

# General Engineering

## Sample Schedule

Alternative sample schedules are available at [nyuad.nyu.edu/grids](http://nyuad.nyu.edu/grids)

### Year 1

Fall Semester



Spring Semester

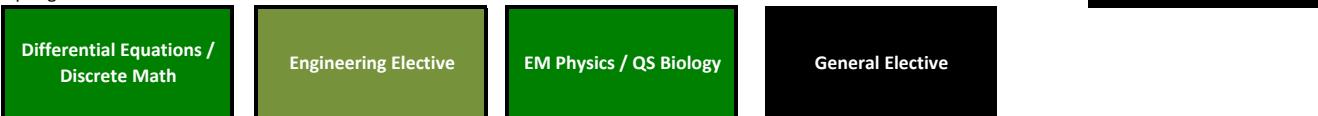


### Year 2

Fall Semester



Spring Semester



### Year 3

Fall Semester



Spring Semester



### Year 4

Fall Semester



Spring Semester



# General Engineering - for the Chemical and Biological Engineering specialization

Sample Schedule: Engineering electives may vary

You should discuss with your major mentor before proceeding with the following schedule

## Year 1

Fall Semester

Calculus with Applications or Calculus

ECC: Computer Programming for Engineers

General Elective

First-year Writing Seminar

January Term

ECC: Design & Innovation

Spring Semester

Multivariable Calculus

Foundations of Science 1

Foundations of Science 2

Colloquium

Ethics

## Year 2

Fall Semester

Linear Algebra

ECC: Statics

ECC: Conservation Laws

ECC: Digital Logic

ECC: Circuits

Core

January Term

Colloquium

Spring Semester

Differential Equations / Discrete Math

Fluid Mechanics

BioTransport Phenomena\*

EM Physics / QS Biology

General Elective

## Year 3

Fall Semester

Probability & Statistics

Thermodynamics\*

Analysis of Chem and Bio Processes\*

ECC: Numerical Methods

Engineering Elective

Core

January Term

Core

Spring Semester

Transport II\* (3cr)

Kinetics and Reactor Design\* (3cr)

Chem and Biomolecular Separations\* (3cr)

General Elective

General Elective(3 cr)

## Year 4

Fall Semester

Heat Transport

Instrumentation

Engineering Materials

General Elective

Capstone Design I

Discrete Math / ODE / PDE / Data Analysis

January Term

Spring Semester

Capstone Design II

Thermal Systems

Bio-sensors and Bio-chips

Core

# General Engineering - for the Computational Engineering specialization

Sample Schedule: Engineering electives may vary

You should discuss with your major mentor before proceeding with the following schedule

## Year 1

Fall Semester

Calculus with Applications or Calculus	ECC: Computer Programming for Engineers	Colloquium	First-year Writing Seminar	January Term
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Spring Semester

Multivariable Calculus	Foundations of Science 1	Foundations of Science 2	Colloquium	ECC: Design & Innovation
Ethics				

## Year 2

Fall Semester

Linear Algebra	ECC: Statics	ECC: Conservation Laws	Core	January Term
ECC: Digital Logic				

Spring Semester

Differential Equations	Eng Dynamics/Complex Variables	EM Physics / QS Biology	Probability and Statistics (MATH 2011Q)	General Elective
Discrete Math / ODE / PDE / Data Analysis				

## Year 3

Fall Semester

Engineering Materials	Computer Vision	Data Structures and Algorithms	Mathematical Modeling (MATH 2410)	January Term
ECC: Numerical Methods				

Spring Semester

General Elective	CS-UY 4613 Artificial Intelligence (3cr)	ECE-UY 3054 Signals and Systems (4cr)	MA-UY 2114 Calc III (4cr)	General Elective (3 cr)
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## Year 4

Fall Semester

Discrete Math / ODE / PDE / Data Analysis	Instrumentation	Applied Machine Learning	Core
Capstone Design I			

Spring Semester

Capstone Design II	Core	General Elective	Core
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# General Engineering - for the Human Computer Interaction specialization

Sample Schedule: Engineering electives may vary

You should discuss with your major mentor before proceeding with the following schedule

## Year 1

Fall Semester



Spring Semester

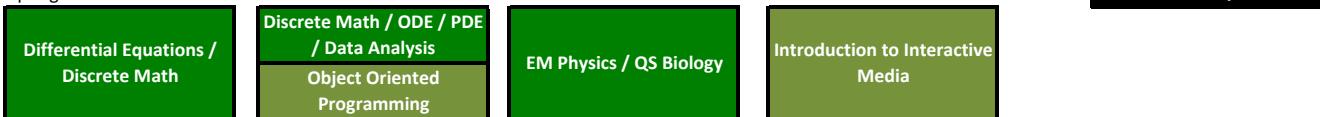


## Year 2

Fall Semester



Spring Semester



## Year 3

Fall Semester



Spring Semester



## Year 4

Fall Semester



Spring Semester



# General Engineering - for the Regenerative Medicine specialization

Sample Schedule: Engineering electives may vary

You should discuss with your major mentor before proceeding with the following schedule

## Year 1

Fall Semester

Calculus with Applications or Calculus

ECC: Computer Programming for Engineers

General Elective

First-year Writing Seminar

January Term

ECC: Design & Innovation

Spring Semester

Multivariable Calculus

Foundations of Science 1

Foundations of Science 2

Colloquium

Ethics

## Year 2

Fall Semester

Linear Algebra

ECC: Statics

ECC: Conservation Laws

Probability & Statistics

ECC: Digital Logic

ECC: Circuits

ECC: Numerical Methods

January Term

General Elective

Spring Semester

Ordinary Differential Equations

Engineering Materials

QS Biology

General Elective

Intro to Data Analysis for Engineers

Tissue Engineering

## Year 3

Fall Semester

BMS-UY 1003 or 1004  
Introduction to cell and molecular biology

ME-UY 4633 Biomaterials

BE-GY 9443 Tissue Engineering\*\*\*

BE-GY 6103 Anatomy, Physiology, and Biophysics\*\*\*

January Term

General Elective

Spring Semester

Core

Engineering Elective

Colloquium

Core

## Year 4

Fall Semester

Engineering Elective  
Capstone Design I

Instrumentation

Biomechanics  
Biomaterials

Core

Spring Semester

Capstone Design II

Engineering Elective

General Elective

Core