

COMPUTER ENGINEERING GRADUATE and PROFESSIONAL ELECTIVES

Course #	Course Title	Cr	Course #	Course Title	Cr
0306-620	Design Automation of Digital Systems	4	0301-531	Mechatronics	4
0306-631	Advanced VLSI Design	4	0301-534	Communication Systems	4
0306-661	Engineering Design of Software	4	0301-605	Robotic Vision	4
0306-662	Concurrent & Embedded Software Design	4	0301-610	Analog Electronic Design	4
0306-663	Real Time and Embedded Systems	4	0301-625	Modern Photonic Devices & Systems	4
0306-672	Special Topics in Computer Engineering	4	0301-636	Biorobotics & Cybernetics	4
0306-675	Robotics	4	0301-647	Artificial Intelligence Exploration	4
0306-684	Digital Image Processing Algorithms	4	0301-662	Neural Networks	4
0306-685	Computer Vision	4	0301-664	Embedded Microcontrol Systems	4
0306-710	Network Modeling, Design and Simulation	4	0301-666	DSP Architecture	4
0306-720	Electronic Design Automation	4	0301-677	Digital Filters and Signals	4
0306-722	Advanced Computer Architecture	4	0301-679	Analog Filter Design	4
0306-731	VLSI Design Projects	4	0301-685	Principles of Robotics	4
0306-741	Design for Testability	4	0301-686	MEMS Design	4
0306-756	Multiple Processor Systems	4	0301-694	Information Theory and Coding	4
0306-758	Fault Tolerant Digital Systems	4	0301-702	Random Signals & Noise	4
0306-759	Principles of Digital Interfacing	4	0301-726	Mixed Signal IC Design	4
0306-761	Engineering Design of Software	4	0301-730	Advanced Analog IC Design	4
0306-762	Concurrent & Embedded Software Design	4	0301-733	Robust Control	4
0306-763	Real Time and Embedded Systems	4	0301-749	Speech & Image Compression	4
0306-772	Special Topics in Computer Engineering	4	0301-768	Adaptive Signal Process	4
0306-775	Robotics	4	0301-769	Fuzzy Logic & Applications	4
0306-780	Independent Study	1-4	0301-770	Pattern Recognition	4
0306-784	Digital Image Processing Algorithms	4	0301-779	Digital Image Processing	4
0306-785	Computer Vision	4	0301-786	MEMS Devices	4
			0301-789	Fundamentals of MEMS	4
0305-655	Microelectronic Technologies	4	0301-794	Information Theory	4
0305-701	Microelectronics I	4	0301-799	Nano & Microengineering	4
0305-702	Microelectronics II	4	0301-803	Digital Video Processing I	4
0305-704	Semiconductor Proc & Device Model	4			
0305-707	Nanoscale CMOS	4	0303-742	Artificial Intelligence Applications	4
0305-731	Microelectronics Manufacturing I	4			
0305-732	Microelectronics Manufacturing II	4	4010-440	Principles of Software Architecture & Des	4
			4010-441	Principles of Concurrent Software Sys	4
4005-705	Cryptography	4	4010-442	Principles of Distributed Software Sys	4
4005-710	Programming Language Theory	4	4010-450	Software Process & Product Metrics	4
4005-711	Compiler Construction	4	4010-452	Software Verification and Validation	4
4005-730	Distributed Operating Systems I	4	4010-456	Software Engineering Process	4
4005-742	Ad-Hoc Networks	4	4010-461	Perform Eng Real-time & Embed Sys	4
4005-750	Introduction to Artificial Intelligence	4			
4005-751	Knowledge Based Systems	4	4003-450	Programming Language Concepts	4
4005-755	Neural Networks & Machine Learning	4	4003-455	Artificial Intelligence	4
4005-756	Genetic Algorithms	4	4003-457	Introduction to Computer Vision	4
4005-756	Genetic Algorithms	4	4003-482	Cryptography	4
4005-757	Introduction to Computer Vision	4	4003-485	Database Concepts	4
4005-757	Introduction to Computer Vision	4	4003-515	Analysis of Algorithms	4
4005-759	Topics in Artificial Intelligence	4	4003-531	Parallel Computing I	4
4005-761	Computer Graphics I	4	4003-570	Computer Graphics I	4
4005-762	Computer Graphics II	4	4003-571	Computer Graphics II	4
4005-771	Database Systems	4			
4005-771	Database Systems	4			