### FIRST YEAR

#### FALL SEMESTER
- **GE A**
- **WRIT 150**
- **MATH 125** (GE F)
- **CHEM 105aL** (GE E)
- **ENGR 102**

#### SPRING SEMESTER
- **CHEM 120, CHEM 105aL**
- **MATH 126 or MATH 129**
- **CHEM 105bL**
- **PHYS 151L** (GE E)
- **OPTIONAL ELECTIVE**

### SECOND YEAR

#### FALL SEMESTER
- **CHEM 330** (MATH 226)
- **MATH 226 or MATH 229**
- **PHYS 152L** (GE E)
- **CHEM 305**
- **OPTIONAL ELECTIVE**

#### SPRING SEMESTER
- **CHEM 322aL**
- **MATH 245**
- **CHEM 350**
- **CHEM 444aL**

### THIRD YEAR

#### FALL SEMESTER
- **CHEM 430**
- **CHE 443**
- **PTE 461**
- **PTE 463L**
- **CHE 444bL**

#### SPRING SEMESTER
- **PTE 464L**
- **CHE 442**
- **CHE 447**
- **CHE 444cL**

### FOURTH YEAR

#### FALL SEMESTER
- **CHE 485**
- **CHE 460L**
- **PTE 465L**
- **OPTIONAL ELECTIVE**

#### SPRING SEMESTER
- **GE C**
- **CHE 480**
- **WRIT 340**
- **OPTIONAL ELECTIVE**

### MATHEMATICS (16 UNITS)
- **MATH 125:** Calculus I
- **MATH 126 OR MATH 129:** Calculus II
- **MATH 225 OR MATH 229:** Calculus III
- **MATH 245:** Mathematics of Phys. and Engr.

### PHYSICS (8 UNITS)
- **PHYS 151L:** Mechanics and Thermodynamics
- **PHYS 152L:** Electricity and Magnetism

### CHEMISTRY (16 UNITS)
- **CHEM 105AL:** General Chemistry
- **CHEM 105BL:** General Chemistry
- **CHEM 322aL:** Organic Chemistry
- **CHEM 330:** Physical Chemistry: Thermodynamics & Kinetics

### GENERAL EDUCATION (32 UNITS)
- **GE A** The Arts (1 Course)
- **GE B** Humanistic Inquiry (2 Courses)
- **GE C** Social Analysis (2 Courses)
- **GE D** Life Sciences (1 Course)
- **GE E** Physical Sciences (1 Course)
- **GE F** Quantitative Reasoning (1 Course)
- **GE G, H** Global Perspectives (2 Courses)*
- **GESM** General Education Seminar (1 Course)*

### WRITING (7 UNITS)
- **WRIT 150:** Writing and Critical Reasoning
- **WRIT 340:** Advanced Writing

### ENGINEERING (63 UNITS)
- **CHE 120:** Intro. to Chemical Engineering
- **CHE 305:** Numerical & Statistical Analysis for Chemical Engineers
- **CHEM 330:** Chemical Eng. Thermodynamics
- **CHE 350:** Intro. to Separation Processes
- **CHE 442:** Chemical Reactor Design
- **CHE 443:** Viscous Flow
- **CHE 444aL:** Chemical Engineering Lab
- **CHE 444bL:** Chemical Engineering Lab
- **CHE 444cL:** Chemical Engineering Lab
- **CHE 460L:** Chemical Process Dynamics & Control
- **CHE 480:** Chem. Process and Plant Design
- **CHE 485:** Computer Aided Chemical Process Design
- **ENGR 102:** Engineering Freshman Academy
- **PTE 461:** Formation Data Sensing with Well Logs
- **PTE 463L:** Modeling and Simulation of Subsurface Flow Systems
- **PTE 465L:** Drill. Tech. & Subsurface Meth.

### SPECIAL NOTES
Courses with the AP/IB symbol may be satisfied with AP, IB or A-Level exams. See page 17 for more information.

**GE:** Engineering students are encouraged to satisfy GE G and GE H with a course that also satisfies a Core Literacy. GE H may be satisfied by exam. Additionally, your GESM course should be taken in categories A, B, C, or D only. See page 21 for more information and consult your advisor for detailed assistance.