Courses offered in Fall 2024-25

<u>Code</u>	<u>Title</u>	<u>Remarks</u>
BIEN2310	Modeling for Chemical and Biological Engineering	
BIEN2610	Chemical Biology for Engineers	
BIEN3300	Data Science for Molecular Engineering	
BIEN3410	Introduction to Bioinstrumentation and Bioimaging	
BIEN3910	Bioengineering Laboratory	
CENC1000		
CENG1000	Introduction to Chemical and Biological Engineering	
CENG1600	Biotechnology and Its Business Opportunities	
CENG1700	Introduction to Environmental Engineering	
CENG2110	Process and Product Design Principles	
CENG2310	Modeling for Chemical and Biological Engineering	
CENG3210	Separation Processes	
CENG3220	Transport Phenomena II	
CENG3230	Chemical and Biological Reaction Engineering	
CENG3300	Data Science for Molecular Engineering	
CENG4710	Environmental Control	
CIVL1100	Discovering Civil and Environmental Engineering	
CIVL1160	Civil Engineering and Modern Society	
CIVL1180	Monitoring Changing Climate from Space	
	Climate Change, Big History and Sustainability	
CIVL1190 CIVL1210		CIVII 2010 . 1 . 1 . CIVII 1210
	Fundamental of Green Buildings	CIVL2910 to be changed to CIVL1210
CIVL2110	Statics Mark Mark Mark Mark Mark Mark Mark Mark	
CIVL2160	Modeling Systems with Uncertainties	
CIVL2810	Construction Materials	
CIVL3310	Structural Analysis	
CIVL3510	Hydrosystems Engineering	
CIVL3730	Fundamentals of Geotechnics	
CIVL4100P	Wave Loads on Structures	
CIVL4100U	Geospatial Science & Technology for Smart City	
CIVL4210	Advanced Construction with AI and Robotics	
CIVL4310	Energy System Modelling for Buildings and Cities	
CIVL4320	Structural Steel Design	
CIVL4330	Introduction to Structural Dynamics	
CIVL4380	Introduction to Wind Effects on Buildings and Structures	
CIVL4460	Process Design of Environmental Engineering Facilities	
CIVL4470	Air Quality Control and Management	
CIVL4610	Introduction to data analytics for smart transportation systems	
CIVL4620	Transportation System Operations	
CIVL4700	Engineering Geology Numerical Solutions to Geotechnical Problems	
CIVL4750	Numerical Solutions to Geotechnical Problems	
COMP1021	Introduction to Computer Science	
COMP1029C	C Programming Bridging Course	
COMP1029J	Java Programming Bridging Course	
COMP1029P	Python Programming Bridging Course	
COMP1029V	Excel VBA Programming Bridging Course	
COMP1943	Creative Sound Design [expriential]	Not for pre-enrollment
COMP1944	AI Ethics	Not for pre-enrollment
COMP2011	Programming with C++	programment
COMP2012	Object-Oriented Programming and Data Structures	
COMP2012H	Honors Object-Oriented Programming and Data Structures	Not for pre-enrollment
COMP2211	Exploring Artificial Intelligence	Not for pre-enrollment
COMP2611	Computer Organization	2.2.Jo. p. c en oument
COMP2633	Competitive Programming in Cybersecurity I	Not for pre-enrollment
COMP2711	Discrete Mathematical Tools for Computer Science	1.01 pre emoument
	Honors Discrete Mathematical Tools for Computer Science	Not for pre-enrollment
COMP2711H	Inonors Discrete Mathematical Loois for Combiner Science	NOLINE DEPENDATION

