of others by adhering to the clear standards, practices, and procedures contained in the policy described below.

Academic integrity is essential to St. Thomas Aquinas College's mission to educate in an atmosphere of mutual understanding, concern, cooperation, and respect. All members of the College community are expected to possess and embrace academic integrity.

Academic Dishonesty

Academic dishonesty is defined as any behavior that violates the principles outlined above. St. Thomas Aquinas College strictly prohibits academic dishonesty. Any violation of academic integrity policies that constitutes academic dishonesty will be subject to harsh penalties, ranging up to and including dismissal from the College.
For all Academic Integrity violations, faculty must file a Student Conduct Academic Dishonesty Report, which will be shared with the Dean of the appropriate School, the Provost, and the student. The student will also have to file a Student Academic Integrity Violation Report. Please view the full policy and the associated forms at https://www.stac.edu/academics/academic-integrity-policy.

Electronic Use Policy

Faculty members at St. Thomas Aquinas College have the discretion to regulate the use of electronic devices in their classes, and students should not use such devices without the expressed permission of the professor. This policy covers cell phones, tablets, laptop computers, or any other device the use of which might constitute a distraction to the professor or to the other students in the class, as determined by the professor. Students with documented disabilities should discuss the use of laptops and/or other electronic devices with their professor at the beginning of the semester.

When a professor designates a time during which electronic devices may be used, they are only to be used at the discretion of the faculty member and in accordance with the mission of the college. Professors may develop specific and reasonable penalties to deal with violations of these general policies. For more extreme cases of classroom disruption, refer to the College's Disruptive Student Policy.

Please note that a browser lockdown system may be implemented in order to prevent cheating during assessments such as exams and quizzes. Faculty are expected to confirm that these systems will work with students' laptops before requiring their use.

Recording of Lectures: Class meetings that include course content or identifiable student information are protected by the Family Education Rights and Privacy Act (FERPA), found at https://www2.ed.gov/policy/gen/guid/fpco/ferpa/index.html. At times throughout the semester, the faculty member may record their lecture. It is a best practice for faculty to notify participants that their session is going to be recorded. This recording ***CANNOT*** be shared with anyone who is not enrolled in this specific course section.

Students cannot personally record class sessions and then share them outside of the course, although they can maintain them for personal use.

Academic Accommodations for Students with Disabilities Statement

St. Thomas Aquinas College values diverse types of learners and is committed to ensuring that each student is afforded equal access to participate in all learning experiences. If you have a learning difference or a disability—including a mental health, medical, or physical impairment—that would hinder your access to learning in this class, please contact Disability Services. They will confidentially explain the accommodation request process and the type of documentation that may be needed to determine your eligibility for reasonable accommodations. To learn more about academic accommodations for students with disabilities, please contact Anne Schlinck, Director of Disability Services, at aschlinc@stac.edu or call/text 845.398.4087. Disability Services is located in Room L102 in the lower level of Spellman Hall.

If you have already been granted academic accommodations at St. Thomas Aquinas College, you have the right to receive the academic accommodations that are listed on your Letter of Accommodation. Please, understand that it is your responsibility as a student registered with Disability Services to provide your Letter of Accommodation to your instructor if you wish to use your accommodations in this course. If you will need to use your testing accommodations, please be sure to review the Disability Services Testing Accommodation Policies—Academic Year 2022–2023 found at Disability Services Testing Accommodation Policies.

Sexual Misconduct Policy

Students should be aware that faculty members are required to report certain information to the STAC's Title IX Coordinator. If you inform your instructor about, or that person witnesses, gender- or sex-based misconduct, which includes sexual harassment, sexual assault, intimate partner or domestic violence, stalking, or any gender- or sex-based discrimination, the faculty member will keep the information as private as possible, but must bring it to the attention of STAC's Title IX Coordinator.

Students should also be aware that disclosing such experiences in course assignments does NOT put the College on notice and will NOT begin the process of STAC providing assistance or response to those experiences. If you would like to talk to the Title IX Coordinator directly, you can contact Mr. Norman Huling (nhuling@stac.edu, 845.398.4068). Additionally, you also may report incidents or complaints to Title IX Deputy Coordinators, Ms. Nicole Ryan (nryan@stac.edu, 845.398.4163) or Dr. Benjamin Wagner (bwagner@stac.edu, 845.398.4212), or you can contact the Office of Campus Safety and Security (845.398.4080). You can find more information at www.stac.edu/titleix.

Please remember that instances of gender- and sex-based misconduct that occur in virtual/online environments are covered by STAC's Title IX, Student Code of Conduct, and Faculty/Employee Conduct policies. If you would like to report a private concern to a confidential counseling resource who is not required to initiate a Title IX report, you may contact the following people on a confidential basis:

Ms. Anne Walsh RN, BSN
Director, Health and Wellness Services
845.398.4242
awalsh@stac.edu

Dr. Lou Muggeo
Director, Counseling &
Psychological Services
845.398.4174
lmuggeo@stac.edu

Dr. Alexa Gaydos
Licensed Clinical Psychologist,
Counseling & Psychological Services
agaydos@stac.edu

Elysse Sellers, LCSW
Licensed Clinical Social Worker,
Counseling & Psychological Services
esellers@stac.edu

The College also has an affiliation with the following organization, which will provide virtual office hours to STAC students weekly in addition to its other web-based programming:

Center for Safety and Change
http://centerforsafetyandchange.org
9 Johnsons Lane, New City, NY 10956
845.634.3344

COVID-19 Related Policies and Procedures

Classroom Health and Safety Protocols

The health and safety of students, faculty, and staff on our campus is our top priority. In response to the ongoing COVID-19 pandemic, the STAC community will continue to work together to support compliance with recommended health and safety standards to optimize the learning experience while minimizing health risks.

