Mathematics MAJOR MAP

Possible Programs of Study:

1ST YEAR
You will explore calculus this year, as well as linear algebra, mathematical modelling, and mathematical software. You can also start your required computer science sequence.

2ND YEAR
You will go deeper into math, exploring proof-writing, statistics, and abstract algebra. You will also continue with your computer science courses and take math electives of interest to you.

3RD OR FINAL YEAR
You will finish up your core courses with the study of real analysis, and take more advanced electives. You will complete your computer science sequence now if not before.

4TH OR FINAL YEAR
Your math curriculum finishes up with the capstone course. You will also take any remaining electives and satisfy all requirements for your degree.

GET RELEVANT EXPERIENCE
(clubs, jobs, volunteering, research, internships...)
You should consider joining the NERDs: our club for math enthusiasts.
Consider tutoring for the Academic Success Center (ASC)
Apply for an internal research program with your favorite professor.
Consider tutoring for the ASC or for Mathematics Tutorial Center (MTC)
Take time to participate in the Putnam and COMAP competitions.

GET CONNECTED WITH THE COMMUNITY
(conferences, student gov't, associations...)
Join campus organizations in your areas of interest.
Attend conferences with the other math majors: UNCG in the fall, MAA-SE in the spring.
Get more deeply involved in campus organizations.
Attend math conferences and special talks sponsored by the Math Department.
Take on leadership roles in campus organizations.
Participate in community outreach with KME and NERDs.

GET THINKING GLOBALLY
(study abroad, travel, 3rd year exchange...)
Begin to plan for your study abroad experience.
Attend cultural events about other cultures.
Investigate your favorite study abroad options. Exceptionally talented majors should consider the Budapest Semester in Mathematics or the Math in Moscow program.
The year is the best time to study abroad. Before going, find out about how your courses will transfer back to Winthrop.

GET READY FOR LIFE AFTER GRADUATION
(career or grad school prep)
With your advisor, review the math curriculum, general education requirements, and your long-term goals. Develop a 4-year plan. Explore non-academic career options.
Consider adding a minor in another field such as computer science if you are pursuing a non-academic career.
Investigate visit graduate programs. Prepare for required tests for graduate school (GRE) or for secondary education (PRAXIS II).
With your advisor, make sure that you have no outstanding degree requirements. Apply to graduate.

AFTER GRADUATION
CAREERS OF INTEREST
Actuary
 Animator
 Biostatistician
 College professor
 Data scientist
 Epidemiologist
 Financial analyst
 High school teacher
 Operations researcher
 Software engineer

SKILLS & QUALIFICATIONS I MIGHT NEED INCLUDE:
Critical thinking and problem solving skills
Logical reasoning
Modeling and inferential statistic capabilities
Programming and database knowledge
Oral and written communication skills