



**L, PHILOSOPHY/GOALS:** To provide apprentices with a preparatory overview of structural blueprints thereby enabling them to work from typical site, erection **and** shop drawings while under the supervision of a skilled trades person.

**II. STUDENT PERFORMANCE OBJECTIVES (OUTCOMES):**

**Upon successful completion of this course the student will:**

- 1) Recognise the differences) between structural 'detailing\*' and mechanical 'drafting'<sup>1</sup>.
- 2) Identify structural shapes, read dimensions and recognise typical building components appropriate to the needs of the trade.
- 3) Become familiar with the use of welding symbols, abbreviations, common dimensioning practices as well as the general types of information provided on the various drawings.

**DX TOPICS TO BE COVERED:**

**Approximate Time**

1. Course Introduction and Orientation
2. Standards for Orthographic Projection, Sectional, Auxiliary / Detail Drawings.
3. Basic Structural Shapes, their Dimensions and Terminology.  
——Theory Test # 1 **and** Review——
4. Use and Application of Common Welding Symbols  
——Theory Test #2 and Review——~
5. Introduction to Site / Erection Drawings  
——Theory Test # 3 and Review ——~

**TOTAL HOURS            24**

**IV. REQUIRED RESOURCTS/TEXTS/MATERIALS:**

- 12" Clear Plastic Desk **Rule**
- 2 - Pencils ('H' and 'HB' Lead)**
- 1 - Eraser**
- 1 - Binder c/w standard lined paper and quad-ruled paper

**DV. GRADING & EVALUATION**

The evaluation for each Learning Outcome will be determined by means of *Lab Assignments, Theory Tests* and *Random Quiz(s)*.

While all tests and assignments are designed to be completed with the specified time limit (or less ), students **MUST** report to the lab/ classroom fully prepared. Your professor will supply only the assignment or test instructions.

The Final Mark for IRN-602 will be calculated as follows:

<b>Final Mark</b>	<b>General Grading Scheme</b>
<b>Theory Tests</b>	<b>A 86 - 100%</b>
<b>Random Quizzes</b>	<b>B 76 - 85%</b>
<b>Assignments</b>	<b>C 60 - 75%</b>
	<b>D 50 - 59%</b>
	<b>F 0 - 49%</b>

**VL SPECIAL NOTES:**

**1. Special Needs**

If you are a student with special needs (eg. physical limitations, visual impairments, hearing impairments, learning disabilities), you are encouraged to discuss required accommodations with the instructor and/or contact the Special Needs Office, Room E1204, Ext. 493, 717,491 so that support services can be arranged for you.

**2. Retention of Course Outlines**

It is the responsibility of the student to retain all course outlines for possible future use in acquiring advanced standing at other post-secondary institutions.

- 3. Student evaluations concerning the 'Final Mark' are further affected by the conditions set forth in the printed handout, '*Welding Department Guidelines*'. Be sure that you receive a copy of these guidelines.**

4. Course materials that are discussed and / or explained during any and all lab or shop demonstrations are subject to evaluation. Students are therefore responsible for the content of all lab / shop demonstrations.
5. Your Professor reserves the right to modify the course as he/she deems necessary to meet the needs of students.

Any person caught cheating or substituting another person's work in place of their own for the purpose of grading or evaluation will automatically fail the said assignment or test. College policy\* also dictates that such persons may be subject to immediate dismissal.

## **VII. PRIOR LEARNING ASSESSMENT**

Students who wish to apply for advanced credit in the course should consult the instructor. Credit for prior learning will be given upon successful completion of the following:

1. The successful completion of a structural blueprint reading course having Learning Outcomes and Elements of Performance that are at least 80% compatible with this course outline...

AND

2. The successful challenge of all theory tests identified by this course outline.

<OR>

3. The completion of a prior learning assessment via the Prior Learning Assessment Office...

AND

4. The successful challenge of all theory tests identified by this course outline.