



## Chemical Engineering

### A. Orientation

COE 5000 - DLSU Orientation

### B. Basic Subjects

COE 5200 – Methods of Research

### C. Advanced Mathematics (Required 6 units)

COE 5100 – Statistical Design

COE 5320 – Numerical Methods

COE 5330 – Advanced Mathematical Methods

### D. Foundation Subjects (Required 12 units for MEng)

### E. Major Subjects (Required 15 units for MS)

#### Process Control

CHE 6800 - Process Control

CHE 6810 - Advanced Process Control

CHE 6820 - Process and Equipment Design

CHE 6830 - Chemical Process Design

CHE 6840 - Process Modeling Simulation

#### Environmental Engineering

ENVI 501 – Environmental Engineering

ENVI 502 – Strategic Planning and Management

ENVI 503 – Environmental Law and Ethics

ENVI 504 – Total Environmental Quality Management

ENVI 506 – Product and Process Design for Environmental Engineering

ENVI 601 – Water and Wastewater Treatment

ENVI 602 – Air Pollution Control

ENVI 603 – Solid Waste Management

ENVI 604 – Toxic and Hazardous Waste Management

ENVI 605 – Environmental Impact Assessment

ENVI 606 – Risk Assessment and Management

ENVI 607 – Occupational Health and Safety Engineering

ENVI 608 – Environmental Fate Analysis

ENVI 609 – Environmetrics

ENVI 610 – Environmental System Modeling

ENVI 611 – Environmental Economics

ENVI 612 – Human Factors Engineering

ENVI 813 – Special Topics in Environmental Engineering

#### Biochemical Process

CHE 6900 – Biotechnological Engineering

CHE 6910 – Optimization and Control Fermentation Process

CHE 6920 – Enzyme Engineering

CHE 6930 – Downstream Processing

CHE 8120 – Special Topics in Biotechnology



De La Salle University

**Energy Engineering**

CHE 7100 – Energy Engineering  
CHE 7110 - Energy and Environmental Management  
CHE 7130 - Biomass Production and Conversion  
CHE 7140 - Geothermal Energy

**Corrosion Engineering**

CHE 7200 – Corrosion Engineering  
CHE 8150 – Special Topics in Corrosion Engineering