03/17/2026

Electrical and Computer Engineering Fall 2026 Course Offerings

Please note this list does not include EK courses please refer to the MyBU Student schedule for Fall 2026 to see what EK courses are being offered. For information on prerequisites please refer to the ECE course bulletin.

Undergraduate Level Courses:

ENG EC 311 A1 Introduction to Logic Design **Prof Densmore**
Monday/Wednesday 12:20 – 2:05pm
Introduction to hardware building blocks used in digital computers. Boolean algebra, combinatorial and sequential circuits: analysis and design. Adders, multipliers, decoders, encoders, multiplexors. Programmable logic devices: read- only memory, programmable arrays, Verilog. Counters and registers. Includes lab. 4cr

ENG EC 327 A1 Introduction to Software Engineering **Prof Solovey**
Monday/Wednesday 2:30 – 4:15pm
This course aims to introduce students to software design, programming techniques, data structures, and software engineering principles. The course is structured bottom up, beginning with basic hardware followed by an understanding of machine language that controls the hardware and the assembly language that organizes that control. It then proceeds through fundamental elements of functional programming languages, using C as the case example, and continues with the principles of object-oriented programming, as principally embodied in C but also its daughter languages Java, C#, and objective C. The course will conclude with an introduction to elementary data structures and algorithmic analysis. Throughout, the course develops core competencies in software engineering, including programming style, optimization, debugging, compilation, and program management, utilizing a variety of Integrated Development Environments and operating systems. 4cr

ENG EC 330 A1 Applied Algorithms and Data Structures for Engineers **Prof Moreshet**
Tuesday/Thursday 9:00 – 10:45am
Introduction to the general concept of algorithms. Efficiency and run-time of algorithms. Graph algorithms, priority queues, search trees. Various approaches to design of algorithms and data structures, together with their applications to numerical and non-numerical problems. 4cr

ENG EC 401 A1 Signals and Systems **Prof Konrad**
Monday/Wednesday 4:30 – 6:15pm
Continuous-time and discrete-time signals and systems. Convolution sum, convolution integral. Linearity, time-invariance, causality, and stability of systems. Frequency domain analysis of signals and systems. Filtering, sampling, and modulation. Laplace transform, z-transform, pole-zero plots. Linear feedback systems. Includes lab. Cannot be taken for credit in addition to ENG BE 403. 4cr

ENG EC 410 A1 Introduction to Electronics **Prof Sergienko**
Monday/Wednesday 2:30 – 4:15pm
Principles of diode, BJT, and MOSFET circuits. Graphical and analytical means of analysis. Piecewise linear modeling; amplifiers; digital inverters and logic gates. Biasing and small-signal analysis, microelectronic design techniques. Time-domain and frequency domain analysis and design. Includes lab. 4cr

ENG EC 413 A1 Computer Organization **Prof Herbordt**
Monday/Wednesday 10:10 – 11:55am
Introduction to the fundamentals and design of computer systems. Topics covered include computer instruction sets, assembly language programming, arithmetic circuits, CPU design (data path and control, pipelining), performance evaluation, memory devices, memory systems including caching and virtual memory, and I/O. Project using design automation tools. Includes lab. 4cr

ENG EC 414 A1 Introduction to Machine Learning **Prof Cutkosky**
Monday/Wednesday 2:30 – 4:15pm
Linear regression. Maximum likelihood and maximum a posteriori estimation. Classification techniques, including naive Bayes, k-nearest neighbors, logistic regression, and support vector machines. Data visualization and feature extraction, including principal components analysis and linear projections. Clustering. Introduction to neural networks and deep learning. Discussion of other modern analysis methods. 4cr

ENG EC 415 A1 Software Radios **Prof Starobinski**
Tuesday/Thursday 1:30 – 3:15pm
Signal analysis and transmission: amplitude modulation, angle modulation, pulse- amplitude and pulse-code modulation; amplitude shift-keying, frequency shift- keying, phase-shift keying. Case studies of practical communication systems. Includes lab. 4cr

