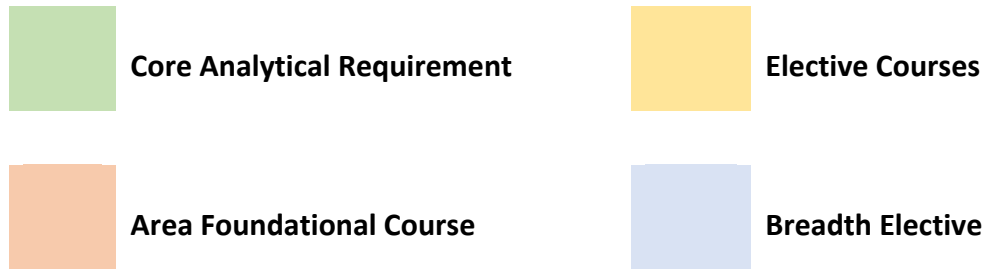


# MS Applied Physics

## Example Program Schedules



### Electromagnetic Wave Propagation and Scattering

Semester 1 (Fall)	Semester 2 (Spring)	Semester 3 (Fall)
EE 604 Analytical and Algorithmic Methods of Applied Physics (4)	EE 570a Advanced Electromagnetic Theory (4)	EE 571 Wave Interactions with Random and Inhomogeneous Media (4)
AME 508 Machine Learning and Computational Physics (4)	EE 551 Principles of Radar (4)	EE 573a Antenna Systems Engineering (4)
	EE 530 Optical Materials, Instruments, and Devices (4)	
(8 units total)	(12 units total)	(8 units total)

## Photonics and Optics

Semester 1 (Fall)	Semester 2 (Spring)	Semester 3 (Fall)
EE 604 Analytical and Algorithmic Methods of Applied Physics (4)	EE 530 Optical Materials, Instruments, and Devices (4)	EE 529 Optics (4)
AME 508 Machine Learning and Computational Physics (4)	EE 540 Introduction to Quantum Electronics (4)	EE 566 Optical Information Processing (4)
	EE 578 Computational Electromagnetics for Engineers (4)	
(8 units total)	(12 units total)	(8 units total)

## Mechanics of Fluid and Solid Media

Semester 1 (Fall)	Semester 2 (Spring)	Semester 3 (Fall)
EE 604 Analytical and Algorithmic Methods of Applied Physics (4)	AME 506 Continuum Mechanics (4)	AME 515 Advanced Heat and Mass Diffusion (4)
AME 508 Machine Learning and Computational Physics (4)	AME 530a Dynamics of Incompressible Fluids (4)	AME 522 Non-Linear Dynamical Systems, Vibrations, and Chaos (4)
	EE 530 Optical Materials, Instruments, and Devices (4)	
(8 units total)	(12 units total)	(8 units total)