



Undergraduate Course Carousel

Course Number	Course Name	Fall	Spring	Summer	As Needed
Computer Science Courses					
CSC 105	C Programming for Scientists and Engineers	x			
CSC 114	Introduction to Computer Science	x	x	x	
CSC 115	Foundations of Computer Science	x	x		
CSC 116	Intro. to Programming and Problem Solving	x	x		
CSC 204	Practical Fortran Programming				x
CSC 205	Data Structures and Algorithms for Engineers				Spring
CSC 216	Data Structures	x	x		
CSC 220	C/C++ Language Programming	x	x		
CSC 231	Selected Language Programming (1 hr.)				x
CSC 232	Selected Language Programming (2 hrs.)				x
CSC 233	Selected Language Programming	x			
CSC 300	Fundamentals of Computer Science for Educators				x
CSC 302	Internet and WWW Basics	x			
CSC 309	Discrete Structures		x		
CSC 310	File and Systems Software				x
CSC 314	Computer Organization		x		
CSC 319	Computer-Human Interaction		ODD		
CSC 320	Systems Analysis and Design	x			
CSC 330	Social & Ethical Issues in Computing	x			
CSC 380	Internship				x
CSC 381	Introduction to Numerical Methods				x
CSC 387	Internship				x
CSC 388	Internship				x
CSC 389	Internship				x
CSC 402	Advanced Data Structures and Algorithm Analysis	x			
CSC 404	Programming Language Structures		x		
CSC 405	Introduction to Operations Research				x
CSC 415	Database Management Systems	x			
CSC 416	Software Engineering		x		
CSC 422	Operating Systems	x			
CSC 423	Computer Networking		x		

Course Number	Course Name	Fall	Spring	Summer	As Needed
CSC 425	Advanced Database Systems		EVEN		
CSC 431	Selected Topics				x
CSC 432	Selected Topics				x
CSC 433	Selected Topics				Fall Spring
CSC 435	Computer Security	x			
CSC 436	Cryptography & Network Security		x		
CSC 438	Computer & Network Forensics			x	Fall Spring
CSC 440	Introduction to Artificial Intelligence	x			
CSC 445	Web-Centric Programming Methodologies	EVEN			
CSC 450	Computer Graphics	x			
CSC 455	Graph Theory (cross-listed w/ MAT 455)				x
CSC 460	Automata Theory and Formal Languages				x
CSC 481	Numerical Analysis (cross-listed w/ MAT 381)				x
CSC 485	Senior Seminar	x	x	x	
Electrical Engineering Courses					
ECE 099	Professional Development		x		
ECE 101	Introduction to Electrical Engineering	x			
ECE 201	Logic Design	x			
ECE 202	Logic Design Laboratory	x			
ECE 301	Electric Circuit Theory		x		
ECE 302	Electric Circuit Theory Laboratory		x		
ECE 305	Electronics I	x			
ECE 306	Electronics I Laboratory	x			
ECE 315	Electronics II		x		
ECE 316	Electronics II Laboratory		x		
ECE 320	Microprocessors and Microcontrollers	x			
ECE 321	Microprocessors and Microcontrollers Laboratory	x			
ECE 325	Electromagnetic Theory I	x			
ECE 326	Electromagnetic Theory II		x		
ECE 330	Signals and Systems		x		
ECE 401	Electric Machines		x		
ECE 405	Feedback Control Systems	x			
ECE 421	Communications Systems		x		
ECE 423	Electrical Properties of Materials	x			
ECE 425	Digital Signal Processing	x			
ECE 431	Advanced Logic Design		x		
ECE 433	VLSI Design		x		
ECE 435	Introduction to Robotics		x		

Course Number	Course Name	Fall	Spring	Summer	As Needed
ECE 447	Selected Topics in Electrical Engineering	x			
ECE 451	Senior Design I	x			
ECE 452	Senior Design II		x		
ECE 490	Service Learning		x		
ECE 5453	Senior Design With Business Proposal I				x
ECE 5454	Senior Design With Business Proposal II				x
Engineering Science Courses					
ESC 105	Spreadsheet Applications for Scientists & Engineers				x
ESC 205	Computational Tools for Scientists & Engineers		x		
ESC 305	Electrical Circuits				x
ESC 306	Digital Circuits				x
ESC 310	Electronics				x
ESC 311	Statics				Spring
ESC 312	Dynamics				x
ESC 315	Thermodynamics		x		
ESC 321	Strength of Materials				x
ESC 340	Heat Transfer				x
ESC 350	Fluid Mechanics				x
ESC 450	Senior Design Project				x
Physics Courses					
PHY 104	Physics for Today	EVEN			
PHY 151	General Physics I	x		x	
PHY 152	General Physics II		x	x	
PHY 216	Astronomy				x
PHY 250	Selected Topics in Physics Laboratory				x
PHY 251	Fundamentals of Physics I		x		
PHY 252	Fundamentals of Physics II	x			
PHY 301	Modern Physics	EVEN			
PHY 308	Classical Mechanics	ODD			
PHY 313	Optics		EVEN		
PHY 401	Quantum Mechanics		ODD		
PHY 402	Special Projects	x			
PHY 406	Electricity and Magnetism I (cross-listed w/ ECE 325)	x			
PHY 407	Electricity and Magnetism II (cross- listed w/ ECE 326)		x		
PHY 413	Nuclear Physics				x
PHY 417	Selected Topics in Physics				x
PHY 433	Physics Capstone		x		