## THREE RIVERS COMMUNITY-TECHNICAL COLLEGE COURSE OUTLINE

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Course Number/Title: NUC 118 Nuclear Chemistry

Lecture 2 hrs Laboratory 0 hrs Credit 1 hrs Contact 1 hrs

Course Description: This course is an introduction to basic concepts associated with nuclear reactor chemistry. Topics covered include the detrimental effects of corrosion, acids/bases and ph, oxidation-reduction reactions, corrosion mechanisms, corrosion control, radio chemistry, and plant analyses.

Method: Lecture

Text: Handouts

Prerequisites: CHE K121, MAT K186, NUC K100 Co-Requisites:

NUC K117

HOURS
3
3
3
3
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3
15

Date: October 9, 2002

Prepared By: Nuclear Staff

Program Coordinator: <u>James Sherrard</u>

Department Chairperson: Anthony Benoit

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## Measurable Objectives

The student will gain a good background in general inorganic chemical concepts. The student will become familiar with corrosion problems in power plants with an emphasis on how these problems can be minimized or prevented. Additionally, the development of plant analysis and their application to plant operational performance will be perfected as a diagnostic tool.