

Computer Engineering: Electronic Devices for Ubiquitous Computing (Option A)

September 2022 (for students who entered first year in September 2020)

<p>Year 2</p> <p>Term A</p> <p>NMM 2270A Applied Mathematics for Engineering II CS 1027A Computer Science Fundamentals II ECE 2205A Electric Circuits I ECE 2240A Electrical Laboratory ECE 2277A Digital Logic Systems Writ 2130F Building Better (Communication) Bridges: Rhetoric & Professional Communication for Engineers</p> <p>Term B</p> <p>NMM 2276B Applied Mathematics for Elec. & Mech. Engineering III ECE 2231B Introduction to Electronics ECE 2233B Circuits and Systems ECE 2242B Principles of Design in Electrical Engineering ECE 3375B Microprocessors and Microcomputers ECE 3380B Advanced Digital Systems</p> <p>Year 3</p> <p>Term A</p> <p>CS 2211A Software Tools and Systems Programming SE 2205A Algorithms & Data Structure for Object-Oriented Design</p> <p>Math 2151A Discrete Structures for Engineering ECE 3330A Control Systems ECE 3349A Introduction of VLSI ECE 3389A Computer System Design</p> <p>Term B</p> <p>ECE 2236B Magnetic Circuits and Transmission Lines ECE 3331B Introduction to Signal Processing ECE 3390B Hardware/Software Co-Design SE 2203b Software Design SS 2143B Applied Statistics and Data Analysis for Engineers One 0.5 non-technical elective</p> <p>Year 4</p> <p>Term A</p> <p>ECE 4415 Computer Engineering Design Project ECE 4436A Networking: Principles, Protocols & Architecture ECE 4437A Communications Theory SE 3313A Operating Systems for Software Engineering One 0.5-credit non-technical elective from approved list One 0.5-credit technical elective</p> <p>Term B</p> <p>ECE 4415 Computer Engineering Design Project ECE 4460B Real-Time and Embedded Systems ELI 4110G Engineering Ethics, Sustainable Development & the Law SE 3314B Computer Networks Applications One 0.5-credit technical elective One 0.5-credit non-technical elective from approved list</p>	<p>NOTES:</p> <p>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.</p> <p>Technical Electives Some technical electives may not be offered in a given academic year. Consult the Department for accurate listing.</p> <table border="1"> <tr><td>ECE 3332A/B</td><td>Electric Machines</td></tr> <tr><td>ECE 3333A/B</td><td>Electric Power Systems I</td></tr> <tr><td>ECE 3337A/B</td><td>Electronic Circuits</td></tr> <tr><td>ECE 3370A/B</td><td>Communication Electronics I</td></tr> <tr><td>ECE 4429A/B</td><td>Advanced Digital Signal Processing</td></tr> <tr><td>ECE 4438A/B</td><td>Advanced Image Processing and Analysis</td></tr> <tr><td>ECE 4445A/B</td><td>Introduction to Digital Image Processing</td></tr> <tr><td>ECE 4455A/B</td><td>Biomedical Systems Analysis</td></tr> <tr><td>ECE 4469A/B</td><td>Applied Control Systems</td></tr> <tr><td>SE 4460 A//B</td><td>Machine Learning & Design</td></tr> <tr><td colspan="2">Maximum one of:</td></tr> <tr><td>CS 3319A/B</td><td>Databases I</td></tr> <tr><td>CS 3340A/B</td><td>Analysis of Algorithms I</td></tr> <tr><td>CS 3346A/B</td><td>Artificial Intelligence I</td></tr> </table>	ECE 3332A/B	Electric Machines	ECE 3333A/B	Electric Power Systems I	ECE 3337A/B	Electronic Circuits	ECE 3370A/B	Communication Electronics I	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	SE 4460 A//B	Machine Learning & Design	Maximum one of:		CS 3319A/B	Databases I	CS 3340A/B	Analysis of Algorithms I	CS 3346A/B	Artificial Intelligence I
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