

Courses offered in Spring 2026-27

<u>Code</u>	<u>Title</u>	<u>Remarks</u>
BIEN1600	Introduction to Bioengineering	
BIEN2410	Cellular and Systems Physiology for Engineers	
BIEN3320	Data Science for Biology and Medicine	
BIEN3420	Biosensors and Bioinstrumentation for Healthcare	
CENG1110	Introduction to Chemical Engineering	
CENG2210	Chemical and Biological Engineering Thermodynamics	
CENG2320	Modeling for Chemical and Biological Engineering II	
CENG3110	Process Dynamics and Control	
CENG3150	Integrated Chemical Process and Product Design	
CENG3220	Transport Phenomena II	
CENG3950	Chemical and Environmental Engineering Laboratory	<i>Not for pre-enrollment</i>
CENG4140	Energy Resources and Conversion Technologies	
CENG4630	Food Processing Technology	
CENG4720	Environmental Impact Assessment and Management System	
ENEG1700	Introduction to Energy and Environmental Engineering	
ENEG3910	Sustainable Energy Laboratory	<i>Not for pre-enrollment</i>
ENEG4130	Photovoltaic Materials and Devices	
CIVL1121	Introduction to Computation for Civil Engineers	
CIVL1141	Sustainable Environmental System	
CIVL1161	Building the Future: Civil Engineering Challenges & Solutions	
CIVL1210	Fundamental of Green Buildings	
CIVL1230	AI in Smart City and Environment	
CIVL2110	Statics	
CIVL2120	Mechanics of Materials	
CIVL2170	Infrastructure Systems Engineering and Management	
CIVL2410	Environmental Assessment and Management	
CIVL2510	Fluid Mechanics	
CIVL3210	Introduction to Construction Management	
CIVL3320	Reinforced Concrete Design	
CIVL3420	Water and Wastewater Engineering	
CIVL3610	Traffic and Transportation Engineering	
CIVL3740	Geotechnical Analysis and Design	
CIVL4100P	Resource Recovery from Bioresources	
CIVL4100T	Applications of Artificial Intelligence in Remote Sensing	
CIVL4270	Construction Law and Contract Administration	
CIVL4330	Introduction to Structural Dynamics	
CIVL4340	Prestressed Concrete Design	
CIVL4430	Environmental Impact Assessment	
CIVL4450	Carbon Footprint Analysis and Reduction	
CIVL4480	Climate Modeling and Risk Assessment	
CIVL4640	Introduction to Smart City Economics	
CIVL4710	Soil Slope Engineering	
COMP1021	Introduction to Computer Science	
COMP1023	Python Programming	
COMP1028	Extended Python Programming Bridging Course	<i>Not for pre-enrollment</i>
COMP1029C	C Bridging Course [blended]	<i>Not for pre-enrollment</i>
COMP1029J	Java Bridging Course [blended]	<i>Not for pre-enrollment</i>
COMP1029P	Python Bridging Course [blended]	<i>Not for pre-enrollment</i>
COMP1029V	Excel VBA Bridging Course [blended]	<i>Not for pre-enrollment</i>
COMP1942	Exploring and Visualizing Data	
COMP1944	AI Ethics	<i>Not for pre-enrollment</i>
COMP1945	Artificial Intelligence for Everyone: From Data to Applications	
COMP1946	Automated AI Code Generation	<i>Not for pre-enrollment</i>
COMP1947	Strong Artificial Intelligence	<i>Not for pre-enrollment</i>
COMP2011	Programming Fundamentals and Methodology	
COMP2012	Object-Oriented Programming and Data Structures	
COMP2211	Exploring AI	<i>Not for pre-enrollment</i>
COMP2611	Computer Organization	
COMP2711	Discrete Mathematical Tools for Computer Science	