1. **Follow quarantine and isolation guidelines.** If you feel ill, have recently tested positive for COVID-19, or have come into contact with someone who has tested positive for COVID-19, *do not* come to campus or leave your residence hall until you have been cleared to do so by STAC Health Services (stachealth@stac.edu). It is important that you always contact STAC Health Services in any of these circumstances and follow the quarantine and isolation instructions given. STAC Telehealth can be used outside of normal business hours. Please also let your professor know if you cannot attend class.

2. **Mask policy.** Mask-wearing is optional on STAC's campus except for in the STAC Health and Wellness Center, where masks must be worn; however, you must wear a mask if you are directed to do so under our isolation/quarantine policy. Please note that individual professors may encourage students to wear masks in their classrooms, but masks cannot be required. In the event of an increase in COVID cases on campus, the College may decide to return to a mask requirement.

3. **Minimize shared equipment.** Individuals should avoid sharing equipment where possible. However, if equipment does need to be shared, please wipe it down with provided disinfecting wipes in between users and maintain physical distancing as much as possible.

4. **Disinfect your classroom space.** Students and faculty are encouraged to disinfect areas within their workspaces by cleaning these at the beginning and end of each class. This includes desk tops, seats, and equipment used during class. Disinfectant supplies will be provided.

5. **Practice good hand hygiene.** Individuals should wash their hands with soap and water for at least 20 seconds as often as possible or use personal hand sanitizers. Hand sanitizer stations are available throughout the campus.

6. **Respect each other.** Show concern for each other's health and safety, and remember that this is a stressful time for everyone.

COVID-19, Other Illness, and Absences

As stated above, for the health and safety of the campus community, students who are ill *should not attend classes*. Students in the following situations must contact Health Services as soon as possible:

- Those who have tested positive for COVID-19 or are exhibiting COVID-19 related symptoms.
- Those who have been instructed to quarantine because of close contact with someone who has tested positive for COVID-19.

If a student cannot attend classes for any of the above reasons, they should:

1. Communicate this change with their instructor(s) via email. Contact instructors as soon as possible, preferably within 24 hours.

2. Keep up with coursework and participate in class activities as much as possible. Students are responsible for completing any work that they might miss due to illness, including assignments, quizzes, tests, and exams.

3. Reach out to the instructor if illness will require late submission or modifications of assignments; work with the instructor to reschedule exams and other critical academic activities before they are due.

Diversity and Inclusivity Statement

St. Thomas Aquinas College is committed to creating an inclusive environment. Our community actively seeks the inclusion and full participation of individuals from groups that have historically experienced discrimination and prejudice. We are committed to a climate of mutual respect and inclusion, one in which diversity is a source of pride rather than a source of division. We encourage all persons—students, faculty, and staff alike—to reflect on their own experiences to explore the ways in which others' experiences can and do differ; the goal is to use this reflection to learn about different values, cultures, and ways of thinking. Ultimately, a just and equitable society will be easier to realize if we do not exclude those who are different from us and instead practice empathy and inclusivity.

To that end, if you experience or are aware of bias, mistreatment, or discrimination based on a person's (or your own) membership in a historically under-privileged or marginalized group, please contact one of the following individuals to share your concerns:

Samantha Bazile
Director of Admissions &
Chief Diversity Officer
845.398.4104
sbazile@stac.edu

Cindy Garvey
Associate Director of
Financial Aid
845.398.4098
cgarvey@stac.edu

Nicholas Migliorino
Director of Student Engagement
845.398.4084
nmiglior@stac.edu

Faculty reserve the right to provide open and honest readings and discussions in their classes about personal and institutional biases and prejudices and other topics that may cause discomfort to some.

More detailed information about the College's expectations and policies related to these matters can be found in the Student Handbook, specifically in the Student Code of Conduct, Section D: Harassment and Abuse, the Anti-Harassment Policy, and Rules and Regulations for Maintenance of Order.

Course Schedule

The following is a *tentative* schedule for the course and is subject to change.

Date	Topic(s)	Date	Topic(s)
09/06	Logic	10/25	Number Theory
09/08	Logic & Circuits	10/27	Number Theory
09/13	Predicates & Quantifiers	11/01	Number Theory
09/15	Predicates, Quantifiers, & Proofs	11/03	Matrices (Exam 2)
09/20	Sets	11/08	Combinatorics
09/22	Sets	11/10	Combinatorics
09/27	Sets/Functions	11/15	Probability
09/29	Functions	11/24	Thanksgiving Break
10/04	Functions	11/29	Probability
10/06	Induction/Summations/Products (Exam 1)	12/01	Graph Theory
10/11	No Class (Study Day)	12/06	Graph Theory
10/13	Recursion	12/08	Graph Theory
10/18	Recursion	12/13	Algorithms & Complexity
10/20	Equivalence Relations	12/15	Algorithms & Complexity (Exam 3)