

# **Administrative Master Syllabus**

## **Course Information**

Course Title	Cooperative Education - Nuclear/Nuclear Power Technology/Technician
Course Prefix, Num. and Title	NUCP 1480 Cooperative Education - Nuclear/Nuclear Power Technology/Technician
Division	Vocational Science
Department	Nuclear Power Technology
Course Type	WECM Course
Course Catalog Description	Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component.
Pre-Requisites	Requires assignment by the Program Director
Co-Requisites	None

## **Semester Credit Hours**

Total Semester Credit Hours (SCH): Lecture Hours:	4:1:27
Lab/Other Hours	
Equated Pay Hours	4.4
Lab/Other Hours Breakdown: Lab Hours	Enter Lab Hours Here.
Lab/Other Hours Breakdown: Clinical Hours	Enter Clinical Hours Here.
Lab/Other Hours Breakdown: Practicum Hours	Enter Practicum Hours Here.
Other Hours Breakdown	27 Co-op

## **Approval Signatures**

Title	Signature	Date
Department Head:		
Division Chair:		
VPI:		



## **Additional Course Information**

**Topical Outline:** Each offering of this course must include the following topics (be sure to include information regarding lab, practicum, and clinical or other non-lecture instruction).

#### Lecture:

**TOPICAL OUTLINE** 

- 2. Company Expectations including orientations, training, and plant entry procedures.
- 3. Job function (dependent upon student's curriculum specialization).
- 7. Power Plant process and physical safety, and observance of in-plant safety culture
- 8. Job shadowing and training.
- 9. Human performance.
- 10. Quality as related to plant /workers.
- 7. Weekly log of lessons learned (required for WCJC's required reporting and follow-up). DEDICATED

INSTRUCTIONAL TIME: 20 contact hours /week.

Lab Work:

None: Student's Practicum will be done in-plant.

#### Learning Outcomes – Upon successful completion of this course, students will:

#### Lecture:

- 4. Apply the theory, concepts, and skills involving specialized materials, tools, equipment, procedures, regulations, laws, and interactions within and among political, economic, environmental, social, and legal systems associated with the occupation and the business/industry and will demonstrate legal and ethical behavior, safety practices, interpersonal and teamwork skills, and appropriate written and verbal communication skills using the terminology of the occupation and the business/industry.
- 5. Describe the operation of a power generation facility and the role of the curriculum specialization.
- 6. Describe the job function as it relates to the classroom lecture material.
- 7. Apply the principles of mathematics and physics to problems encountered in their area of specialization.
- 8. Apply lessons-learned of plant processes and physical safety, and observance of in-plant safety culture.
- 9. Apply the principles of quality within the industrial environment.
- 7. Perform record keeping through the weekly log of lessons learned.



Methods of Assessment:	
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Classroom presentation / report summary of weekly log of lessons learned	. (Mid-term presentation only, and final
presentation as part of the end-of-semester final project). Assignments,	

exams and quizzes (both oral and written).

Plant Supervisor's evaluation reports.

## Required text(s), optional text(s) and/or materials to be supplied by the student:

Selected plant material as part of co-op requirements

#### **Suggested Course Maximum:**

20 / Dependent upon sponsoring Plant availability.

# List any specific or physical requirements beyond a typical classroom required to teach the course.

Nuclear Power Plant Co-op.

**Course Requirements/Grading System:** Describe any course specific requirements such as research papers or reading assignments and the generalized grading format for the course.

Instructor's Grading System
Supervisor's Evaluation (includes the following cross disciplinary skills:
notebook, attendance, punctuality, team work, cooperation, housekeeping
participation75%
Coordinator's Evaluation (includes mid-term lessons learned presentation,
assignments, and final presentation as part of the end-of-semester final
project25%
90 to 100: A
80 to 89: B
70 to 79: C
60 to 69: D
0 to 59: F
Note: For the additional NLICE certificate, the student must complete the s

Note: For the additional NUCP certificate, the student must complete the course with a minimum of 80%.

#### **Curriculum Checklist:**

□ <b>Administrative General Education Course</b> (from ACGM, but not in WCJC Core) – No additional documents needed.
☐ Administrative WCJC Core Course – Attach the Core Curriculum Review Forms
☐ Critical Thinking
☐ Communication



☐ Empirical & Quantitative Skills	
□Teamwork	
☐ Social Responsibility	
☐ Personal Responsibility	
<b>■ WECM Course</b> – If needed, revise the Program SCANS Matrix and Competencies Checkli	ist