

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

September 2019 (for students who entered first year <u>prior to</u> September 2016)

| Year | 2 |
|------|---|
| Term | Δ |

Term A

Applied Mathematics for Engineering II AM 2270A CS 1037A Computer Science Fundamentals II

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

Math 2151A Discrete Structures for Engineering

SE 2203A Software Design

Term B

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

Microprocessors and Microcomputers ECE 3375B

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

Algorithms and Data Structures for Object-Oriented SE 2205B

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

BUS 2299E **Business for Engineers**

ECE 4415 Computer Engineering Design Project

ECE 4437A **Communications Theory**

SE 4452A Software Verification and Validation

Two 0.5-credit technical electives

Term B

BUS 2299E Business for Engineers

ECE 4415 Computer Engineering Design Project

ES 4498G Engineering Ethics, Sustainable Development & the

SE 4455B Cloud Computing: Concepts, Technologies and

Applications

One 0.5-credit non-technical elective from approved list

One 0.5-credit technical elective

NOTES:

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 4472A/B | Information Security |