Austin Peay State University

Sample four-year plan: BS in Mathematics--Mathematics Specialization

✓	First Year Fall Semester	SCH	✓	First Year Spring Semester	SCH
	MATH 1910[1]: Calculus/Analytical Geometry	4		MATH 1920: Calculus/Analytical Geometry	4
	Science/Lab	4		Science/Lab	4
	APSU 1000: Transition to the University	1		ENGL 1020: English Composition	3
	ENGL 1010: English Composition I	3		CSCI 2000: Programming and Data Structures	4
	Social/Behavioral Science	3			
	TOTAL SCH	**15**		**TOTAL SCH**	**15**
✓	**Second Year Fall Semester**	**SCH**	✓	**Second Year Spring Semester**	**SCH**
	MATH 2110: Calculus	4		MATH 3450: Linear Algebra	3
	MATH 3010: Intro to Math Reasoning	3		MATH 3120: Differential Equations I	3
	COMM 1010: Fundamentals of Public Speaking	3		Humanities/Fine Arts	3
	ENGL 2030: Traditions in World Literature	3		Minor Requirement or Elective	3
	Minor Requirement[2] or Elective	3		Minor Requirement or Elective	3
	TOTAL SCH	**16**		**TOTAL SCH**	**15**
✓	**Third Year Fall Semester**	**SCH**	✓	**Third Year Spring Semester**	**SCH**
	MATH 3130: Differential Equations II	3		STAT 4250: Mathematical Statistics (even years)/ Minor Requirement or Elective (odd years)	3
	MATH 4500: Modern Algebra (odd years)/ MATH 4210: Topology[3], Minor Requirement, or Elective (even years)	3		MATH 4710: Introduction to Real Analysis (odd years)/ Minor Requirement or Elective (even years)	3
	MATH 4110: Number Theory[3], Minor Requirement, or Elective	3		MATH 4160: Complex Analysis[3] (even years)/ Minor Requirement or Elective (odd years)	3
	MATH 4240: Probability	3		Humanities / Fine Arts	3
	History	3		History	3
	TOTAL SCH	**15**		**TOTAL SCH**	**15**
✓	**Fourth Year Fall Semester**	**SCH**	✓	**Fourth Year Spring Semester**	**SCH**
	MATH 4500: Modern Algebra (odd years)/ MATH 4210: Topology[3], Minor Requirement, or Elective (even years)	3		STAT 4250: Mathematical Statistics (even years)/ Minor Requirement or Elective (odd years)	3
	MATH 4450: Mathematical Models	3		MATH 4710: Introduction to Real Analysis (odd years)/ Minor Requirement or Elective (even years)	3
	Minor Requirement or Elective	3		MATH 4160: Complex Analysis[3] (even years)/ Minor Requirement or Elective (odd years)	3
	Minor Requirement or Elective	3		MATH 4810: Senior Seminar	1
	Social / Behavioral Science	3		Minor Requirement or Elective	3
				Minor Requirement or Elective	3
	TOTAL SCH	**15**		**TOTAL SCH**	**16**
				Total Student Credit Hours for Degree	**122**

***For this degree a student must complete at least 39 upper division (3000-4999) credit hours.**

[1] Students taking MATH 1730 fall of their freshman year can take MATH 1910 in the spring and MATH 1920 in the summer.

[2] Suggested minors: Statistics, Computer Science, Physics, Engineering Technology, Decision Sciences, Accounting, Economics, and Finance.

[3]Topology, Number Theory, and Complex Analysis are not required for the Mathematics Specialization, but are recommended.