

**Graduate Council Meeting Minutes
2/08/2023– 4:00-5:00 p.m.**

ZOOM LINK: <https://uidaho.zoom.us/j/81521354062?from=addon>

X	Jerry McMurtry	x	Evan Williamson (Library)	E	Grant Harley (COS) 2024
X	Chris Ludwig (EHHS) 2024	x	Pedram Rezamand (At-Large/CALS) 2023	X	John Cannon (At-Large/EHHS Boise) 2025
x	Linda Chen (CBE) 2023	X	Kelly Quinnett (CLASS) 2023	X	Eric Wolbrecht (ENGR) 2025 Ata Z. filling in through May
x	Gregory Turner-Rahman (CAA) 2025	x	Leda Kobziar for Kerri Vierling (CNR/ENVS) 2023	X	Carson Silsby (GPSA)
E	Paul Hohenlohe (UWP) 2024	X	Dan Strawn (CALS) 2023	X	Adamarie Marquez Acevedo (GPSA)
x	Sarah Wu (At Large/ENGR) 2024				

- I. Minutes from 1/18/2022 Vote count: 9/0/4. Approved.

- II. Announcements
 - a. Welcome Eric Wolbrecht and Greg Turner-Rahman to the council.
 - b. Three Minute Thesis Winners update: BSU 1st and 2nd, and UI Paul Tietz and Jeremy Van Driessche 3rd and People’s Choice
 - c. Grad Visit Day Feb 16-17, 2023, 1 spot left; if in regional area; drive/needs hotel
 - d. Accountancy and Law offering tax form filing help.
 - e. Teaching Assistant Awards-still waiting to hear from President about the backfill funds \$1.67 million and tuition increases to offer final allocations to the colleges.
 - f. Graduate Admissions with application data updates. Applications up and quicker decisions on the rise.

- III. Old Business
 - a. Discussion on putting letters of recommendation back to the department’s choice and responsibility as far a type and number required.
 - b. Graduate Student Survey results are coming soon.

- IV. New Business

Curriculum item: Power System Protection and Relaying Academic Certificate. Learning outcome changed and added real courses, and not electives/Special topics 504.
 Questions about whether it is a distance certificate. 544/529 not added to the possible options. EO and campus available.
 Sent back to change the grid and address 100% distance item. Send to Brian Johnson to adjust curriculum. The certificate meets the minimum for 0-10-B certificates.

Addendum information via email concerning the Power System Certificate:

1) *The table under Curriculum was provided by the online system and Dr. Johnson could not edit it. It is the current snapshot of the certificate before the proposed changes take effect. Thus, Stephanie made the changes in CIM and attached copy to March agenda.*

2) *The certificate can be completed 100% on-campus or 100% off-campus. The “can” should be interpreted as having the option to complete the certificate 100% remotely, but it is not a “must”.*

Motion to adjourn. Adjourned at 4:45 PM
 Future Meetings: March 8, April 12, May 10.

353: POWER SYSTEM PROTECTION AND RELAYING ACADEMIC CERTIFICATE

In Workflow

1. Registrar's Office (none)
2. 129 Chair (joel@uidaho.edu)
3. 08 Curriculum Committee Chair (colberg@uidaho.edu)
4. 08 Dean (long@uidaho.edu)
5. Provost's Office (kudas@uidaho.edu; mstout@uidaho.edu; jvalkovic@uidaho.edu; gwen@uidaho.edu)
6. Assessment (sara@uidaho.edu)
7. Curriculum Review (V00814390@uidaho.edu)
8. Graduate Council Chair (slthomas@uidaho.edu)
9. Registrar's Office (none)
10. Ready for UCC (disable)
11. UCC (none)
12. Post-UCC Registrar (none)
13. Faculty Senate Chair (mstout@uidaho.edu; jvalkovic@uidaho.edu; cari@uidaho.edu)
14. State Approval (mstout@uidaho.edu; jvalkovic@uidaho.edu; lindalundgren@uidaho.edu)
15. NWCCU (sara@uidaho.edu; mstout@uidaho.edu)
16. Theodore Unzicker (tunzicker@uidaho.edu)

Approval Path

1. Tue, 20 Sep 2022 01:08:13 GMT
Joseph Law (joel): Rollback to Initiator
2. Tue, 20 Sep 2022 20:37:51 GMT
Theodore Unzicker (tunzicker): Approved for Registrar's Office
3. Wed, 21 Sep 2022 16:21:08 GMT
Joseph Law (joel): Approved for 129 Chair
4. Fri, 14 Oct 2022 16:43:34 GMT
Patricia Colberg (colberg): Approved for 08 Curriculum Committee Chair
5. Fri, 14 Oct 2022 16:46:34 GMT
Suzanna Long (long): Approved for 08 Dean
6. Fri, 18 Nov 2022 23:21:23 GMT
Ken Udas (kudas): Approved for Provost's Office
7. Wed, 30 Nov 2022 17:32:32 GMT
Sara Mahuron (sara): Approved for Assessment
8. Wed, 01 Feb 2023 00:01:07 GMT
Dwayne Hubbard (dhubbard): Approved for Curriculum Review