ENG EC 417 A1 Electric Energy, Adapting to Renewable Resources **Prof Dall'Anese**
Monday/Wednesday 12:20 – 2:05pm
This course will present a detailed perspective of electric power systems from generation, transmission, storage, to distribution to end users. Significant emphasis will be placed on methodologies for reliable and efficient transmission and distribution of power over the grid including challenges for adapting to renewable resources such as photovoltaics and wind. Conventional approaches will be presented with emphasis to future technology such as the "smart grid". Analysis of 3-phase power will be presented using numerous examples. Items such as power system stability, security, reliability will be covered. Optimization methods, models, simulation techniques, monitoring and control, grid storage technologies, and micro-grids will also be discussed. Power electronics will be introduced specifically in reference to high voltage circuits. Finally, planning for large numbers of electric vehicles will present new challenges to the effective distribution of power which will be discussed from both centralized and decentralized approaches. 4cr

ENG EC 427 A1 Software Engineering in Practice **Prof Solovey**
Monday/Wednesday 12:20 – 2:05pm
This class builds on students' software design skills by introducing them to an array of industry relevant concepts such as test driven development, effective understanding and debugging of existing codebases, use of IDEs, re-factoring, source control management, microservice architecture, interservice communication, continuous deployment, data storage, fault tolerance and isolation, and system scaling. 4cr

ENG EC 440 A1 Introduction to Operating Systems **Prof Egele**
Monday/Wednesday 4:30 – 6:15pm
Operating system concepts and design objectives. Concurrent processes, process synchronization, and deadlocks. Resource management including virtual memory, CPU scheduling, and secondary storage. File structures, input/output, and distributed systems. Case studies of popular operating systems. 4cr

ENG EC 441 A1 Introduction to Computer Networking **Prof Moreshet**
Monday/Wednesday 2:30 – 4:15pm
Computer networks, focusing on the Internet. Application protocols (Web, E- mail), basics of socket programming, major Internet protocols (TCP and IP), fundamental aspects of routing and reliable data transfer over networks, medium access protocols, wired and wireless Local Area Networks (LANs) technologies. Hands-on laboratory modules on client-server programming, Internet experiments, and protocol implementation. Includes lab. 4cr

ENG EC 444 A1 Smart and Connected Systems **Prof Little**
Tuesday/Thursday 1:30 – 3:15pm
Hands-on introductory course to cyber-physical and IoT systems. Microcontrollers: integrated development environments (ISEs), architecture, and I/O interfaces. Hardware interfacing of systems: formal design and specifications, real-time OS, programming, and control. IoT systems: smart phones, wireless personal area networks (WPANs), IP gateways, mobile cloud computing, reliability, security, and privacy. Course culminates with a team project. 4cr

ENG EC 455 A1 Electromagnetic Systems I **Prof Lee**
Monday/Wednesday 10:10 – 11:55am
Time varying electric and magnetic fields. Maxwell equations. Electromagnetic waves. Propagation, reflection, and transmission. Remote sensing applications. Radio frequency coaxial cables, microwave waveguides, and optical fibers. Microwave sources and resonators. Antennas and radiation. Radio links, radar, and wireless communication systems. Electromagnetic effects in high-speed digital systems. 4cr

ENG EC 463 A1 Senior Design Project I **Profs Little, Alshaykh, Lagoy**
Tuesday/Thursday 3:30 – 5:15pm; 5:30 – 7:00pm
Development of the technical, communication, personal, and team skills needed for successful design in electrical and computer engineering. Specifications and standards, information collection, design strategies, modeling, computer- aided design, optimization, system design, failure and reliability, human factors. Oral and written communication of technical information. Team dynamics and ethical issues in design. Design project for a small-scale electrical or computer system. Preparation of detailed proposals for senior design projects in the following semester. Includes lab. Effective Fall 2020, this course fulfills a single unit in each of the following BU Hub areas: Digital/Multimedia Expression, Writing-Intensive Course, Research and Information Literacy. 4cr

Graduate Level Courses:

ENG EC 500 A1 Foundations of Computer Vision **Prof Chao**
Monday/Wednesday 12:20 – 2:05pm
This course focuses on the foundations of computer vision, with particular emphasis on learning-based methods and 3D. To build background, the course covers basics of image formation, camera modeling, machine learning, and neural networks. With this groundwork, the course introduces image-processing-based methods and probabilistic models of images. Then, the course explores modern neural network architectures for computer vision, including convolutional neural networks and transformers. The course then builds upon these models to develop algorithms for image feature extraction, visual recognition, image generation, and vision-and-language understanding. Moving beyond single images, the course further introduces stereo vision and multi-view vision, including structure from motion and neural radiance fields. Finally, the course introduces algorithms for motion estimation and tracking. Along with the course, representative applications of computer vision will be introduced and discussed.

