

CHEMICAL ENGINEERING, MINOR

Minor Requirements (18 Hours)

The Chemical Engineering minor requires:

| Course | Title | Credits |
|---|---|-----------|
| Required Courses (12 hours): | | |
| ECHE 300 | Chemical Process Principles | 3 |
| ECHE 311 | Chemical Engineering Thermodynamics | 3 |
| ECHE 320 or ENCP 360 | Chemical Engineering Fluid Mechanics Fluid Mechanics | 3 |
| ECHE 440 | Separation Process Design | 3 |
| Chemical Engineering Minor Electives (6 hours) : 6 additional hours selected from: | | 6 |
| Minor Electives that do not require MATH 242 | | |
| ECHE 372 | Introduction to Materials | |
| ECHE 389 | Special Topics in Chemical Engineering | |
| ECHE 521 | Computational Fluid Dynamics for Engineering Applications | |
| ECHE 571 | Corrosion Engineering | |
| ECHE 572 | Polymer Processing | |
| ECHE 573 | Next Energy | |
| ECHE 575 | Engineering of Soft Materials | |
| ECHE 589 | Special Advanced Topics in Chemical Engineering | |
| Minor Electives that require MATH 242 as pre-requisite | | |
| ECHE 321 | Heat-Flow Analysis ¹ | |
| ECHE 430 | Chemical Engineering Kinetics ² | |
| ECHE 456 | Computational Methods for Engineering Applications ³ | |
| ECHE 550 | Chemical-Process Dynamics and Control ⁴ | |
| Total Credit Hours | | 18 |

¹ Requires MATH 242 as a pre-requisite, and ECHE 456 as a pre-requisite or co-requisite

² Requires ECHE 321 as a pre-requisite or co-requisite, or BMEN 354 as a pre-requisite.

³ Requires MATH 242 as a pre-requisite or co-requisite

⁴ Requires both MATH 242 and ECHE 456 as a pre-requisites