## Mathematics MAJOR MAP

College of

Possible Programs of Study:					Arts & Sciences
	1ST YEAR	2ND YEAR	3RD OR FINAL YEAR	4TH OR FINAL YEAR	AFTER GRADUATION
COURSES YOU NEED (core courses, requirements, electives)	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.	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.	You will finish up your core courses with the study of real analysis, and take more advanced electives.  You will complete your computers science sequence now if not before.	Your math curriculum finishes up with the capstone course. You will also take any remaining electives and satisfy all requirements for your degree.	CAREERS OF INTEREST  Actuary Animator Biostatistician College professor Data scientist Epidemiologist Financial analyst High school teacher Operations researcher Software engineer
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.	Join Kappa Mu Epsilon (KME), the mathematics honor society.  Apply for an external research program or internship.  Continue to tutor for the ASC or MTC, and to participate in the Putnam and COMAP competitions.	Continue to tutor for the ASC or MTC, and to participate in the Putnam and COMAP competitions.  If you are preparing for teacher certification, you will be doing internships this year.	SKILLS & QUALIFICATIONS I MIGHT NEED INCLUDE:  Critical thinking and problem solving skills  Logical reasoning  Modeling and inferential statistic capabilities  Programming and database knowledge
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.  Present your research at conferences.	Continue to lead campus organizations, and participate in community outreach. Volunteer for SK Day activities.  Present your research at conferences.	Oral and written communication skills
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.	Consider volunteering with an organization where you can practice second-language skills or learn about other cultures.	
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.  Continue to monitor your academic progress.	Investigate and visit graduate programs.  Prepare for required tests for graduate school (GRE) or for secondary education (PRAXIS II).  Continue to monitor your academic progress.	With your advisor, make sure that you have no outstanding degree requirements. Apply to graduate.  Present your research at conferences.  Apply for jobs or graduate programs.	