ENG EC 501 A1 Dynamic System Theory **Prof TBD**
Tuesday/Thursday 9:00 – 10:45am
Introduction to analytical concepts and examples of dynamic systems and control. Mathematical description and state space formation of dynamic systems; modeling, controllability, and observability. Eigenvector and transform analysis of linear systems including canonical forms. Performance specifications. State feedback: pole placement and the linear quadratic regulator. Introduction to MIMO design and system identification using computer tools and laboratory experiments. Same as ENG ME 501 and ENG SE 501. Students may not receive credit for both. 4cr

ENG EC 503 A1 Introduction to Learning from Data **Prof Ishwar**
Tuesday/Thursday 1:30 – 3:15pm
This is an introductory course in statistical learning covering the basic theory, algorithms, and applications. This course will focus on the following major classes of supervised and unsupervised learning problems: classification, regression, density estimation, clustering, and dimensionality reduction. Generative and discriminative data models and associated learning algorithms of parametric and non-parametric varieties will be studied within both frequentist and Bayesian settings in a unified way. A variety of contemporary applications will be explored through homework assignments and a project. 4cr

ENG EC 504 A1 Advanced Data Structures **Prof Brower**
Monday/Wednesday 12:20 – 2:05pm
Review of basic data structures and Java syntax. Data abstraction and object-oriented design in the context of high-level languages and databases. Design implementation from the perspective of data structure efficiency and distributed control. Tailoring priority queues, balanced search trees, and graph algorithms to real-world problems, such as network routing, database management, and transaction processing. 4cr

ENG EC 505 A1 Stochastic Processes, Detection, and Estimation **Prof Saligrama**
Monday/Wednesday 4:30 – 6:15pm
Introduction to discrete and continuous-time random processes. Correlation and power spectral density functions. Linear systems driven by random processes. Optimum detection and estimation. Bayesian, Weiner, and Kalman filtering. 4cr

ENG EC 516 A1 Digital Signal Processing **Prof Nawab**
Monday/Wednesday 10:10 –11:55am
Advanced structures and techniques for digital signal processing and their properties in relation to application requirements such as real-time, low-bandwidth, and low-power operation. Optimal FIR filter design; time-dependent Fourier transform and filterbanks; Hilbert transform relations; cepstral analysis and deconvolution; parametric signal modeling; multidimensional signal processing; multirate signal processing. 4cr

ENG EC 518 A1 Robot Learning **Prof Ohn-Bar**
Monday/Wednesday 4:30 – 6:15pm
This class will discuss recent developments in machine learning and perception for robotics. Specifically, we will study advanced concepts in perception and decision-making algorithms in order to provide theoretical and experimental frameworks for robot learning. Topics will include 3D vision, sensorimotor paradigms for perception and action, robot reinforcement learning, imitation learning, inverse reinforcement learning, exploration, options, model-based approaches, POMDP and human-machine and social interaction.

ENG EC 521 A1 Cybersecurity **Prof Stringhini**
Tuesday 9:00 – 10:45am
Fundamentals of security related to computers and computer networks. Laws and ethics. Social engineering and psychology-based attacks. Information gathering, network mapping, service enumeration, and vulnerability scanning. Operating system security related to access control, exploits, and disk forensics. Shellcoding. Wired and wireless network security at the physical, network, and application layers. Theoretical lessons are augmented with case studies and demonstrative experimental labs. 4cr

ENG EC 522 A1 Introduction to Computational Imaging **Prof Tian**
Tuesday/Thursday 1:30 – 3:15pm
Recent years have seen the growth of computational optical imaging - optical imaging systems that tightly integrate hardware and computation. The results are the emergence of many new imaging capabilities, such as 3D, super resolution, and extended depth of field. Computational optical imaging systems have a wide range of applications in consumer photography, scientific and biomedical imaging, microscopy, defense, security and remote sensing. This course looks at this new design approach as it is applied to modern optical imaging, with a focus on the tools and techniques at the convergence of physical optical modeling, and signal processing. 4cr

ENG EC 523 A1 Deep Learning **Prof Batmanghelich**
Monday/Wednesday 2:30 – 4:15pm
Mathematical and machine learning background for deep learning. Feed-forward networks., Backpropagation. Training strategies for deep networks. Convolutional networks. Recurrent neural networks. Deep reinforcement learning. Deep unsupervised learning. Exposure to Tensorflow and other modern programming tools. Other recent topics, time permitting. Same as CAS CS 523. Students may not receive credit for both. 4cr

