Here are our MATH learning goals:

1. *Employ the methodologies used in mathematics, including calculation, proof, discovery of new mathematics, and application.*
2. *Understand basic content and principles in each of the broad divisions within mathematics: discrete (algebra and combinatorics), continuous (calculus and analysis), and geometric (linear algebra and topology).*
3. *Master at least one field of mathematics to a depth beyond that typical of a single advanced undergraduate course in the topic.*
4. *Understand the motivation and aesthetics underlying mathematics, including the historical and cultural context in which it was developed.*
5. *Communicate mathematical ideas in written papers, oral presentations, and group discussions. Possess the ability to argue mathematical proof validity in both written and oral work.*

Here is the MATH curriculum map (497 is the capstone course):

MATH Course	**1**	**2**	**3**	**4**	**5**
115	X	X		X	X
120	X	X			
130	X	X		X	X
215	X	X		X	X
230	X	X		X	X
240	X	X		X	X
260	X	X		X	X
270	X	X		X	X
280	X	X		X	X
290	X	X		X	X
310	X	X		X	
320	X	X		X	X
340	X	X		X	X
350	X	X		X	X
365	X	X		X	X
420	X	X	X	X	X
450	X	X	X	X	X
497	X		X	X	X

Here are our CSCI learning goals, revised as of 4/4/2017:

1. *Create and demonstrate software that correctly solves realistic problems with open-ended scope.*
2. *Create, apply, and understand multiple levels of algorithmic and data abstraction to manage the complexity of hardware and software.*
3. *Employ mathematical ideas in a computing context.*
4. *Use empirical methods to analyze computational systems and models.*
5. *Employ written and oral communication in both technical and nontechnical settings.*

6. *Understand the social and ethical context of computing.*

Here is the CSCI Curriculum Map (410 is the capstone course):

CSCI Course	**1**	**2**	**3**	**4**	**5**	**6**
150	X	X		X		
151	X	X	X	X		
230	X	X	X			
235	X			X	X	
270	X		X	X		X
285	X		X	X	X	
320	X	X		X	X	
335	X	X	X	X	X	X
340	X	X		X	X	X
352	X	X		X	X	X
360	X	X	X			
365	X	X	X		X	
370	X		X	X	X	X
380		X	X		X	
382		X	X		X	
410					X	X