# BEng (Hons) Chemical Engineering

Chemical and Environmental Engineering / Faculty of Science and Engineering

## Year 1 Modules

| Module Code | Module Title | Credits |
| --- | --- | --- |
| CELEN120 | Foundation Algebra | 20 |
| CELEF008 | Introduction to Academic Skills | 10 |
| CELEN038 | The Scientific Method | 10 |
| CELEN122 | Foundation Electromagnetism and Mechanics | 20 |
| CELEN037 | Foundation Calculus and Mathematical Techniques | 20 |
| CELEN040 | Foundation Chemistry | 10 |
| CELEN052 | English in Specific Academic Contexts B (Engineering; Comp Sci; Env'mental Sci & Architecture) | 20 |
| CELEN082 | Oral Communication Skills B | 10 |

## Year 2 Modules

| Module Code | Module Title | Credits |
| --- | --- | --- |
| CHEE1022 | Fundamentals of Engineering Design | 20 |
| CHEE1023 | Fluid Mechanics | 10 |
| CHEE1041 | Process Engineering Principles | 20 |
| CHEE1042 | Chemistry for Engineers | 20 |
| MATH1047 | Mathematical Methods for Chemical and Environmental Engineering | 20 |
| CHEE1030 | Introductory Geology | 10 |
| CHEE1040 | Thermodynamics and Heat Transfer | 20 |

## Year 3 Modules

| Module Code | Module Title | Credits |
| --- | --- | --- |
| CHEE2027 | Chemical and Phase Equilibria | 10 |
| CHEE2029 | Interfacial Chemistry | 10 |
| CHEE2051 | Separation and Particle Technology | 20 |
| CHEE2050 | Process Design and Control | 20 |
| MATH2052 | Advanced Mathematical Modelling for Process Engineers | 20 |
| CHEE2030 | Process Engineering Project | 10 |
| CHEE2035 | Analytical Measurement | 10 |
| CHEE2052 | Materials and Sustainable Processes | 20 |

## Year 4 Modules

| Module Code | Module Title | Credits |
| --- | --- | --- |
| CHEE3029 | Multicomponent Separations | 10 |
| CHEE3031 | Process Simulation 1 | 10 |
| CHEE3032 | Reactor Design | 10 |
| CHEE3041 | Industrial Process Analysis | 10 |
| CHEE3042 | Process Engineering Laboratories | 10 |
| CHEE3034 | Design Project | 40 |
| CHEE3030 | Process Dynamics and Control | 10 |
| CHEE3033 | Advanced Transport Phenomena | 10 |
| CHEE3036 | Biochemical Engineering | 10 |