

MASTER OF SCIENCE IN QUANTUM ENGINEERING

SMU ID #: _____ Name: _____

SMU Email: _____ Phone: _____

ARTICULATION COURSE(S)	Course Title	Instructor	Hrs.	Semester	Grade
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_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

CORE COURSES – 9 Hours

CS/OREM 7370	Probability and Statistics for Data Analytics _____	_____	3 _____	_____	_____
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OR

ECE 7375 _____	Random Processes in Engineering _____	_____	3 _____	_____	_____
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CS/ECE 7383 _____	Introduction to Quantum Informatics _____	_____	3 _____	_____	_____
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CS/ECE 7384 _____	Introduction to Quantum Computing _____	_____	3 _____	_____	_____
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Elective Courses (see list of courses on back of plan) 21 hours of course work or 15 hours of course work and 6 hours of thesis credit.

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_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

TOTAL HOURS (Minimum 30) _____

APPROVED _____	Advisor / Date _____	Department Head / Date _____
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Director of Graduate Division / Date

All Lyle graduate degrees must be completed within a 7 year window. Most courses are offered during alternating semesters to allow some flexibility. Sample tracks for completion are shown below:

Fall - 2 courses Spring - 2 courses	Fall - 1 course/Spring - 1 course - year 1 - 2 courses
Fall - 2 courses Spring - 2 courses	Fall - 1 course/Spring - 1 course - year 2 - 2 courses
Fall - 2 courses Graduation in Fall term (2.5 years)	Fall - 1 course/Spring - 1 course - year 3 - 2 courses
	Fall - 1 course/Spring - 1 course - year 4 - 2 courses
	Fall - 1 course/Spring - 1 course - year 5 - 2 courses
	Graduation in Spring term of year 5

- CS 7339 - Computer System Security
- CS 7349 - Data and Network Security
- CS 7350/OREM 7350 - Algorithm Engineering
- CS 8350/OREM 8350 - Algorithms II
- ECE 7310 - Introduction to Semiconductors
- ECE 7312 - Compound Semiconductor Devices and Processing
- ECE 7322 - Semiconductor Devices and Fabrication
- ECE 7330 - Electromagnets: Guided Waves
- ECE 7335 - Quantum Electronics
- ECE 7336 - Introduction to Integrated Photonics
- ECE 7377 - Embedded Wireless Design Lab
- ECE 7379 - Optimization in Wireless Networks
- ECE 7381/CS 7381 - Computer Architecture
- ECE 8310 - Electronic Processes
- ECE 8322 - Semiconductor Optical Systems
- ECE 8323 - Lasers and Photonics
- ECE 8325 - Infrared Systems Engineering
- ECE 8371 - Information Theory
- ECE 8372/ECE 8372 - Cryptography and Data Security
- MATH 6341 - Linear and Nonlinear Waves
- MATH 6343 - Photonics Modeling and Simulations
- OREM 7361 - Simulation for Systems Analytics
- OREM 8370 - Stochastic Models
- PHYS 6335 - Quantum Mechanics I
- PHYS 6336 - Quantum Mechanics II
- PHYS 6338 - Condensed Matter Physics
- PHYS 6351 - Statistical Mechanics
- PHYS 7314 - Quantum Field Theory I
- PHYS 7315 - Quantum Field Theory II