

Navigator Suite



My Account

User: Amanda Trevisanutto

[Manage Your Account](#)

Edit Resources

My Curriculum

Assigned curriculum requests (152) [view](#)

Submitted curriculum requests (0) [view](#)

Your working folder contains: [view](#)

- 0 curriculum requests
- 0 courses
- 0 degrees
- 0 programs

Quick Links

Manage Courses

[Add New Course](#)

[Search For Course](#)

- Copy Course
- Create New Version of Course
- Discontinue Course

Catalog Curriculum Admin

[Logout](#) | [Home](#)

Course Details

[Generate Pdf Report](#)

Course Details	Prerequisites	Corequisites	Exclusions	Cross Listed	Designations
Supporting Documents					

Course Status: In Workflow Request ([View History](#))

[Where Used Report](#)

Change Type: New Version

[Hide Differences](#)

Zone 1: Required Information	
Current Version	Proposed Version
InstitutionUnit:	
<ul style="list-style-type: none"> • Lakehead University • Faculty of Engineering 	<ul style="list-style-type: none"> • Lakehead University • Faculty of Engineering
StartTerm: Fall 2012	Fall 2012 2013
EndTerm: No Specified End Date	No Specified End Date [?]
Code: Engineering 4432	Engineering 4432 [?]
Title: Chemical Plant Design II	Chemical Plant Design-II
AcademicLevel: Undergraduate	Undergraduate
CreditWeight: 0.5	0.5

Zone 2: Required Information – Detailed	
Current Version	Proposed Version
Course Description:	
Review of equipment sizing in major unit operations of fluid flow, heat transfer and mass transfer. Optimization considerations. Materials and fabrication selections. Training in plant layout, planning tools, design report preparation and oral presentation. Emphasis on health and safety and loss prevention considerations in chemical processes. Completion of the major group design project commenced in Engineering 4132 - Chemical Plant Design I.	Review of equipment sizing in major unit operations of fluid flow, heat transfer and mass transfer. Optimization considerations. Materials and fabrication selections. Training in plant layout, planning tools, design report preparation and oral presentation. Emphasis on health and safety and loss prevention considerations in chemical processes. Completion of the major group design project commenced in Engineering 4132 — Chemical Plant Design I Overview of the design process; synthesis of process flow diagrams; steady state flow-sheet simulation; waste minimization and treatment; selection of plant location and layout; detailed design, sizing and costing of major unit operations (reactors, separation equipment, heat exchangers, pumps, compressors and expanders); training in teamwork and report preparation for the capstone design project.
Rationale for this proposal:	Changes to reflect the current course content in preparation for accreditation.
Required or Elective:	[?]
Cross List:	
Offering: 0-0; 3-1.5	0-0 -3-1.5; 0-0 [?]

Zone 3: Additional Information	
Current Version	Proposed Version
Prerequisites:	
Corequisites:	
Notes (Restrictions):	[?]

Zone 4: Budgetary Considerations**Current Version**

Please Complete Each Section and Provide Explanations for Both Yes and No Answers.

Student Enrolment:

Student Enrolment
Other Units:

Additional Resources:

Teaching Loads:

Teaching Support
Services:

Outside Support:

Proposed Version

Please Complete Each Section and Provide Explanations for Both Yes and No Answers.

No [?]

No [?]

No [?]

No [?]

No [?]

No [?]

Back

Navigator Suite



My Account

User: Amanda Trevisanutto

[Manage Your Account](#)

Edit Resources

My Curriculum

Assigned curriculum requests (152) [view](#)

Submitted curriculum requests (0) [view](#)

Your working folder contains: [view](#)

- 0 curriculum requests
- 0 courses
- 0 degrees
- 0 programs

Quick Links

Manage Courses

[Add New Course](#)

[Search For Course](#)

- Copy Course
- Create New Version of Course
- Discontinue Course

Catalog Curriculum Admin

[Logout](#) | [Home](#)

Course Details

[Generate Pdf Report](#)

Course Details	Prerequisites	Corequisites	Exclusions	Cross Listed	Designations
Supporting Documents					

Course Status: In Workflow Request ([View History](#))

[Where Used Report](#)

Change Type: New Version

[Hide Differences](#)

Zone 1: Required Information	
Current Version	Proposed Version
InstitutionUnit: <ul style="list-style-type: none"> • Lakehead University • Faculty of Engineering 	<ul style="list-style-type: none"> • Lakehead University • Faculty of Engineering
StartTerm: Fall 2012	Fall 2012
EndTerm: No Specified End Date	No Specified End Date [?]
Code: Engineering 4132	Engineering 4132 [?]
Title: Chemical Plant Design I	Chemical Plant Design I Economics
AcademicLevel: Undergraduate	Undergraduate
CreditWeight: 0.5	0.5

Zone 2: Required Information – Detailed	
Current Version	Proposed Version
Course Description: Introduction to chemical plant design, process design and flowsheet development. General design considerations. Estimation of capital and product costs, interest and investment costs, annuities, taxes, insurance and depreciation. Profitability analysis. Alternative investments and replacements. Cost and asset considerations. A major group design project is started.	Introduction to Methods of chemical plant design, process design and flowsheet development. General design considerations. Estimation of capital and product costs, interest capital cost estimation and product cost estimation. Interest and investment costs, annuities, taxes, insurance and depreciation. Profitability analysis measures. Alternative investments and replacements, retirement and replacement decisions, and economic life of assets. Cost and asset considerations. A major group design project is started. accounting, financial management.
Rationale for this proposal:	To reflect the current course content in preparation for accreditation
Required or Elective:	<ul style="list-style-type: none"> • Required [?]
Cross List:	
Offering: 3-1.5; 0-0	0-0; 3-1.5; 0-0 [?]

Zone 3: Additional Information	
Current Version	Proposed Version
Prerequisites:	
Corequisites:	
Notes (Restrictions):	[?]

Zone 4: 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 [?]

[Back](#)