

## Electrical Engineering: Wireless Communications (Option C)

September 2020 (for students who entered first year in September 2016)

<p><b>Year 2</b></p> <p><b>Term A</b></p> <p>AM 2270A Applied Mathematics for Engineering II          CS 1037A Computer Science Fundamentals II          ECE 2205A Electric Circuits I          ECE 2277A Digital Logic Systems          ECE 2240A Electrical Laboratory          Writ 2130F Building Better (Communication) Bridges: Rhetoric &amp; Professional Communication for Engineers</p> <p><b>Term B</b></p> <p>AM 2276B Applied Mathematics for Elec. &amp; Mech. Engineering III          ECE 2231B Introduction to Electronics          ECE 2233B Circuits and Systems          ECE 2236B Magnetic Circuits and Transmission Lines          ECE 2241B Electrical Laboratory II          MME 2234B Heat Transfer and Dynamics</p> <p><b>Year 3</b></p> <p><b>Term A</b></p> <p>AM 3415A Applied Math for Electrical Engineering          ECE 3330A Control Systems          ECE 3332A Electric Machines          ECE 3337A Electronic Circuits          SS 2141A Applied Probability and Statistics for Engineers          One 0.5-credit non-technical elective from approved list (either term)</p> <p><b>Term B</b></p> <p>ECE 3331B Introduction to Signal Processing          ECE 3333B Electric Power Systems I          ECE 3336B Electromagnetic Theory          ECE 3370B Communication Electronics I          ECE 3375B Microprocessors and Microcomputers          ECE 3399B Principles and Practices of Design of Electronic Systems</p> <p><b>Year 4</b></p> <p><b>Term A</b></p> <p>ECE 4416 Electrical/Computer Engineering Project          ECE 4429A Advanced Digital Signal Processing          ECE 4432A Radiation and Propagation          ECE 4437A Communications Theory          ECE 4436A Networking: Principles, Protocols and Architecture          One 0.5-credit non-technical elective from approved list</p> <p><b>Term B</b></p> <p>ECE 4416 Electrical/Computer Engineering Project          ECE 4433B Digital Communications Systems          ES 4498G Engineering Ethics, Sustainable Development &amp; the Law          Two 0.5-credit technical electives          One 0.5-credit non-technical elective from approved list</p>	<p><b>NOTES:</b></p> <p><b>Non-technical electives:</b>          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><b>Technical Electives</b>          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 3349A/B</td><td>Introduction to VLSI</td></tr> <tr><td>ECE 3380A/B</td><td>Advanced Digital Systems</td></tr> <tr><td>ECE 4430A/B</td><td>Selected Topics in Electrical Engineering I</td></tr> <tr><td>ECE 4431A/B</td><td>Selected Topics in Electrical Engineering II</td></tr> <tr><td>ECE 4438A/B</td><td>Advanced Image Processing &amp; Analysis</td></tr> <tr><td>ECE 4439A/B</td><td>Conventional, Renewable &amp; Nuclear Energy</td></tr> <tr><td>ECE 4445A/B</td><td>Introduction to Digital Image Processing</td></tr> <tr><td>ECE 4451A/B</td><td>Advanced Topics in Wireless Communications</td></tr> <tr><td>ECE 4455A/B</td><td>Biomedical Systems Analysis</td></tr> <tr><td>ECE 4456A/B</td><td>Power Systems Protection</td></tr> <tr><td>ECE 4457A/B</td><td>Power Electronics</td></tr> <tr><td>ECE 4460A/B</td><td>Real-Time Embedded Systems</td></tr> <tr><td>ECE 4464A/B</td><td>Electric Power Systems II</td></tr> <tr><td>ECE 4468A/B</td><td>Systems Optimization</td></tr> <tr><td>ECE 4469A/B</td><td>Applied Control Systems</td></tr> <tr><td>MME 4452A/B</td><td>Robotics and Manufacturing Automation</td></tr> <tr><td>MME 4473A/B</td><td>Computer Integrated Manufacturing</td></tr> <tr><td>MME 4482A/B</td><td>Fundamentals of MEMS</td></tr> <tr><td>MME 4487A/B</td><td>Mechatronic System Design</td></tr> <tr><td>SE 4460A/B</td><td>Machine Learning &amp; Design</td></tr> </table>	ECE 3349A/B	Introduction to VLSI	ECE 3380A/B	Advanced Digital Systems	ECE 4430A/B	Selected Topics in Electrical Engineering I	ECE 4431A/B	Selected Topics in Electrical Engineering II	ECE 4438A/B	Advanced Image Processing & Analysis	ECE 4439A/B	Conventional, Renewable & Nuclear Energy	ECE 4445A/B	Introduction to Digital Image Processing	ECE 4451A/B	Advanced Topics in Wireless Communications	ECE 4455A/B	Biomedical Systems Analysis	ECE 4456A/B	Power Systems Protection	ECE 4457A/B	Power Electronics	ECE 4460A/B	Real-Time Embedded Systems	ECE 4464A/B	Electric Power Systems II	ECE 4468A/B	Systems Optimization	ECE 4469A/B	Applied Control Systems	MME 4452A/B	Robotics and Manufacturing Automation	MME 4473A/B	Computer Integrated Manufacturing	MME 4482A/B	Fundamentals of MEMS	MME 4487A/B	Mechatronic System Design	SE 4460A/B	Machine Learning & Design
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