

## First Year (Total Credits: 48)

Semester	Course Code	Course Title	Credits	Degrees
Fall	MATH 307	Introduction to Proof	4	Mathematics
	MATH 231	Elements of Discrete Mathematics I	4	Computer Science
	CS 212	Computer Science III	4	Computer Science
Winter	MATH 282	Several-Variable Calculus II	4	Mathematics
	MATH 316	Fundamentals of Analysis I	4	Mathematics
	MATH 232	Elements of Discrete Mathematics II	4	Computer Science
Spring	MATH 317	Fundamentals of Analysis II	4	Mathematics
	MATH 444	Introduction to Abstract Algebra I	4	Mathematics
	CS 314	Computer Organization	4	Computer Science

## Second Year (Total Credits: 36)

Semester	Course Code	Course Title	Credits	Degrees
Fall	MATH 445	Introduction to Abstract Algebra II	4	Mathematics
	MATH 433	Introduction to Differential Geometry	4	Mathematics
	CS 322	Introduction to Software Engineering	4	Computer Science
Winter	MATH 446	Introduction to Abstract Algebra III	4	Mathematics
	MATH 432	Introduction to Topology I	4	Mathematics
	CS 313	Intermediate Data Structures	4	Computer Science
Spring	MATH 432	Introduction to Topology II	4	Mathematics
	MATH 616	Real Analysis I	4	Mathematics
	CS 315	Intermediate Algorithms	4	Computer Science

## Third Year (Total Credits: 36)

Semester	Course Code	Course Title	Credits	Degrees
Fall	MATH 434	Introduction to Topology III	4	Mathematics
	MATH 617	Real Analysis II	4	Mathematics
	CS 350	C/C++ and Unix	4	Computer Science
	CS elective (410-499)		4	Computer Science
Winter	MATH 618	Real Analysis III	4	Mathematics
	MATH 634	Algebraic Topology I	4	Mathematics
	CS 415	Operating Systems	4	Computer Science
	CS elective (410-499)		4	Computer Science
Spring	MATH 635	Algebraic Topology II	4	Mathematics
	MATH 411	Functions of a Complex Variable I	4	Mathematics
	MATH 556	Networks and Combinatorics	4	Mathematics
	CS 425	Principles of Programming Languages	4	Computer Science

## Fourth Year (Total Credits: 48)

Semester	Course Code	Course Title	Credits	Degrees
Fall	MATH 412	Functions of a Complex Variable II	4	Mathematics
	MATH 636	Algebraic Topology III	4	Mathematics
	MATH 637	Differential Geometry I	4	Mathematics
	MATH 681	Advanced Algebra I	4	Mathematics
Winter	MATH 421	Partial Differential Equations I	4	Mathematics
	MATH 638	Differential Geometry II	4	Mathematics
	MATH 682	Advanced Algebra II	4	Mathematics
	CS elective (410-499)		4	Computer Science
Spring	MATH 422	Partial Differential Equations II	4	Mathematics
	MATH 639	Differential Geometry III	4	Mathematics
	MATH 682	Advanced Algebra III	4	Mathematics
	CS elective (410-499)		4	Computer Science