ENG EC 524 A1 Optimization Theory and Methods **Prof Paschalidis**
Tuesday/Thursday 3:30 – 5:15pm
Introduction to optimization problems and algorithms emphasizing problem formulation, basic methodologies, and underlying mathematical structures. Classical optimization theory as well as recent advances in the field. Topics include modeling issues and formulations, simplex method, duality theory, sensitivity analysis, large-scale optimization, integer programming, interior-point methods, non-linear programming optimality conditions, gradient methods, and conjugate direction methods. Applications are considered; case studies included. Extensive paradigms from production planning and scheduling in manufacturing systems. Other illustrative applications include fleet management, air traffic flow management, optimal routing in communication networks, and optimal portfolio selection. Same as ENG EC 674, ENG SE 524, ENG SE 674. Students may not receive credit for both. 4cr

ENG EC 528 A1 Cloud Computing **Prof Hu**
Monday/Wednesday 6:30 – 8:15pm
Fundamentals of cloud computing covering IaaS platforms, OpenStack, key Big Data platforms, and data center scale systems. Examines influential publications in cloud computing. Culminates in a group project supervised by a mentor from industry or academia. Same as CAS CS 528. Students may not receive credits for both. 4cr

ENG EC 533 A1 Advanced Discrete Mathematics **Prof Levitin**
Monday/Wednesday 2:30 – 4:15pm
Selected topics in discrete mathematics. Formal systems. Mathematical deduction. Logical concepts. Theorem proving. Sets, relations on sets, operations on sets. Functions, graphs, mathematical structures, morphisms, algebraic structures, semigroups, quotient groups, finite-state machines, their homomorphism, and simulation. Machines as recognizers, regular sets. Kleene theorem. 4cr

ENG EC 545 A1 Cyber-Physical Systems **Prof Li**
Monday/Wednesday 10:10 – 11:55am
This course introduces students to the principles underlying the design and analysis of cyber-physical systems - computational systems that interact with the physical world. We will study a wide range of applications of such systems ranging from robotics, through medical devices, to smart manufacturing plants. A strong emphasis will be put on building high-assurance systems with real-time and concurrent behaviors. The student will gain both in-depth knowledge and hands-on experience on the specification, modeling, design, and analysis of representative cyber-physical systems. Meets with ENG SE 545. Students may not receive credits for both. 4cr

ENG EC 551 A1 Advanced Digital Design with Verilog and FPGAs **Prof Densmore**
Tuesday/Thursday 1:30 – 3:15pm
Content includes use of HDL (Verilog) for design, synthesis and simulation, and principles of register transfer level (RTL). Programmable logic, such as field programmable gate array (FPGA) devices, has become a major component of digital design. In this class the students learn how to write HDL models that can be automatically synthesized into integrated circuits such as FPGA. Laboratory and homework exercises include writing HDL models of combinational and sequential circuits, synthesizing models, performing simulation, and fitting to an FPGA by using automatic place and route. The course has lab orientation and is based on a sequence of Verilog design examples. 4cr

ENG EC 555 A1 Introduction to Biomedical Optics **Prof Roblyer**
Monday/Wednesday 2:30 – 4:14pm
This course surveys the applications of optical science and engineering to a variety of biomedical problems, with emphasis on optical and photonics technologies that enable real, minimally-invasive clinical and laboratory applications. The course teaches only those aspects of the biology itself that are necessary to understand the purpose of the applications. The first weeks introduce the optical properties of tissue, and following lectures cover a range of topics in three general areas: 1) Optical spectroscopy applied to diagnosis of cancer and other tissue diseases; 2) Photon migration and diffuse optical imagine of subsurface structures in tissue; and 3) laser-tissue interactions and other applications of light for therapeutic purposes. Some classes will invoke traditional lectures, and others will be "inverted," devoted to discussing and understanding application problems, with students having read textbook sections or online material prior to class. Same as ENG BE 555. Students may not receive credit for both. 4cr

