



Lakehead University

Faculty of Engineering

REQUEST REPORT

Request Tracking Number: 2014-ENG-3075

Request Title: Mech New Course Additions

[DeAcTerm[EffectiveDate]] [DeAc[RequestEffectiveDate]]

Request Status: In Workflow

Request can't be split

Request Contents

Type	Title
1. New Course	Thermal Sciences
2. New Course	Engineering Physics

Request History

Workflow Step	Workflow Action	User	Change Made	Comments	Date
Initiator	Approved	Laura Parker	No	Submitted to workflow	01/30/2014
Dean and Faculty Council Review Stage	Approved	David Barnett	No	approved	01/30/2014

Supporting Documents

File Name	Uploaded By	Upload Date	Size
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Supporting Documents Audit Trail

File Name	User	Date	Action
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Notes

Date	User	Note
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1.	New Course	Engineering 2XXXX - Thermal Sciences
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Course Details

Engineering 2XXXX - Thermal Sciences Start Term: Fall 2014 End Term: No Specified End Date
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<u>Course Details</u>
Code Engineering 2XXXX
Title Thermal Sciences
Description Basic concepts of thermodynamics; heat work and mass. Evaluating properties of gases and compressible substances. First law of thermodynamics and applications; closed and open system analysis. Introduction to heat transfer mechanisms; conduction, convection and radiation heat transfer. One-dimensional steady-state conduction in basic geometries with different boundary conditions and solving related problems. Generalized thermal resistance networks.
End Term No Specified End Date
Institution Lakehead University
Faculty Faculty of Engineering
CreditWeight 0.5
Rationale To comply with accreditation requirements. Combining 2 course into one; will reduce the number of makeup courses for some college transfer students.
Requiredor Elective Required
Cross List
Offering 3-1; 0-0
Prerequisites
Corequisites

Notes
SpecialTopicDropdown
GradeSchemePF
EffectonEnrolmentINIT No
EffectonEnrolmentOTHER NO
AdditionalTeachingSpace No
EffectonTeachingLoads No
EffectonServices No
DirectinkindSupport No

2.	New Course	Engineering 3XXXX - Engineering Physics
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Course Details

Engineering 3XXXX - Engineering Physics Start Term: Fall 2014 End Term: No Specified End Date

<u>Course Details</u>
Code Engineering 3XXXX
Title Engineering Physics
Description Periodic Motion; simple harmonic motion, resonance, elasticity. Vibration in elastic bodies. Nature of Waves; reflection, transmission, absorption and interference. Sound and Noise; intensity, shock wave and Doppler Effect. Optics; nature of light, colour, diffraction, interference and polarization.
End Term No Specified End Date
Institution Lakehead University
Faculty Faculty of Engineering
CreditWeight 0.5
Rationale To replace the science elective course in 3rd year to comply with accreditation requirements increasing Engineering natural science.
Requiredor Elective Required
Cross List
Offering 3-1; 0-0
Prerequisites
Corequisites

Notes
SpecialTopicDropdown
GradeSchemePF
EffectonEnrolmentINIT No
EffectonEnrolmentOTHER Yes - will slightly reduce enrolment in other science courses
AdditionalTeachingSpace No
EffectonTeachingLoads No
EffectonServices No
DirectinkindSupport NO