### BEng in Chemical Engineering

#### Major Requirements

- **Engineering Fundamentals Courses**
  - CHEM 1013: Introduction to Chemical and Biological Engineering
  - CHEM 1020: Introduction to Biological Engineering
  - CHEM 1022P: Introduction to Biomedical Engineering
  - CHEM 1020/1022P/2011/2012H: Introduction to Biomedical Engineering

- **Chemical and Biological Reaction Engineering**
  - CHEM 2112: Chemical and Biological Reaction Engineering

- **Transport Phenomena I**
  - CHEM 2303: Transport Phenomena I

- **Financial Management**
  - ECON 3950: Financial Management

- **Laboratory for General Chemistry I**
  - CHEM 2220: Laboratory for General Chemistry I

- **Introduction to Multivariable Calculus**
  - MATH 1112: Introduction to Multivariable Calculus

- **Business Ethics and Social Responsibility**
  - ISOM 2010: Business Ethics and Social Responsibility

- **Behavioral Foundations of University Education: Habits, Mindsets, and Wellness**
  - ISOM 2011: Behavioral Foundations of University Education: Habits, Mindsets, and Wellness

- **Academic and Professional Development I**
  - ISOM 3010: Academic and Professional Development I

- **Academic and Professional Development II**
  - ISOM 3020: Academic and Professional Development II

- **Engineering Seminar Series**
  - CENG 4920: Engineering Seminar Series

- **Process Dynamics and Control**
  - CHEM 3123: Process Dynamics and Control

- **Separation Processes**
  - CHEM 4020: Separation Processes

- **Business Statistics**
  - MGMT 3000: Business Statistics

- **Advanced Academic Writing**
  - MATH 3060: Advanced Academic Writing

- **Professional Speaking for the Workplace**
  - MATH 3061: Professional Speaking for the Workplace

- **Entrepreneurship and Innovation**
  - MATH 3100: Entrepreneurship and Innovation

- **Managerial Leadership**
  - MATH 3101: Managerial Leadership

- **Judgement and Decision Making in Organizations**
  - MATH 3102: Judgement and Decision Making in Organizations

- **Honors Calculus I**
  - MATH 1020: Honors Calculus I

- **Honors Calculus II**
  - MATH 1023: Honors Calculus II

- **Honors General Physics I**
  - PHYS 1012: Honors General Physics I

- **Chemical Engineering Capstone Design**
  - CHEM 4930: Chemical Engineering Capstone Design

- **BBA major**
  - MATH 1013: Calculus IB
  - MATH 1014: Calculus IA

- **Additional Requirements**
  - MATH 1003: Calculus for Business

- **Electives**
  - MATH 1012: Calculus for Business

- **ISOM 2010**
  - ISOM 3010: Business Ethics and Social Responsibility

- **ISOM 2011**
  - ISOM 3011: Behavioral Foundations of University Education: Habits, Mindsets, and Wellness

- **ISOM 2010 and ISOM 2011**
  - ISOM 2010: Business Ethics and Social Responsibility
  - ISOM 2011: Behavioral Foundations of University Education: Habits, Mindsets, and Wellness

- **ISOM 2010**
  - ISOM 3010: Business Ethics and Social Responsibility

- **ISOM 2011**
  - ISOM 3011: Behavioral Foundations of University Education: Habits, Mindsets, and Wellness

- **ISOM 2010**
  - ISOM 3010: Business Ethics and Social Responsibility

### BBA in Management

- **School Requirements**
  - MGMT 2010: Professional Writing for the Workplace

- **Major Requirements**
  - MGMT 3100: Managerial Leadership
  - MGMT 3101: Managerial Leadership
  - MGMT 3102: Managerial Leadership
  - MGMT 3103: Managerial Leadership

- **Entrepreneurship and Innovation**
  - MGMT 3140: Entrepreneurship and Innovation

- **Behavioral Foundations of University Education: Habits, Mindsets, and Wellness**
  - ISOM 2010: Behavioral Foundations of University Education: Habits, Mindsets, and Wellness

