Boston University College of Engineering Department of Electrical and Computer Engineering MEng Computer Engineering Program Planning Sheet



Student Name:	Email:
Academic Advisor:	BU ID:
Advisor Signature:	Date:

Master of Engineering in Computer Engineering (MEng CE) students must take 32 credits (500-level or above). The specific coursework requirements for the MEng CE degree are as follows: At least 24 credits must be structured coursework in ECE; 16 credits (4 courses) must be taken in one of the ECE concentration areas listed below. In addition, students also need to satisfy the advanced technical course requirement by taking at least two 700-level ECE courses. Students may take 4 credits of 900-level coursework (project, research, or directed study); 900-level credit may count towards the concentration requirement but *not* as an advanced technical elective. The remainder of the 32credit requirement may be met through graduate technical electives, which include all courses at the 500-level or above in ENG, as well as courses in the following CAS departments: astronomy, biology, chemistry, cognitive and neural systems, computer science, mathematics, and physics (CAS courses require advisor approval and an approved petition). Note: Students are encouraged to explore graduate technical electives that embrace technical project management, entrepreneurship, or leadership development; some of these courses include: ENG EC 518 Project Management for Software-Intensive Systems, ENG EK 730 Technology Commercialization, ENG ME 502 Intellectual Assets: Creation, Protection, and Commercialization, ENG ME 525 Technology Ventures, GSM SI 851 Entrepreneurship, GSM SI 852 Starting New Ventures, GSM SPI 853 Entrepreneurial Management.

MEng CE students must maintain a cumulative GPA of 3.00 to remain in good academic standing. All graduate courses taken are calculated into the student's GPA. Grades of "C-" or lower are not acceptable for the MEng CE degree. Up to 8 credits of coursework may be transferred from other approved graduate schools.

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	Course:	Sem/Year:	Grade:
Concentration Area	Course:	Sem/Year:	Grade:
Courses (Select four courses from one of the concentration areas below)	Course:	Sem/Year:	Grade:
	Course:	Sem/Year:	Grade:
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Advanced Technical Electives	Course:	Sem/Year:	Grade:
(700-level)	Course:	Sem/Year:	Grade:
,Graduate Technical Electives	Course:	Sem/Year:	Grade:

Concentrations

Embedded Systems and Robotics ENG EC 504 Advanced Data Structures ENG EC 511 Software Systems Design

ENG EC 512 Enterp. Client-Server Softw. Sys. Design

ENG EC 535 Introduction to Embedded Systems

ENG EC 544 Networking the Physical World

ENG EC 551 Adv. Digital Design with Verilog and FPGA

ENG EC 712 Adv. Software for Computer Engineers

ENG EC 728 Design/Test. of Dist. Softw.-Intensive Syst.

ENG EC 757 Advanced Microprocessor Design

ENG ME 570 Robot Motion Planning

ENG ME 719 Computational Problem Solving

ENG SE 734 Hybrid Systems

ENG SE 740 Vision, Robotics, and Planning

Chip and Computer Design and Architecture

ENG EC 513 Computer Architecture

ENG EC 551 Adv. Digital Design with Verilog and FPGA

ENG EC 571 VLSI Principles and Applications

ENG EC 580 Modern Active Circuit Design

ENG EC 582 RF/Analog IC Design Fundamentals

ENG EC 713 Parallel Computer Architecture

ENG EC 751 Design of Asynch. Circuit and Systems

ENG EC 752 Theory of Computer Hardware Testing

ENG EC 772 VLSI Graduate Design Project

ENG EC 782 RF/Analog IC Design

ENG EC 772 VLSI Graduate Design Project

Instrumentation and Circuits

ENG EC 535 Introduction to Embedded Systems

ENG EC 571 VLSI Principles and Applications

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ENG EC 575 Semiconductor Devices

ENG EC 580 Modern Active Circuit Design

ENG EC 582 RF/Analog IC Design Fundamentals

ENG EC 751 Design of Asynch. Circuit and Systems

ENG EC 757 Advanced Microprocessor Design

Reliable and Secure Computing and Communications

ENG EC 504 Advanced Data Structures

ENG EC 534 Stochastic

ENG EC 535 Introduction to Embedded Systems

ENG EC 541 Computer Communication Networks

ENG EC 561 Error-Control Codes

ENG EC 727 Advanced Coding

ENG EC 730 Information-Theoretic Design of Algorithms

ENG EC 752 Theory of Computer Hardware Testing

ENG EC 753 Fault-Tolerant Computing

ENG EC 761 Information Theory and Coding

Networking and Communications

ENG EC 505 Stochastic Processes

ENG EC 515 Digital Communication

ENG EC 517 Introduction to Information Theory

ENG EC 518 Software Project Management

ENG EC 541 Computer Communication Networks

ENG EC 544 Networking the Physical World

ENG EC 561 Error-Control Codes

ENG EC 715 Wireless Communications

ENG SE 741 Randomized Network Algorithms

ENG EC 700 Game Theory for Communications

ENG EC 724 Advanced Optimization and Methods

ENG EC 725 Queuing Systems

ENG EC 727 Advanced Coding

ENG EC 733 Discrete Event Simulation

ENG EC 770 Optoelectronics

ENG EC 772 VLSI Graduate Design Project

ENG EC 775 VLSI Devices and Models

ENG EC 782 RF/Analog IC Design

ENG EC 744 Mobile Computing and Networking

ENG EC 749 Interconnection Networks

Software

ENG EC 504 Advanced Data Structures

ENG EC 511 Software Systems Design

ENG EC 512 Enterp. Client-Server Softw. Sys. Design

ENG EC 518 Softw. Proj. Manag. for Softw.-Ints Sys ENG EC 535 Introduction to Embedded Systems

ENG EC 544 Networking the Physical World

ENG EC 712 Adv. Software for Computer Engineers

ENG EC 728 Design/Test. of Dist. Softw.-Intensive Syst.

ENG ME 732 Combinatorial Optim. and Graph Algor.

High Performance Computing Applications

ENG EC 504 Advanced Data Structures

ENG EC 500 High Perf. Programming: Multicore, GPUs

ENG EC 713 Parallel Computer Architecture

ENG ME 702 Computational Fluid Dynamics

ENG ME 719 Computational Problem Solving

ENG ME 732 Combinatorial Opt. and Graph Algorithms

ENG BE 505 Molecular Bioengineering I

ENG BE 562 Computational Biology

ENG BE 561 DNA and Protein Sequence Analysis

ENG BE 703 Numerical Methods and Modeling in BME

ENG BE 777 Computational Genomics I

CAS MA 539 Methods of Scientific Computing