What should a Mathematics major know, be able to do, and/or have achieved when s/he graduates?

Category	Specific Goals
Develop Mathematical Maturity	Feel comfortable finding sources
	Take initiative to find out things on own
	Intellectual independence
	Read proofs critically (question, understand, verify)
	Don't take anyone's word for it
	Move from concrete to abstract thinking and back with facility
	Understand something well enough to create own examples
	Analyze: what is given? what is known? what is unknown?
	Understand the value of a community of learners
	Value and take advantage of group study as a tool
	Participate in (and create) a math community (people and ideas)
	Develop an advisor/advisee relationship
	Connect with past, present, future peers
	Engage each other mathematically
	Recognize patterns and connections between other subjects and mathematics
	Recognize patterns and connections between areas within mathematics
	Synthesize ideas across math courses
	Read and understand symbolic language
	Develop symbiotic facility with symbolic and verbal/written language
Logical Thinking	Demonstrate the process, not just the answer (thinking)
	Provide evidence to support arguments
	Organize and construct a logical argument
	Develop problem solving "skills"
Communicate Effectively in All Forms (written, oral, etc.)	Clear, precise, thorough
	Understand and write for an audience
	Articulate arguments clearly and succinctly
	Speak about math before a variety of audiences (students, faculty, professionals)
	in a way they can understand
	Writing
	Develop a voice
	Write works that are interesting to read
	Eliminate assumptions (writing should stand alone)
	Use appropriate mechanics
Intellectual Development	Develop self-critical skills (know what you don't know and how to address it)
	Risk failure for the opportunity to succeed
	Know how to access knowledge (learn how to learn)
	Develop mathematical and intellectual confidence
The Basics	Exposure to a wide variety of concepts
	Enjoy mathematics
	Preparation for a variety of challenging careers
	Computational ability (with use of software such as MATLAB)
	Math typesetting software (such as LaTeX)