

MS ECE (Machine Learning and Data Science)

Example Program Schedules

Set 1: Foundations (all 5 courses are required)

Set 2: Learning and Data Analytics (2 courses required)

Set 3: Technical Electives (remainder of units)

*Foundational Proficiency (if proficiency test is passed, technical electives or available Set 2 courses can be substituted)

Students Starting in Fall (general example)

Semester 1 (Fall)	Semester 2 (Spring)	Semester 3 (Fall)	Semester 4 (Spring)
EE 503 Probability (4)	EE 538 Computing Principles* (2)	EE 547 Applied and Cloud Computing (2)	Electives or Remainder of Set 2 requirement (2-6)
EE 510 Linear Algebra (4)	EE 559 Machine Learning I (4)	Set 2 or Electives (6-8)	
EE 541 Computational Intro Deep Learning (2)	EE 483 Digital Signal Processing* (4)		
(10 units total)	(8-10 units total)	(8-10 units total)	(2-6 units total)

Students Starting in Fall (more specific example)

Semester 1 (Fall)	Semester 2 (Spring)	Semester 3 (Fall)	Semester 4 (Spring)
EE 503 Probability (4)	EE 538 Computing Principles* (2)	EE 547 Applied and Cloud Computing (2)	Electives (4-6)
EE 510 Linear Algebra (4)	EE 559 Machine Learning I (4)	EE 660 Machine Learning II (4)	
EE 541 Computational Intro Deep Learning (2)	EE 483 Digital Signal Processing* (4)	EE 641 Deep Learning Systems (2)	
(10 units total)	(8-10 units total)	(8 units total)	(4-6 units total)

Students Starting in Spring (general example 1)

Semester 1 (Spring)	Semester 2 (Fall)	Semester 3 (Spring)	Semester 4 (Fall)
EE 538 Computing Principles* (2)	EE 547 Applied and Cloud Computing (2)	EE 559 Machine Learning I (4)	Remainder of Set 2 requirement or Electives (4-8)
EE 503 Probability (4)	EE 541 Computational Intro Deep Learning (2)	Electives or Set 2 (4-6)	
EE 510 Linear Algebra (4)	EE 483 Digital Signal Processing* (4)		
(8-10 units total)	(8 units total)	(8-10 units total)	(4-8 units total)

Students Starting in Spring (more specific example 1)

Semester 1 (Spring)	Semester 2 (Fall)	Semester 3 (Spring)	Semester 4 (Fall)
EE 538 Computing Principles* (2)	EE 547 Applied and Cloud Computing (2)	EE 559 Machine Learning I (4)	EE 660 Machine Learning II (4)
EE 503 Probability (4)	EE 541 Computational Intro Deep Learning (2)	Electives (4-6)	EE 641 Deep Learning Systems (2)
EE 510 Linear Algebra (4)	EE 483 Digital Signal Processing* (4)		
(8-10 units total)	(8 units total)	(8-10 units total)	(6 units total)

Students Starting in Spring (general example 2)

Semester 1 (Spring)	Semester 2 (Summer)	Semester 3 (Fall)	Semester 4 (Spring)	Semester 5 (Fall)
EE 541 Computational Intro Deep Learning (2)	EE 559 Machine Learning I (4) ¹	EE 538 Computing Principles* (2)	EE 547 Applied and Cloud Computing (2)	Electives (0-4)
EE 503 Probability (4)		Set 2 (6)	EE 483 Digital Signal Processing* (4)	
EE 510 Linear Algebra (4)			Electives (0-4)	
(10 units total)	(4 units total)	(8 units total)	(6-10 units total)	(0-4 units total)

1. Subject to course being offered in summer

Students Starting in Spring (more specific example 2)

Semester 1 (Spring)	Semester 2 (Summer)	Semester 3 (Fall)	Semester 4 (Spring)	Semester 5 (Fall)
EE 541 Computational Intro Deep Learning (2)	EE 559 Machine Learning I (4) ¹	EE 538 Computing Principles* (2)	EE 547 Applied and Cloud Computing (2)	Electives (0-4)
EE 503 Probability (4)		EE 660 Machine Learning II (4)	EE 483 Digital Signal Processing* (4)	
EE 510 Linear Algebra (4)		EE 641 Deep Learning Systems (2)	Electives (0-4)	
(10 units total)	(4 units total)	(8 units total)	(6-10 units total)	(0-4 units total)

1. Subject to course being offered in summer