

**Class Time and Location:** Mondays and Wednesdays - 7:00 to 8:15 P.M. @ the HOVENSA Training School

**Course Description:** *Introduction to Process Technology* is the first course in the Applied Science in Process Technology Program being offered by the University of the Virgin Islands and sponsored by HOVENSA. This two-year program has been created to train students for careers as Process Technicians in industry. This course serves as the foundation for all of the other courses in the program.

*Introduction to Process Technology* provides an introduction to industrial plant operations, particularly chemical and refinery plant operations

### **Course Objective**

At the end of this course, students are expected to know the following:

- A general history of the chemical process industry
- A process technician's roles, duties, responsibilities and expectations
- Applied chemistry and Physics
- Plant process and utility systems;
- An overview of a typical process plant;
- Identification of the various types of process equipment and some basic fundamentals on their operations
- The purpose of various types of equipment
- How to use and understand Block Flow Diagrams (BFDs), Process Flow Diagrams (PFDs) and Piping and Instrument Diagrams (P & IDs)

Students are also expected to develop an awareness of the safety, health, and environmental issues affecting the Process Industry.

### **Required Materials:**

- Introduction to Process Technology 1<sup>st</sup> Edition (PTEC) - Publisher - Pearson Publishing; ISBN-0-536-17501-2
- A calculator
- A three-ring binder for handouts and notes
- Access to a Personal Computer and the Internet

### **Grading:**

There will be a minimum of **four** in-class tests that will **each** count as fifteen (15) percent of the final grade. Quizzes/Home assignments/Class Participation will count as twenty (20) percent of the final grade. The final exam will be a comprehensive exam that will count as twenty (20) percent of the overall grade. The dates of the tests have already been tentatively scheduled. If you miss a test, you must present a doctor's certificate in order to receive a makeup. No other make-ups will be given.

An unexcused absence during a test will result in a grade of zero. Missing the final exam will result in a grade of zero.

**Summary of how your Final Grade will be determined:**

Four (4) in-class Tests	-60 Percent (%)
Quizzes/Homework Assignments/Class Participation	- 20 Percent (%)
Final Exam	<u>- 20 Percent (%)</u>
	100 %

**Grading Scheme showing assignment of letter grades:**

95- 100	A	90 -94	A-		
87 - 89	B+	83 - 86	B	80 - 82	B-
77 - 79	C+	73 - 76	C	70 - 72	C-
65 - 69	D+	60 - 64	D	0 - 59	F

**Course Requirements:**

Classes are scheduled for Mondays and Wednesdays from 7:00 to 8:15 P.M. All students are required to attend class **regularly and punctually and complete homework assignments on time**. If a student misses a lecture, then he or she is responsible for any material covered and/or homework assigned in his /her absence. Students are also expected to participate fully in class discussions and problem solving sessions. Students are expected to work independently on homework assignments. **Cell Phones, Pagers and other electronic devices** must be turned off during class.