











YEAR 1

-  **CHEM 1011 & 1012**
Enriched General Chemistry I & II
-  **MATH 1004**
Calculus for Engineering or Physics
- MATH 1005**
Differential Equations and Infinite Series for Engineering or Physics
- MATH 1104**
Linear Algebra for Engineering or Physics
-  **PHYS 1003**
Introductory Mechanics and Thermodynamics
&
PHYS 1004
Introductory Mechanics and Thermodynamics I & II
-  **0.5 CREDIT IN:**
NSCI 1000
Seminar in Science



YEAR 2

-  **CHEM 2103 & 2104**
Physical Chemistry I & II
- CHEM 2501**
Introduction to Inorganic and Bioinorganic Chemistry
- 1.0 CREDIT FROM:**
CHEM 2203 & 2204
Organic Chemistry I & II
CHEM 2302 & 2303
Analytical Chemistry I & II
-  **ELEC 2501**
Circuits and Signals
- ELEC 2507**
Electronics I
- 0–0.5 CREDIT FROM:**
ELEC 2607
Switching Circuits
-  **MATH 2004**
Multivariable Calculus for Engineering or Physics

YEAR 3

-  **CHEM 3107**
Experimental Methods in Nanoscience
- CHEM 3503**
Inorganic Chemistry I
- CHEM 3600**
Introduction to Nanotechnology
-  **ELEC 3908**
Physical Electronics
- ELEC 3105**
Electromagnetic Fields
- 0.5–1.0 CREDIT FROM:**
ELEC 3500
Digital Electronics
ELEC 3509
Electronics II
ELEC 3909
Electromagnetic Waves
-  **STAT 3502**
Probability and Statistics

YEAR 4

-  **CHEM 4908**
Research Project and Seminar
- 1.0 CREDIT FROM:**
CHEM 4103
Surface Chemistry and Nanostructures
CHEM 4104
Physical Methods of Nanotechnology
CHEM 4201
Macromolecular Nanotechnology
-  **ELEC 4609**
Integrated Circuit Design and Fabrication
- ELEC 4700**
The Physics and Modeling of Advanced Devices and Technologies
- ELEC 4704**
Nanoscale Technology and Devices
- 1.0 CREDIT FROM:**
ELEC 4103
Surface Chemistry and Nanostructures
ELEC 4104
Physical Methods of Nanotechnology
ELEC 4201
Macromolecular Nanotechnology

1.5 credits in Advanced Science Faculty Electives

0.5 credit in Science Continuation (not CHEM)

1.5 credits in approved courses outside the faculties of Science and Engineering and Design

1.0 credit in free electives



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