

BACHELOR OF DISCRETE MATHEMATICS TECHNICAL ELECTIVES

		Lect-Lab-Credit
Mathematics		
Differential Equations	MATH 2403	3 - 0 - 3
Coding Theory	MATH 4012	3 - 0 - 3
Combinatorial Analysis	MATH 4032	3 - 0 - 3
Abstract Algebra II	MATH 4108	3 - 0 - 3
Introduction to Number Theory	MATH 4150	3 - 0 - 3
Stochastic Processes I	MATH 4221	3 - 0 - 3
Stochastic Processes II	MATH 4222	3 - 0 - 3
Monte Carlo Methods	MATH 4255	3 - 0 - 3
Mathematical Statistics I	MATH 4261	3 - 0 - 3
Mathematical Statistics II	MATH 4262	3 - 0 - 3
Introduction to Information Theory	MATH 4280	3 - 0 - 3
Analysis II	MATH 4318	3 - 0 - 3
Complex Analysis	MATH 4320	3 - 0 - 3
Introduction to Topology	MATH 4431	3 - 0 - 3
Algebraic Topology	MATH 4432	3 - 0 - 3
Numerical Analysis I	MATH 4640	3 - 0 - 3
Numerical Analysis II	MATH 4641	3 - 0 - 3
Vector and Parallel Scientific Computation	MATH 4777	3 - 0 - 3
Quantum Information and Quantum Computing	MATH 4782	3 - 0 - 3
Special Topics: Mathematical Problem Solving	MATH 4802	2 - 0 - 2
Computing		
Systems and Networks	CS 2200	3 - 3 - 4
Processor Design	CS 3220	2 - 3 - 3
Languages and Computation	CS 3240	3 - 0 - 3
Computer Networking I	CS 3251	3 - 0 - 3
Computer Graphics	CS 3451	3 - 0 - 3
Advanced Algorithms	CS 4540	3 - 0 - 3
Industrial and Systems Engineering		
Simulation Analysis and Design	ISYE 3044	3 - 0 - 3
Supply Chain Modeling: Logistics	ISYE 3103	3 - 0 - 3
Supply Chain Modeling: Manufacturing & Warehousing	ISYE 3104	3 - 0 - 3
Honors Topics	ISYE 4833	3 - 0 - 3
Electrical & Computer Engineering		
Introduction to Signal Processing	ECE 2025	3 - 3 - 4
Introduction to Computer Engineering	ECE 2030	3 - 0 - 3
Digital Design Laboratory	ECE 2031	1 - 3 - 2
Computer Architecture & Operating Systems	ECE 3055	3 - 3 - 4
Random Signals	ECE 3075	3 - 0 - 3
Introduction to Systems & Controls	ECE 3085	3 - 0 - 3
Fundamentals of Digital Signal Processing	ECE 4270	3 - 0 - 3