History

1. Jul 6, 2021 by Amy Kingston (amykingston)

Date Submitted: Tue, 20 Sep 2022 17:58:45 GMT

Viewing: 353 : Power System Protection and Relaying Academic Certificate

Last approved: Tue, 06 Jul 2021 19:05:24 GMT

Last edit: Tue, 20 Sep 2022 20:47:37 GMT

Changes proposed by: Brian Johnson

Faculty Contact

Faculty Name	Faculty Email
Brian Johnson	bjohnson@uidaho.edu

Change Type (Choose all that apply)

Change curriculum requirements
Add/Edit Learning Outcomes

Description of Change

Make the following changes to the list of electives for the certificate:

1. Remove ECE 504: special topics
2. Add ECE 544: Supervisory Control and Critical Infrastructure Systems
3. Add ECE 529: Utility Applications of Power Electronics

Adding learning outcomes

Will this request have a fiscal impact of \$250K or greater?

No

Academic Level

Graduate

College

Engineering

Department/Unit:

Electrical & Computer Engr

Effective Catalog Year

2023-2024

Program Title

Power System Protection and Relaying Academic Certificate

Program Credits

12

CIP Code

14.1001 - Electrical and Electronics Engineering

Curriculum:

All required coursework must be completed with a grade of 'B' or better (O-10-b (<https://catalog.uidaho.edu/general-requirements-academic-procedures/o-miscellaneous/>)).

Code	Title	Hours
ECE 523	Symmetrical Components	3
ECE 525	Power System Protection and Relaying	3
ECE 526	Protection of Power Systems II	3
Select 3 credits from the following Electives:		3
ECE 422	Power Systems Analysis	
ECE 452	Communication Systems	
ECE 476	Digital Filtering	
ECE 504	Special Topics	
ECE 524	Transients in Power Systems	

Total Hours

12

Courses to total 12 credits for this certificate**Distance Education Availability**

To comply with the requirements of the Idaho State Board of Education (SBOE) and the Northwest Commission on Colleges and Universities (NWCCU) the University of Idaho must declare whether 50% or more of the curricular requirements of a program which may be completed via distance education.

Can 50% or more of the curricular requirements of this program be completed via distance education?

Yes

If Yes, can 100% of the curricular requirements of this program be completed via distance education?

Yes

Note: Existing programs transitioning from less than 50% of its curricular requirements to 50% or more of its requirements being available via distance education is considered a Group C change and must complete the program proposal formwork before these changes will be processed.

Geographical Area Availability

In which of the following geographical areas can this program be completed in person?

Coeur d'Alene
Idaho Falls
Moscow

Student Learning Outcomes

Have learning outcomes changed?

Yes

Learning Objectives

1. Develop solid understanding of the theory of symmetrical components as applied to power systems fault analysis
2. Develop a deeper understanding of power generation and system apparatus models for fault analysis.
3. Learn advanced fault analysis techniques.
4. Learn power systems protection and relaying fundamentals.
5. Learn to apply advanced methods for protection of transmission lines, distribution systems, buses, transformers, generators and other apparatus.
6. Gain understanding of protection challenges and solutions for inverter based resources such as photovoltaic, wind and battery storage systems.
7. Learn how telecommunication systems are applied to improve protection system performance.

Rationale for the proposed change. Include an explanation of how the department will manage the added workload, if any.

1. Changes in elective courses:
 - a. Listing ECE 504 as an option allows courses with no relationship to power systems protection and relaying. Removing the special topics course as an elective improves focus.
 - b. The ECE 544 course is very relevant for setting up modern protective relaying schemes in substations with ethernet communication networks becoming commonplace in practice
 - c. The ECE 529 course is a valuable elective as wind generation, solar generation and battery energy storage become common in power systems. All are interfaced through power converters. Understanding the response of power converters to faulted conditions is a very important topic in modern protection schemes.
2. Change in learning objectives:
 - a. the original entry did not list learning objectives

Reviewer Comments

Joseph Law (joel) (Tue, 20 Sep 2022 01:08:13 GMT): Rollback: Add outcomes

Sara Mahuron (sara) (Tue, 20 Sep 2022 20:47:37 GMT): added outcomes to Anthology

Key: 353

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Other

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