

## CHEMICAL ENGINEERING COURSE EQUIVALENTS 2004 Edition

University of Alberta		University of Calgary	
<b>04-CHEM-A1</b> CH E 265 &	Process Balances & Chemical Process Analysis	I Thermodyna ENCH 315	mics Chemical Engineering Process Calculation
CH E 343	Chemical Engineering Thermodynamics	& ENCH 427	Chemical Engineering Thermodynamics
<b>04-CHEM-A2</b> CH E 312 &	Mechanical & Thermal Operat Fluid Mechanics	ions ENCH 331 &	Process Fluid Dynamics
CH E 314	Heat Transfer	ENCH 403	Heat and Mass Transfer
<b>04-CHEM-A3</b> CH E 316 &	Mass Transfer Operations Equilibrium Stage Processes	ENCH 405 &	Separation Processes I
CH E 418	Diffusion Operations	ENCH 505	Separation Processes II
<b>04-CHEM-A4</b> CH E 434	Chemical Reactor Engineering Chemical Reactor Analysis	g ENCH 521	Chemical Engineering Kinetics
<b>04-CHEM-A5</b> CH E 365	Plant Design and Economics Chemical Engineering Design I	ENCH 423	Chemical Engineering Processing Development
<b>04-CHEM-A6</b> CH E 446	Process Dynamics and Control Process Dynamics & Control	ol ENCH 529	Process Dynamics and Control
<b>04-CHEM-B1</b> CH E 312 &	Transport Phenomena Fluid Mechanics	ENCH 631	Fundamentals of Transport Phenomena
CH E 314 &	Heat Transfer		· ·····································
∝ CH E 418	Diffusion Operations		

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04-CHEM-B2 CH E 502 & CIV E 321 & CIV E 421	Environmental Engineering Environmental Impact of the Process Industries  Principles of Environmental Modelling and Risk  Processes for Public Health and Environmental Protection	ENCH 643 & ENCH 645	Environmental Engineering Aspects of Water and Soil Pollution Environmental Engineering Aspects of Air Pollution
<b>04-CHEM-B3</b> CH E 555	Simulation, Modelling and Op Process Optimization	timization ENCH 501 &	
& CH E <b>572</b>	Process Modelling and Simulation	ench 627	Chemical Process Simulation
<b>04-CHEM-B4</b> CH E 390	Biochemical Engineering Introduction to Biochemical Engineering	ENCH 535	Principles of Biochemical Engineering
<b>04-CHEM-B5</b> CH E 580	Pulp and Paper Technology Pulp and Paper Manufacture, Chemical Engineering, and Environmental Impact		No Course Equivalent
<b>04-CHEM-B6</b> CH E 522	Petroleum Refining and Petro Hydrocarbon Fluid Properties and Processing	chemicals ENCH 503	Upgrading and Refining Processes
<b>04-CHEM-B7</b> MAT E 430	Extractive Metallurgy Hydrometallurgy and Electrometallurgy		No Course Equivalent
<b>04-CHEM-B8</b> CH E 538 &	Polymer Engineering Polymer Reactor Engineering	ENCH 539	Polymer Engineering
CH E 539	Introduction to Polymer Science & Technology		
04-CHEM-B9	Advanced Materials No Course Equivalent		No Course Equivalent

## 04-CHEM-B10 Life Cycle Assessment (LCA)

No Course Equivalent

No Course Equivalent

## 04-CHEM-B11 Fundamental Reservoir Engineering (98-Pet-A3)

PET E 473 Fundamental Reservoir ENPE 523 Reservoir Engineering I

Engineering

## 04-CHEM-B12 Petroleum Production Operations (98-Pet-A5)

PET E 366 Petroleum Production ENPE 533 Petroleum Production

Operations Engineering

**Revised April 2004**