Purdue Northwest Curriculum Document Coversheet

Document No: (According to Instructions[1])	COT 17-19 NEW COURSE ECET33101	**Approval by Faculty Senate:** (Leave Blank)	January 12, 2018
Proposed Effective Date	Fall 2018	**Date Reviewed by Senate Curriculum Committee:** (Leave blank)	December 8, 2017
Submitting Department: (Name of both Dept & College/School)	ET COT	**Name(s) of Library Staff Consulted:** (NA if not required)	N/A
Date Reviewed by Department	November 15, 2017		
Submission Date: (Date sent to College/School Curr Comm after Dept Review)	November 16, 2017	**Will New Library Resources Used?**	☐ **Yes** ☒ **No** Double-click to check Yes / No.
Date Reviewed by College/School Curriculum Committee	November 17, 2017	**Form 40 Needed?** (Double-click one box.) Registrar will complete Form 40 **after** Senate approval of document.	☒ **Yes** New courses or any course change, check **YES** **No** For **all other** curriculum matters, check **NO**.
Contact Person(s): (Name & Title)	**Omer Farook**		

Unless marked "Leave blank" all parts of this form must be filled in **before** sending to Secretary of the Faculty Senate.

Task (check all that apply and fill out sections appropriate for each change).

☐ Program/Concentration Change or New Program/Concentration Proposal: Complete Section I, III, & IV

☐ Minor Change or New Minor Proposal: Complete Section I (delete sections III & IV)

☐ Certificate Change or New Certificate Proposal: Complete Section I (delete sections III & IV)

☒ Course Change or New Course Proposal: Complete Section II (delete sections III & IV)

Program name. Electrical Engineering Technology

Degree name(s). (If applicable.)

[1] http://faculty.pnw.edu/blog/curriculum-document-approval-procedures/

Section I: This section is for changes in programs, minors and certificates

List the major changes in each program of study, minor or certificate.
Impact on Students. (State "N/A" if proposal will not greatly affect students.)
Impact on University Resources. (State "N/A" if proposal will not require new resources, faculty or funds.) N/A.
Impact on other Academic Units. (State "N/A" if proposal will not affect other units.)(Include name of person in affected area discussed with) N/A

Section II: This section is for changes in courses only

Subject. (Brief description of proposed change, addition or deletion.)**Creating a 3 credit version of ECET 33100 four credit course.**
Justification. (Briefly list main reasons for proposed change, addition or deletion.) **Creating a 3 credit version of ECET 33100 four credit course.**

Use the **Current** and **Proposed** spaces below for course changes only. Otherwise, mark "N/A"

Current: (Course changes: include entire present catalog information. Leave blank if new course)	**Proposed:** (Course changes: include entire new catalog information.) **Title: Course Description: :** ECET 33101-Generation And Transmission Systems for Electrical Power **Course Description:** A study of the generation and transmission of electrical energy. Includes modeling and analysis of synchronous alternators, transformers, and transmission lines, plus analytical and computer methods of solving load flow and fault conditions on balanced and unbalanced three-phase systems. Introduces techniques used by utilities for protection and economic operation of power systems. Pre Req. : ECET 21201, minimum grade D-Credits and Contact Hours: Credit 3 , Class 2, Lab. 3, Contact Hours 5
Is this course also: ☐ **General Education**	**Currently Designated ExL (see instructions[2])** ☐

Course Objectives / Learning Outcomes. (New courses only. List main outcomes. If lengthy, attach separate page.)

1. Understanding the structure of the electrical power system.
2. Understanding the basic building blocks of an electrical power system and their functionality.

[2] http://faculty.pnw.edu/blog/curriculum-document-approval-procedures/

3. Understanding the power flow principles. 4. Understanding the cost associated with electrical generation transmission and distribution 5. Understanding the concept of smart grid, micro-grid and modern power system.
Impact on Students. (State "N/A" if proposal will not greatly affect students.) N/A
Impact on University Resources. (State "N/A" if proposal will not require new resources, faculty or funds.) N/A
Impact on other Academic Units. (State "N/A" if proposal will not affect other units.) N/A