## Transfer Plan: SFCC to UI

## B.S. DEGREE PROGRAM IN CHEMICAL ENGINEERING – Catalog Year 2022/23

***This plan assumes a student completes the Associate of Science degree at SFCC before transferring to UI.***

| | Course Title/Requirement at SFCC | COMMENTS | Credits |
|---|---|---|---|
| **First Quarter @ SFCC** | | | |
| CHEM& 161 | General Chemistry I/Lab I | UI Chem 101/101 Lab | 5 |
| ENGL& 101 | English Composition I | UI Engl 101 | 5 |
| MATH& 151 | Calculus I | | 5 |
| | | | **15** |
| **Second Quarter @ SFCC** | | | |
| CHEM& 162 | General Chemistry II/Lab II | UI Chem 111/111 Lab | 5 |
| MATH& 152 | Calculus II | UI Math 170 | **5** |
| **Elective: choose 5 cr from** | ENGR 110 (3) or ENGR 111 (2) or ENGR 240 (5) | 110=Engr 102 sub for CHE 123 | 5 |
| | | | **15** |
| **Third Quarter @ SFCC** | | | |
| CHEM& 163 | General Chemistry III/Lab III | UI Chem 112/112 Lab | 5 |
| MATH& 153 | Calculus III | UI Math 175 | **5** |
| **Choose 1 course from** | ANTH& 100 (5) or SOC% 201 (5) | UI Anth 250, Soc 230 | 5 |
| | | | **18** |
| **Summer @ SFCC** | | | |
| **Choose 1 course from** | CMST 226 Gender Communication | | 5 |
| | CMST 227 Intercultural Communication | UI Comm 335, Soc. Sci. | 5 |
| | MUSC& 105 Music Appreciation | UI MUSI 100, Humanities | 5 |
| | PHIL 110 Intro to Ethics | UI PHIL 103, Humanities | 5 |
| | PHIL& 115 Critical Thinking | UI PHIL 201, Humanities | 5 |
| | | | **5** |
| **Fourth Quarter @ SFCC** | | | |
| CHEM& 241 | Organic Chemistry I | | 3 |
| CHEM& 242 | Organic Chemistry I Lab | | 2 |
| MATH 220 | Elementary Linear Algebra | UI MATH 330 | 5 |
| PHYS 201 | Engineering Physics I | UI PHYS 211/211 Lab | 5 |
| | | | **15** |
| **Fifth Quarter @ SFCC** | | | |
| CHEM& 242 | Organic Chemistry II | CHEM 277 | 3 |
| CHEM& 252 | Organic Chemistry II Lab | CHEM 278 | 2 |
| MATH& 254 | Calculus IV | Math 275 | 5 |
| PHYS 202 | Engineering Physics II | PHYS 212/212 Lab | 5 |
| | | | **15** |
| **Sixth Quarter @ SFCC** | | | |
| ECON& 202 | Macro Economics | ECON 201 | 5 |
| MATH 274 | Elementary Differential Equations | MATH 310 | 5 |
| PHYS 203 | Engineering Physics III | PHYS 213/213 Lab | **5** |
| | | | 15 |
| **YEAR 3 FALL @ UI** | | | |
| ChE 220 Prog. for Chem Engineers | | | 3 |
| ENGR 210 | Engineering Statics | | 3 |
| CHEM 372 | Organic Chemistry II | | 3 |
| CHEM 374 | Organic Chemistry II Lab | | 1 |
| Elective | Upper division | | 3 |
| | | | **13** |
| **YEAR 3 SPRING @ UI** | | | |
| ChE 223 | Material & Energy Balances | | 3 |
| ENGR 320 | Thermo & Heat Transfer | | 3 |
| ENGR 335 | Fluid Mechanics | | 3 |
| CHEM 305 | Physical Chemistry | | 3 |
| CHEM 307 | Physical Chemistry Lab | | 1 |
| | | | **13** |
| **YEAR 4 FALL @ UI** | | | |
| ChE 326 | ChE Thermodynamics | | 3 |
| ChE 340 | Trans & Rate Processes I | | 4 |
| ChE/BE Elective | 390 or higher | | 3 |
| Elective | Upper Division | | 3 |
| | | | **13** |

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|---|---|---|---|
| **YEAR 4 SPRING @ UI** | | | |
| ChE 330 | Separation Processes | | 3 |
| ChE 341 | Trans & Rate Processes II | | 4 |
| **Technical Electives** | Upper division | | 6 |
| | | | **13** |
| **YEAR 5 FALL @ UI** | | | |
| ChE 433 | Chem Engr Lab I | | 1 |
| ChE 444 | Process Analysis & Control | | 3 |
| ChE 453 | Process Analysis & Design I | | 3 |
| BE 491 | Senior Seminar | Senior standing | 1 |
| | | | **8** |
| **YEAR 5 SPRING @ UI** | | | |
| ChE 434 | Chem Engr Lab II | | 1 |
| ChE 454 | Process Analysis & Design II | | 3 |
| | | | **4** |

A student transferring into Chemical Engineering at UI could certainly consider adding a minor given the light credit load for the last 2 semesters.