ENG EC 556 A1 Optical Spectroscopic Imaging **Prof Cheng**
Tuesday/Thursday 9:00 – 10:45am
This introductory graduate-level course aims to teach students how electromagnetic waves and various forms of molecular spectroscopy can be used to study a complex biological system by pushing the physical limits on engineering system design.The course will cover fundamental concepts of optical spectroscopy and microscopy, followed by specific topics covering fluorescence-based , absorption-based, and scattering-based spectroscopic imaging. In addition, this course will provide in-depth discussions of linear and nonlinear spectroscopic imaging in the aspects of theory, instrumentation, image data analysis and enabling applications. Students will learn how to give a concise and informative presentation of a recent literature to the class. Students will be able to challenge their creativity in designing advanced imaging instrument of data analysis methods as part of their course assignments. The students will learn how to write and present a convincing proposal for the required final project to be designed by interdisciplinary teams formed among the students. Same as ENG BE 556. Students may not receive credit for both. 4cr

ENG EC 562 A1 Fourier Optics in Engineering **Prof Sander**
Monday/Wednesday 10:10 – 11:55am
The goal of this course is to present a coherent formulation of wave propagation, radiation and diffraction phenomena in arbitrary linear systems for the engineering design of optical devices in strong partnership with computer simulations and engineering-led design projects. The course will introduce students to the fundamental techniques that are necessary for the quantitative analysis of optics-based engineering systems and devices. 4cr

ENG EC 565 A1 Introduction to Electromagnetics and Photonics **Prof Ramachandran**
Monday/Wednesday 12:20 –2:05pm
This course familiarizes the student with fundamental concepts in electromagnetics and photonics that govern the generation, propagation, and reception of fields and waves in the optical and radio-frequency domains. Topics include the formulation of Maxwell's equations; propagation in free-space, waveguides, and dispersive or anisotropic media, including metamaterials; lightwave interactions at interfaces; radiation and scattering theory for antennas and from apertures. There will be a strong emphasis on connecting these theoretical concepts to current and emerging applications and technologies. 4cr

ENG EC 571 A1 Digital VLSI Circuit Design **Prof Joshi**
Monday/Wednesday 6:30 – 8:15pm
Very-large-scale integrated circuit design. Review of FET basics. Functional module design, including BiCMOS, combinational and sequential logic, programmable logic arrays, finite-state machines, ROM, and RAM. Fabrication techniques, layout strategies, scalable design rules, design-rule checking, and guidelines for testing and testability. Analysis of factors affecting speed of charge transfer, power requirements, control and minimization of parasitic effects, survey of VLSI applications. Extensive CAD laboratory accompanies course. 4cr

ENG EC 572 A1 Computational Methods in Material Science **Prof Sharifzadeh**
Tuesday/Thursday 3:30 – 5:15pm
Introduction to computational materials science. Multi-scale simulation methods; electronic structure, atomistic, micro-structure, continuum, and mathematical analysis methods; rate processes and rare events. Materials defect theory; modeling of crystal defects, solid micro-structures, fluids, polymers, and bio-polymers. Materials scaling theory: phase transition, dimensionality, and localization. Perspectives on predictive materials design. Topics covered include tight binding theory, density functional theory, and many-body perturbation theory. Lectures provide the theoretical framework for computation. Same as CAS CH 455, GRS CH 572, ENG MS 508. Students may not receive credit for both. 4cr

ENG EC 574 A1 Physics of Semiconductor Materials **Prof Bellotti**
Tuesday/Thursday 1:30 – 3:15pm
This course teaches the relevant notions of quantum mechanics and solid state physics necessary to understand the operation and the design of modern semiconductor devices. Specifically, this course focuses on the engineering aspects of solid state physics that are important to study the electrical and optical properties of semiconductor materials and devices. Particular emphasis is placed on the analysis of the electronic structure of semiconductor bulk systems and low-dimensional structures, the study of the carrier transport properties and the calculation of the optical response that are relevant to the design and optimization of electronics and photonics semiconductor devices. The students will learn to apply the quantum mechanical formalism to the solution of basic engineering device problems (quantum wells, wires, and dots, 2D electron gas) and to perform numerical calculation on more complex systems (band structure calculation of bulk and low dimensional systems). Same as ENG MS 574. Students may not receive credits for both. 4cr

ENG EC 577 A1 Electronic Optical and Magnetic Properties of Materials **Prof Swan**
Monday/Wednesday 12:20 – 2:05pm
This course provides an in-depth analysis of solid-state physics as it pertains to materials science and electrical engineering applications. Students will develop an understanding of the theory of crystal structures and their determination via diffraction, as well as the thermal, electrical, and optical properties of materials that arise from these structures. Same as ENG MS 577. Students may not receive credit for both. 4cr

