

Mechanical Engineering

Option 1

Alternative sample schedules are available at nyuad.nyu.edu/grids

Year 1

Fall Semester

Calculus with Applications or Calculus	Foundations of Science 1	Foundations of Science 2	First-year Writing Seminar
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Spring Semester

Multivariable Calculus	Computer Programming for Engineers	General Elective	Colloquium
	Ethics		

Year 2

Fall Semester

Linear Algebra	ECC: Digital Logic	ECC: Circuits	Core
	ECC: Statics	ECC: Conservation Laws	

Spring Semester

Differential Equations	Solid Mechanics	Fluid Mechanics	EM Physics
	Structural Components	Dynamics	

June Term

ECC: Design & Innovation

January Term

General Elective

Year 3

Fall Semester

Modeling and Analysis of Dynamical Systems	Thermodynamics	CAD	Colloquium
	Heat Transport	PDEs for Engineers	

Spring Semester

Mechanical Engineering Elective	Mechanical Engineering Elective	General Elective	Core
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January Term

General Elective

Year 4

Fall Semester

Engineering Materials	ECC: Numerical Methods	Instrumentation	Core
Capstone Design I	Thermal Systems		

Spring Semester

Capstone Design II	Probability and Statistics	Mechanical Engineering Elective	Core
	Mechanical Engineering Elective		

At least one additional general elective credit needs to be taken by the student at any semester to meet the graduation requirement of 140 total credits

Option 2

Year 1

Fall Semester

Calculus with Applications or Calculus	ECC: Computer Programming for Engineers	General Elective	First-year Writing Seminar
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Spring Semester

Multivariable Calculus	Foundations of Science 1	Foundations of Science 2	Colloquium
	Ethics		

January Term

ECC: Design & Innovation

Year 2

Fall Semester

Linear Algebra	ECC: Digital Logic	ECC: Circuits	Core
	ECC: Statics	ECC: Conservation Laws	

January Term

General Elective

Spring Semester

Differential Equations

Solid Mechanics
Structural Components

Fluid Mechanics
Dynamics

EM Physics

Year 3

Fall Semester

Modeling and Analysis of
Dynamical Systems

Thermodynamics
Heat Transport

CAD
PDEs for Engineers

Colloquium

January Term
General Elective

Spring Semester

Mechanical Engineering
Elective

Mechanical Engineering
Elective

General Elective

Core

Year 4

Fall Semester

Engineering Materials
Capstone Design I

ECC: Numerical Methods
Thermal Systems

Instrumentation

Core

Spring Semester

Capstone Design II

Probability and Statistics
Mechanical Engineering
Elective

Mechanical Engineering
Elective

Core

At least one additional general elective credit needs to be taken by the student at any semester to meet the graduation requirement of 140 total credits