

RSSC Members:

FYI...The New York Department of Public Service (NYSDPS) recommends the on-line programs of the Gonzaga University, for re-tooling electrical engineers as well as help them gain more in depth knowledge of transmission and distribution engineering. These programs are designed for working engineers, are taught on-line, and could be incorporated into your training schedules.

P.S: Please note that forwarding of this transmittal does not mean that the IESO supports any particular program or any university and is only sharing what is going around the various industry forums.

From: diane_barney
Sent: March 21, 2008 11:40 AM
To: rsc
Subject: TandD courses

Guy, et.al - I have sent the following to all my NARUC contacts and thought you might also be interested.

FYI - In response to the shortage of power engineers, Gonzaga University has created a certificate program designed to re-tool engineers from other disciplines. The program would also be useful for electrical engineers to gain more depth in transmission and distribution engineering. The program is designed for working engineers and is taught on-line.

Diane J. Barney
Office of Electricity, Gas & Water
New York State Department of Public Service
----- Forwarded by Diane Barney/OEGW/NYSDPS on 03/07/2008 01:25 PM -----
"McKinstry, Jilliene" <mckinstry@gonzaga.edu>

03/07/2008 12:20 PM

To

cc

Subject Gonzaga TandD courses available

Greetings from the Gonzaga University T&D program. We still have space available for registration for both TADP 540 Transmission Line Design Introduction and TADP 543 Electrical Grid Operations Courses. These courses start March 15, and cost is still \$2010 per 3 credit, graduate course. These are both offered online over an 8 week period with a flexible schedule that is appropriate for engineers working in the industry. I have attached a non-matriculated registration form which can be faxed back to me for registration.

Our website has a complete list of upcoming courses as well as other program information:
<http://www.eng.gonzaga.edu/tandd/> I have also attached information about both courses. If you have any further questions, please feel free to contact me. Have a great day. Jillinee

Jilliene McKinstry
Assistant Director
Transmission & Distribution Program
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Transmission Line Design- Introduction

Course Information: Fundamental aspects of transmission line structures, conductors, foundations, survey techniques, terrain modeling, computer-aided design, NESC code requirements and line design artifacts for construction & archiving. Overall, the course will provide civil, electrical, or mechanical engineering students an opportunity to think strategically about using standards-based methods in the design of overhead power lines over a given line route. Students will design sag and tension template by hand and spot a new transmission line.

Adjunct Faculty Information:

Gerald Proteau, B.S., M.E. Project Engineering Manager, WIRE Services, Manitoba Hydro,

Prasad Yenumula, Ph.D., MBA. M. Tech., B.Eng., Asset Manager (Transmission Lines), American Transmission Company,

Module Descriptions:

Module 1- Line Routing

Module 2 - Conductors and Loading

Module 3 - Foundations and Structures

Module 4 - Structure Spotting and Design Analysis

Module 5 - Design and Construction Outputs

Syllabus- Electrical Grid Operations

Course Information: Electrical Grid Operations. 3 credits. An examination and study of the fundamental operating principles, guidelines and policies of the WECC (Western Electricity Coordinating Council) that promote reliable interconnected grid operation.

The student will acquire the subject matter expertise and appreciation for the inner-workings of a large interconnects utility system. In addition, the students will develop a skill set that includes knowledge of how electricity is generated, transmitted, and consumed, as well as the ability to analyze complex transmission operational situations and make qualified judgments and recommendations to mitigate transmission related problems.

Instructors:

- **Tuan Tran**, B.S. Tacoma Power, Transmission & Distribution Supervisor - Operations and Planning
- **Steve Hitchens**, B.S. Electrical Engineer, Bonneville Power Administration, Technical Operations Staff, Team Lead (since 1997)
- **Marc Patterson**, M.E., B.S. Idaho Power P.E. Idaho Power Company, Transmission and Distribution Planning Department.

Module Descriptions:

Module 1 will focus on learning the history of NERC and WECC organizations, why they were formed, how they have changed, their importance and how they affect the utilities. Assignments require the students to research NERC/WECC information and to prepare a discussion paper on the cause and effect of these organizations.

Module 2 will focus on the understanding the NERC/WECC policies and guidelines and how it applies to operating the bulk transmission system.

Module 3 will focus on the analysis of system operating case studies, understanding the data requirement, determining if a problem exists and developing alternative short term solutions of operating the transmission system without violating of the WECC/NERCC policies.

Module 4 is an extension of Module 3, where the students will be given an operating scenario (powerflow case or set of data), determine the problem and criteria violation, and finally develop a long-term solution.

NON-MATRICULATED REGISTRATION FORM

Gonzaga University Registrar's Office

Name: _____

SS#: _____ - _____ - _____

Semester: [] Fall [] Spring [] Summer I [] Full Summer [] Summer II Year: _____

Mailing Address: _____

Home Phone: () _____

Business Phone: () _____

Previous Names: _____

Gender: [] Female [] Male

Birthdate: (M/D/Y) _____ / _____ / _____

Email Address _____

Have you completed a college degree? [] Yes [] No

If so, degree, date, and college/university: _____

Ethnic Category (optional):

- [] Asian American
- [] Hispanic
- [] Caucasian
- [] African American
- [] Pacific Islander
- [] Native American
- [] International from _____

Study Level:

- [] Undergraduate
- [] Dual Enrollment (High School Student)
- [] English Language Center
- [] Senior Citizen Audit
- [] No Credit/No Record

Have you previously or are you intending to apply to Gonzaga University? [] Yes [] No

Are you registering for courses to complete a teaching certificate or endorsement? [] Yes [] No

Given the mission of Gonzaga University and the campus spirit we try to create, we ask whether you have ever been convicted of a crime or have a case pending against you at this time.

[] Yes [] No If yes, please attach written details.

CRN #	SUBJ	COURSE #	SECT #	TITLE	CR

TOTAL CREDITS: _____

Statement of Student's Financial Responsibility:

Submission of this Registration Form obligates the student for payment of tuition and fees.

Student Signature: _____

Date: _____ / _____ / _____