ENG EC 578 A1 Fabrication Technology for Integrated Circuits **Prof Kleptsyn**
Monday/Wednesday 4:30 – 6:15pm
Presentation of fabrication procedures for silicon-integrated circuits: physical properties of bulk and epitaxially grown silicon; silicon processing, such as oxidation, diffusion, epitaxy, deposition, and ion implantation; silicon crystallography, anisotropic etching, photolithography, piezorestivity, and chemical and plasma techniques. The limitations these processes impose on the design of bipolar and MOS devices and integrated circuits are discussed. Design of an integrated circuit and the required processing. Includes lab. 4cr

ENG EC 591 A1 Photonics Lab 1 **Prof Paiella**
Tuesday 9:00 – 10:45am
Introduction to optical measurements. Laser safety issues. Laboratory experiments: introduction to lasers and optical alignment; interference; diffraction and Fourier optics; polarization components; fiber optics; optical communications; beam optics; longitudinal laser modes. Optical simulation software tools. 4cr

ENG EC 601 A1 Product Design in Electrical and Computer Engineering **Prof Alshaykh**
Monday/Wednesday 4:30 – 6:15pm
Engineers influence their community, society and the world. Engineers build products and services that can enhance people's lives. The product starts with an idea and is delivered through research (technical and societal), design, implementation, testing and support. During this class, students will experience all of this. The course provides design and practical insights into building products that involve WEB and mobile app development, data simulation, analysis and modeling, cloud computing, signal processing and/or computer vision. In the class, we work on how to take an idea and concept and translate it into product requirements. Afterwards, we translate the product requirements into system and engineering requirements. We also discuss solution selection techniques. We then work on implementing our ideas into systems and verify that they address the product requirements and fulfill the concept we started with. During the class, we go over how to choose solutions to build our products. We also discuss real product realization, implementations and tradeoffs. The class is taught via an example product and the class sessions are interactive. Students are divided into groups where they work in parallel on their projects during class sessions and hackathons. Teams define their target audience, product mission, requirements and features. The class adopts agile software development based on a two-week sprint. Students present their sprint results to the class. 4cr

ENG EC 602 A1 Design by Software **Prof Carruthers**
Tuesday/Thursday 1:30 – 3:15pm
Software plays a central role in all aspects of electrical and computer engineering. This course will provide the foundation for effectively using software as a key part of a career as a professional electrical or computer engineer. Fundamentals of software development systems: system languages, high-level object-oriented languages, and computational languages. Data structures and algorithms in problem analysis and design. Strategies for designing software and designing with software. Software design and development: methodologies, principles and practice. Formalizing software: management, requirements, specifications, testing. Survey of software applications in ECE, including real-time systems, the web, networked systems, audio, graphics, and video systems, research and engineering analysis, consumer electronics and computing, instrumentation and measurement, design, modeling, prototyping, simulation, optimization and information analysis. Students can choose projects and assignments with application to/inspired by/drawn from a broad array of ECE fields including the traditional areas of electro-physics/photonics, computer engineering, and information and data science. Open to graduate students only. 4cr

ENG EC 674 A1 Optimization Theory and Methods II **Prof Paschalidis**
Tuesday/Thursday 3:30 – 5:15pm
Introduction to optimization problems and algorithms emphasizing problem formulation, basic methodologies, and underlying mathematical structures. Classical optimization theory as well as recent advances in the field. Topics include modeling issues and formulations, simplex method, duality theory, sensitivity analysis, large-scale optimization, integer programming, interior-point methods, non-linear programming optimality conditions, gradient methods, and conjugate direction methods. Applications are considered; case studies included. Extensive paradigms from production planning and scheduling in manufacturing systems. Other illustrative applications include fleet management, air traffic flow management, optimal routing in communication networks, and optimal portfolio selection. Same as ENG EC 674, ENG SE 524, ENG SE 674. Students may not receive credit for both. 4cr

ENG EC 719 A1 Statistical Learning Theories **Prof Ishwar**

Tuesday/Thursday 5:30 – 7:15pm

Classical and contemporary theories of machine learning. Topics/emphasis may change based on instructor preference in different years. A project involving computer implementation of a learning or inference algorithm accompanied by or in support of theoretical analysis is required. 4cr