

FCU (ISTM)-UQ 2+2 Bachelor program in Electrical Engineering

- UQ BE(Hons) Electrical (No major)-----20251003

course list	Required/Condition	credit
<b>First Year Fall Semester</b>		<b>total credits 21 (R-21, E-0)</b>
STM114 Analytical Geometry and Calculus I	Required	4
ISTM115 Modern Mechanics	Required	4
ISTM116 Programming Applications for Engineers	Required	3
ISTM117 General Chemistry	Required	4
ISTM142 Innovation Project (1)	Required	3
ISTM020 Public Speaking for Nonnative Speakers	Required	3
<b>First Year Spring Semester</b>		<b>total credits 20 (R-20, E-0)</b>
ISTM001 English Writing	Required	3
ISTM118 Analytical Geometry and Calculus II	Required	4
ISTM121 Advanced C Programming	Required	3
ISTM122 Fundamentals of Electromagnetism	Required	4
ISTM143 Innovation Project (2)	Required	3
ISTM163 Logic Design	Required	3
<b>Second Year Fall Semester</b>		<b>total credits 20 (R-17, E-3)</b>
ISTM119 Introduction to MATLAB programming	Required	2
ISTM210 Multivariate Calculus	Required	4
ISTM249 Electrical Engineering Fundamentals I	Required	3
ISTM251 Electrical Engineering Fundamentals I Lab	Required	1
ISTM214 Digital System Design	Required	4
ISTM409 Critical Thinking	Required	3
ISTM166 Introduction to Python Programming	Elective	3
<b>Second Year Spring Semester</b>		<b>total credits 19 (R-16, E-3)</b>
ISTM215 Ordinary Differential Equations	Required	3
ISTM253 Python for Data Science	Required	3
ISTM250 Electrical Engineering Fundamentals II	Required	3
ISTM252 Electrical Engineering Fundamentals II Lab	Required	1
ISTM216 Linear Algebra	Required	3
ISTM268 Linear System Analysis	Required	3
ISTM257 Machine Structure	Elective	3
<b>Total credits 80 (R-74, E-6)</b>		