COMP3021	Java Programming	<i>Not for pre-enrollment</i>
COMP3031	Principles of Programming Languages	<i>Not for pre-enrollment</i>
COMP3111	Introduction to Software Engineering [blended/filipped]	
COMP3211	Learning, Reasoning, and Decision Making in AI	<i>Not for pre-enrollment</i>
COMP3231	Artificial Intelligence for Healthcare	<i>Not for pre-enrollment</i>
COMP3311	Database Management Systems	<i>Not for pre-enrollment</i>
COMP3511	Operating Systems	
COMP3633	Competitive Programming in Cybersecurity II	<i>Not for pre-enrollment</i>
COMP3711	Design and Analysis of Algorithms	
COMP4211	Machine Learning	<i>Not for pre-enrollment</i>
COMP4321	Search Engines for Web and Enterprise Data [pure online]	<i>Not for pre-enrollment</i>
COMP4332/RMBI4310	Big Data Mining and Management	<i>Not for pre-enrollment</i>
COMP4421	Image Processing	<i>Not for pre-enrollment</i>
COMP4441	Music Video Creation	<i>Not for pre-enrollment</i>
COMP4451	Game Programming	<i>Not for pre-enrollment</i>
COMP4461	Human-Computer Interaction	<i>Not for pre-enrollment</i>
COMP4462	Data Visualization	<i>Not for pre-enrollment</i>
COMP4471	Deep Learning in Computer Vision	<i>Not for pre-enrollment</i>
COMP4521	Mobile Application Development	<i>Not for pre-enrollment</i>
COMP4531	IoT and Smart Sensing	<i>Not for pre-enrollment</i>
COMP4541	Blockchain, Cryptocurrencies and Smart Contracts	<i>Not for pre-enrollment</i>
COMP4621	Computer Communication Networks I	<i>Not for pre-enrollment</i>
COMP4634	Cybersecurity	<i>Not for pre-enrollment</i>
COMP4651	Cloud Computing and Big Data Systems	<i>Not for pre-enrollment</i>
COMP4900	Academic and Professional Development	<i>Not for pre-enrollment</i>
ELEC1010	Electronic and Information Technology	
ELEC1030	The Rise of Autonomous Robots	
ELEC1100	Introduction to Electro-Robot Design	<i>Not for pre-enrollment</i>
ELEC1200	A System View of Communications: from Signals to Packets	<i>Not for pre-enrollment</i>
ELEC2100	Signals and Systems	<i>Not for pre-enrollment</i>
ELEC2350	Introduction to Computer Organization and Design	<i>Not for pre-enrollment</i>
ELEC2400	Electronic Circuits	<i>Not for pre-enrollment</i>
ELEC2600	Probability and Random Processes in Engineering	<i>Not for pre-enrollment</i>
ELEC3100	Signal Processing and Communications	
ELEC3130	Digital Image Processing	<i>Not for pre-enrollment</i>
ELEC3180	Data-Driven Portfolio Optimization	
ELEC3200	System Modeling, Analysis and Control	<i>Not for pre-enrollment</i>
ELEC3300	Introduction to Embedded Systems	
ELEC3310	Digital Fundamentals and System Design	
ELEC3350	Principles of Machine Learning	<i>Not for pre-enrollment</i>
ELEC3400	Introduction to Integrated Circuits and Systems	
ELEC3500	Integrated Circuit Devices	
ELEC3600	Electromagnetics: From Wireless to Photonic Applications	
ELEC3610	Quantum Mechanics for Electronic Engineers	
ELEC4240	Deep Learning in Computer Vision	<i>Not for pre-enrollment</i>
ELEC4260	Intelligent Robots and Embodied AI	
ELEC4350	AI Processor Architecture	<i>Not for pre-enrollment</i>
ELEC4460	Application Specific Integrated Circuit Design	
ELEC4510	Semiconductor Physics for Solid-State Electronics	
ELEC4520	Integrated Circuit Fabrication Technology	<i>Not for pre-enrollment</i>
ELEC4610	Engineering Optics	
ELEC4820	Medical Imaging	
ELEC4840	Artificial Intelligence for Medical Image Analysis	
ELEC4010S	Microwave Theory and Applications	
IEDA1250	Optimizing Decisions for Personal and Business Development	
IEDA2010	Introduction of Industrial Engineering and Decision Analytics	
IEDA2100S	Computing in Industrial Applications	
IEDA2540	Statistics for Engineers	
IEDA3410	Routing and Fleet Management	
IEDA3460	Demand and Supply Analytics	
IEDA3560	Predictive Analytics	
IEDA4100	Integrated Production Systems	
IEDA4130	System Simulation	

IEDA4200	Design of Logistics and Manufacturing Systems	
IEDA4331	Quantitative Methods in Financial Engineering	
IEDA4500	Engineering Foundations of Fintech	
IEDA4520	Numerical Methods for Financial Engineering	
ISDN1004	Sketching	
ISDN1007	From Design Thinking to Design Action: Defining Problems for Better Solutions	
ISDN1200	Design Thinking for Technological Innovations	
ISDN2000	What is Design and Why Design?	
ISDN2110	From Ideas to Assets: Practice of the Creative Economy System	
ISDN2200	Systems Thinking and Design	
ISDN2210	Introduction to Brand Design	
ISDN2400	Physical Prototyping	
ISDN2603	Materials, Shape and Design	
ISDN3000E	Programming for Integrative Systems	
ISDN3150	AI for Design	
ISDN4000W	Designing for Sustainability: Fashion and Innovation	
ISDN4200	Product Management	
MECH1905	Buildings for Contemporary Living	
MECH1908	Exploration of Mechanical Design and Engineering	
MECH2410	Engineering Materials I	
MECH2040	Solid Mechanics I	
MECH2210	Fluid Mechanics	
MECH3510	CAD/CAM	
MECH3620	Aircraft Design	
MECH3660	Gas Turbines & Jet Propulsion	
MECH3680	Avionics Systems	
MECH3740	Introduction to Aerospace CFD	
MECH4010	Materials Failure in Mechanical Applications	
MECH4340	Air Conditioning Systems	<i>Not for pre-enrollment</i>
MECH4710	Introduction to Robotics	<i>Not for pre-enrollment</i>
MECH4890	Introduction to Nanosatellite Engineering	

Last update: 16 July 2026