COMP3031	Principles of Programming Languages	Not for pre-enrollment
COMP3111	Software Engineering	
COMP3111H	Honors Software Engineering	Not for pre-enrollment
COMP3211	Fundamentals of Artificial Intelligence	Not for pre-enrollment
COMP3311	Database Management Systems	Not for pre-enrollment
COMP3511	Operating Systems	
COMP3632	Principles of Cybersecurity	Not for pre-enrollment
COMP3711	Design and Analysis of Algorithms	Not for pre-enrollment
COMP3711H	Honors Design and Analysis of Algorithms	Not for pre-enrollment
COMP3721	Theory of Computation	Not for pre-enrollment
COMP4021	Internet Computing	Not for pre-enrollment
COMP4211	Machine Learning	Not for pre-enrollment
COMP 4221	Introduction to Natural Language Processing	Not for pre-enrollment
COMP 4222	Machine Learning with Structured Data	Not for pre-enrollment
COMP4331	Introduction to Data Mining	Not for pre-enrollment
COMP4411	Computer Graphics	Not for pre-enrollment
COMP4421	Image Processing	Not for pre-enrollment
COMP4451	Game Programming	Not for pre-enrollment
COMP4462	Data Visualization	Not for pre-enrollment
COMP4471	Deep Learning in Computer Vision	Not for pre-enrollment
COMP4521	Mobile Application Development	Not for pre-enrollment
COMP4633	Competitive Programming in Cybersecurity III	Not for pre-enrollment
COMP4634	Cybersecurity (previous course code: COMP 3632)	Not for pre-enrollment
COMP4651	Cloud Computing and Big Data Systems	Not for pre-enrollment
COM 1031	Croad Comparing and Big Bata Systems	norgor pre em orment
ELEC1010	Electronic and Information Technology	
ELEC1100	Introduction to Electro-Robot Design	
ELEC1200	A System View of Communications: from Signals to Packets	
ELEC2100	Signals and Systems	
ELEC2350	Introduction to Computer Organization and Design	
ELEC2400	Electronic Circuits	
ELEC2420	Basic Electronics	
ELEC2600	Probability and Random Processes in Engineering	
ELEC2000 ELEC3120	Computer Communication Networks	
ELEC3200	System Modeling, Analysis and Control	
ELEC3210	Machine Learning and Information Processing for Robotics	
ELEC3300	Introduction to Embedded Systems	
ELEC3310	Digital Fundamentals and System Design	
ELEC3400	Introduction to Integrated Circuits and Systems	
ELEC3500	Microelectronic Devices and Technology	
ELEC3810	data science in neural engineering	
ELEC3810 ELEC4010O	UG special topic course in IC design	
ELEC40100 ELEC4110	Digital Communications and Wireless Systems	
ELEC4110 ELEC4210	Control System Design	
ELEC4210 ELEC4220	Introduction to Robotics: From Mobile Robots to Manipulators	
ELEC4220 ELEC4240	Deep Learning in Computer Vision	
ELEC4240 ELEC4320	FPGA-based Design: From Theory to Practice	
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ELEC4410	CMOS VLSI Design	
ELEC4420	Analogue Integrated Circuits Design and Analysis	
ELEC4810	Introduction to Biosensors and Bioinstrumentation	
ELEC4820	Medical Imaging	
IED 42010	Introduction of Industrial Equipment and Deliver A. 17	
IEDA2010	Introduction of Industrial Engineering and Decision Analytics	
IEDA2410	Logistics and Freight Transportation Operations	
IEDA2520	Probability for Engineers	
IEDA3010	Prescriptive Analytics	
IEDA3130	Ergonomics and Safety Management	
IEDA3230	Engineering Economics and Accounting	
IEDA3250	Stochastic Models	
IEDA3300	Industrial Data Systems	
IEDA3302	E-Commerce Technology and Applications	

IEDA3330	Introduction to Financial Engineering	
IEDA4410	Data Driven Supply Chain Management	
IEDA4420	Dynamic Pricing and Revenue Optimization	
IEDA4510	System Risk Management	
IEDA4520	Numerical Methods for Financial Engineering	
ISDN1001	Introduction to Integrative Systems and Design	
ISDN1002	Redefining Problems for the Real Needs	
ISDN2610	Exploring the World through Smart Mechatronics	
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MECH1902	Energy System in a Sustainable World	
MECH1907	Introduction to Aerospace Engineering	
MECH2020	Statics and Dynamics	
MECH2310	Thermodynamics	
MECH3030	Mechanisms of Machinery	
MECH3310	Heat Transfer	
MECH3420	Engineering Materials II	
MECH3610	Control Principles	
MECH3640	Aerodynamics	
MECH3650	Aircraft Structural Analysis	
MECH3670	Aircraft Performance and Stability	
MECH3710	Manufacturing Processes and Systems	
MECH4360	Introduction to Intelligent Building	
MECH4450	Introduction to Finite Element Analysis	
MECH4750	Mechanical Vibration	

Last update: 26 Apr 2024