- **Academic and Professional Development I**
  - ISOM 3010: Academic and Professional Development I

- **Academic and Professional Development II**
  - ISOM 3020: Academic and Professional Development II

- **Engineering Seminar Series**
  - CENG 4920: Engineering Seminar Series

- **Process Dynamics and Control**
  - CHEM 3123: Process Dynamics and Control

- **Separation Processes**
  - CHEM 4020: Separation Processes

- **Business Statistics**
  - MGMT 3000: Business Statistics

- **Advanced Academic Writing**
  - MATH 3060: Advanced Academic Writing

- **Professional Speaking for the Workplace**
  - MATH 3061: Professional Speaking for the Workplace

- **Entrepreneurship and Innovation**
  - MATH 3100: Entrepreneurship and Innovation

- **Managerial Leadership**
  - MATH 3101: Managerial Leadership

- **Judgement and Decision Making in Organizations**
  - MATH 3102: Judgement and Decision Making in Organizations

- **Honors Calculus I**
  - MATH 1020: Honors Calculus I

- **Honors Calculus II**
  - MATH 1023: Honors Calculus II

- **Honors General Physics I**
  - PHYS 1012: Honors General Physics I

- **Chemical Engineering Capstone Design**
  - CHEM 4930: Chemical Engineering Capstone Design

- **BBA major**
  - MATH 1013: Calculus IB
  - MATH 1014: Calculus IA

- **Additional Requirements**
  - MATH 1003: Calculus for Business

- **Electives**
  - MATH 1012: Calculus for Business

- **ISOM 2010**
  - ISOM 3010: Business Ethics and Social Responsibility

- **ISOM 2011**
  - ISOM 3011: Behavioral Foundations of University Education: Habits, Mindsets, and Wellness

- **ISOM 2010**
  - ISOM 3010: Business Ethics and Social Responsibility

- **ISOM 2011**
  - ISOM 3011: Behavioral Foundations of University Education: Habits, Mindsets, and Wellness

- **ISOM 2010**
  - ISOM 3010: Business Ethics and Social Responsibility

### Notes

- "^" indicates the mean of the same course to fulfill major or core requirement.
- "*" courses offered in water term.
- "**" courses offered in summer term.
- "( )" denotes the course requirement is either waived or substituted.
- All BBA graduates should complete all requirements as specified for DDP.

### Remarks

- DDP students should take MATH 1012 or MATH 1013 or MATH 1020 or MATH 1023 to fulfill the major elective requirement.
- Students have taken and passed COMP1021/1022P/2011/2012H can substitute ISOM 2010 and to waive ISOM 3010.
- Students in the Consulting Option must take MGMT 4210.
- Students in the Consulting Option must take MGMT 4220 and a new simulation course in Simulating Strategy to substitute MGMT 3103.
- Students in the Consulting Option are recommended to take MGMT 4210.
- Students in the CSR Option must take MGMT 4220 and a new simulation course in Simulating Strategy to substitute MGMT 3103.
- Students in the CSR Option must take MGMT 4210.
- Students can substitute the major elective requirement with any course in the “Business Management” stream.
- Note: All courses that are not specified will be used to substitute the major elective requirement.
- Note for undergraduate students: MGMT 3000-level or above Electives (Any 3 courses of the subject and level as specified.
- Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 to fulfill the major elective requirement.

### An Example on Student's Pathway (as of August 3, 2023)

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- **Declaration of major**
  - Year 1: Fall
  - Year 2: Spring
  - Year 3: Fall
  - Year 4: Spring
  - Year 5: Fall
  - Year 5: Spring

- **Declaration of Minor**
  - BEng major
  - BBA major

### Remarks

- The content of this example is not necessarily appointed to be a complete list of graduation requirements of the program. Students should refer to the Program Catalog/Faculty Curriculum Handbook for updated graduation requirements. For up-to-date information on course offering and scheduling, students should check it out from respective School and Department.