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	Current Version			Proposed Version	
	QUALITY ASSURANCE			QUALITY ASSURANCE	
	Submitting a New/Change to a Program Proposal? mandatory Quality Assurance Requirements	Submitting a New/Change to a Program Program of Mandatory Quality Assurance Requirement:			
Program Code:	BENGDIP.CHEM			BENGDIP.CHEM	
AcademicLevel:	Undergraduate			Undergraduate	
StartTerm:	Fall 2004			Fall 2004 2013	
EndTerm:	No Specified End Date			No Specified End Date [?]	
InstitutionUnit:	Lakehead University Faculty of Engineering			Lakehead UniversityFaculty of Engineering	
Title:	Bachelor of Engineering (Chemical Engineering)			Bachelor of Engineering (Chemical Enginee	
DegreeType:	BENG			BENG	
Major:	CHEL			CHEL	
Minor:					
Specialization:					
Rationale for this proposal:				To coincide with Lec/Lab hours listed in I Course listing2. Remove electives not offer the Chemical Engineering Program outline.	
Description:	BEng w Dipl (Chemical)			BEng w Dipl (Chemical)	
Credits:					
Requirements:	Four Year program			Four Year program	
	First Year: Fall Term	Lec	Lab	First Year: Fall Term	
	Engineering 1135 - Introduction to Chemical Engineering Calculations	3	1.5	Engineering 1135 - Introduction to Chemic Engineering Calculations	
	Engineering 1633 - Introduction to Engineering Drawing and CAD	1	2	Engineering 1633 - Introduction to Engineer Drawing and CAD	
	Chemistry 1110 - Modern Chemistry I	3	3	<u>Chemistry 1110</u> - Modern Chemistry I	
	English 1238 - Technical Writing II	3	0	English 1238 - Technical Writing II	
	Mathematics 1071+ - Vectors and Matrices	3	2	Mathematics 1071+ - Vectors and Matrices	
	Mathematics 1210 - Calculus I	<u>3</u>	1	Mathematics 1210 - Calculus I	
	16 9.5				
	+Students who have completed Gr. 12U Calculus and Vectors with a minimum grade of 60% are not required to take <u>Mathematics 1071</u> .			+Students who have completed Gr. 12U C minimum grade of 60% are not required to	
	First Year: Winter Term	Lec	Lab	First Year: Winter Term	
	Engineering 1137 - Pulp and Paper Manufacture	3	1.5	Engineering 1137 - Pulp and Paper Manufa	
	Engineering 1554 - Unit Operations I	3	1.5	Engineering 1554 - Unit Operations I	
	Engineering 1635 - Fluid Mechanics	3	1.5	Engineering 1635 - Fluid Mechanics	
	Chemistry 1130 - Modern Chemistry II	3	3	Chemistry 1130 - Modern Chemistry II	
	** <u>Computer Science 1411</u> - Computer Programming I	3	1	**Computer Science 1411 - Computer Programming I	
	Mathematics 1230 - Calculus II	3	1	Mathematics 1230 - Calculus II	
		18	9.5		
	Second Year: Fall Term	Lec	Lab	Second Year: Fall Term	
	Engineering 2151 - Electrical and Electronics Technology	3	1.5	Engineering 2151 - Electrical and Electroni Technology	
	Engineering 2330 - Applied Chemical	3	1	Engineering 2330 - Applied Chemical	
	The same and an exercise				
	Thermodynamics Engineering 2331 - Unit Operations II	3	1.5	Thermodynamics Engineering 2331 - Unit Operations II	

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Zone 2: Budgetary Considerations				
	Current Version	Proposed Version		
	Please Complete Each Section and provide explanations for both Yes and No answers.	Please Complete Each Section and provide explanations for both Yes and No answers.		
Student Enrolment:		NO [?]		
Student Enrolment Other Units:		NO [?]		
Additional Resources:		NO [?]		
Teaching Loads:		NO [?]		
Teaching Support Services :		NO [?]		
Outside Support:		NO [?]		

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