

Computer Engineering: Software Systems for Ubiquitous Computing (Option B)

September 2020 (for students who entered first year in September 2018)

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Term A

AM 2270A Applied Mathematics for Engineering II

SE 2202A Scripting Programming Language Fundamentals

ECE 2205A Electric Circuits I ECE 2277A Digital Logic Systems

Math 2151A Discrete Structures for Engineering

SE 2203A Software Design

Term B

AM 2276B Applied Mathematics for Elec. & Mech. Engineering III

ECE 3375B Microprocessors and Microcomputers

ECE 3380B Advanced Digital Systems
MSE 2233B Circuits and Systems

SE 2205B Algorithms and Data Structures for Object-Oriented

Design

SS 2143B Applied Statistics and Data Analysis for Engineers

Year 3

Term A

ECE 3330A Control Systems

ECE 3389A Computer System Design

ECE 4436A Networking: Principles, Protocols & Architecture SE 3313A Operating Systems for Software Engineering

SE 3316A Web Technologies

SE 3352A Software Requirements and Analysis

Term B

ECE 3331B Introduction to Signal Processing
ECE 3390B Hardware/Software Co-Design
ECE 4460B Real-Time and Embedded Systems

SE 3314B Design and Implementation of Computer Networks

SE 3353B Human-Computer Interface Design

Writ 2130G Building Better (Communication) Bridges: Rhetoric &

Professional Communication for Engineers

Year 4

Term A

ECE 4415 Computer Engineering Design Project

ECE 4437A Communications Theory

SE 4452A Software Verification and Validation
One 0.5-credit non-technical elective from approved list

Two 0.5-credit technical electives

Term B

ECE 4415 Computer Engineering Design Project

ES 4498G Engineering Ethics, Sustainable Development & the

law

SE 4455B Cloud Computing: Concepts, Technologies and

Applications

One 0.5-credit technical elective

Two 0.5-credit non-technical electives from approved list

NOTES:

Non-technical electives:

Please choose 1.0 credits (one 1.0-credit or two 0.5-credit courses) from the 1000 level and one 0.5-credit course from the 2000 (or higher) level.

Technical Electives

Some technical electives may not be offered in a given academic year. Consult the Department for accurate listing.

| ECE 4429A/B | Advanced Digital Signal Processing | | |
|-------------|--|--|--|
| ECE 4438A/B | Advanced Image Processing and Analysis | | |
| ECE 4445A/B | Introduction to Digital Image Processing | | |
| ECE 4455A/B | Biomedical Systems Analysis | | |
| ECE 4469A/B | Applied Control Systems | | |
| | Maximum one of: | | |
| SE 3309A/B | Database Management Systems | | |
| SE 3310A/B | Theoretical Foundations of Software | | |
| | Engineering | | |
| SE 3351A/B | Software Project and Process Management | | |
| SE 4460 A/B | Machine Learning & Design | | |
| SE 4472A/B | Information Security | | |