



**Construction and Fabrication Department**

**COURSE OUTLINE – FALL 2016**

**ITW12: GMAW, FCAW, SAW Theory – (24hrs) 2 Hours for 12 Weeks**

**1.5 (2-0-0)**

**INSTRUCTOR:** Mirosław Bator

**OFFICE:** M122A

**OFFICE HOURS:**

**PHONE:** 780 835 6639

**E-MAIL:** mbator@gprc.ab.ca

**CALENDAR DESCRIPTION:** This course covers the gas metal arc welding (GMAW), flux core arc welding (FCAW), submerged arc welding (SAW) theory components of Alberta Apprenticeship Welder Training, 1<sup>st</sup> Period. Topics include: power source, wire drive systems, shielding gas, regulator flow meters, wire classification and maintenance.

**PREREQUISITE(S)/COREQUISITE:** Program admission requirements.

**REQUIRED TEXT/RESOURCE MATERIALS:** AIT individual learning modules.

**DELIVERY MODE(S):** Lecture

**COURSE OBJECTIVES:** Demonstrate an understanding of Welding Technology and Properties of Metal.

**LEARNING OUTCOMES:** Use Welding Technology and Properties of Metal.

**TRANSFERABILITY:** N/A

**EVALUATIONS:** Progression Tests 30%, Final Exam 70%

**GRADING CRITERIA:** A student must pass each course individually in order to receive a Certificate of Achievement in the Welding Certificate Program.

Absence for tests or assignments missed will result in a score of zero.

No supplemental tests and/or examinations available.

| Alpha Grade | 4-point Equivalent | Percentage Guidelines |  | Alpha Grade | 4-point Equivalent | Percentage Guidelines |
|-------------|--------------------|-----------------------|--|-------------|--------------------|-----------------------|
| A+          | 4.0                | 90-100                |  | C+          | 2.3                | 67-69                 |
| A           | 4.0                | 85-89                 |  | C           | 2.0                | 63-66                 |
| A-          | 3.7                | 80-84                 |  | C-          | 1.7                | 60-62                 |

|    |     |       |  |    |     |       |
|----|-----|-------|--|----|-----|-------|
| B+ | 3.3 | 77-79 |  | D+ | 1.3 | 55-59 |
| B  | 3.0 | 73-76 |  | D  | 1.0 | 50-54 |
| B- | 2.7 | 70-72 |  | F  | 0.0 | 00-49 |

## **COURSE SCHEDULE/TENTATIVE TIMELINE: 26<sup>th</sup> September to 16<sup>th</sup> December 2016.**

### **STUDENT RESPONSIBILITIES:**

Please refer to the Student Rights and Responsibilities policy in the Grande Prairie Regional College Calendar

#### **PROFESSIONAL CONDUCT**

This is an adult education environment. It is expected that students enrolled at Grande Prairie Regional College will become responsible citizens of the College. As such, each student will display a positive work ethic, take pride in and assist in the maintenance and preservation of Institute property. Students will assume responsibility for his/her education by researching academic requirements and policies, demonstrating courtesy and respect toward others. They will respect instructor expectations concerning attendance, classroom and shop rules, safety, assignments, deadlines and appointments.

For your safety, the safety of others there will be a zero tolerance for anybody showing up under the influence of alcohol or drugs that may cause physical impairment or disruptive behaviour.

#### **ATTENDANCE**

Regular attendance and punctuality in all courses is mandatory. Students who accumulate 27 hrs of absence within the program may result in being withdrawn from the program. Students shall make every reasonable effort to inform their instructors prior to any absence. Late entry to class will be considered 1hr absent.

### **STATEMENT ON PLAGIARISM AND CHEATING:**

Cheating and plagiarism will not be tolerated and there will be penalties. For a more precise definition of plagiarism and its consequences, refer to the Student Conduct section of the College Admission Guide at <http://www.gprc.ab.ca/programs/calendar/> or the College Policy on Student Misconduct: Plagiarism and Cheating at <http://www.gprc.ab.ca/about/administration/policies/>

**\*\*Note:** all Academic and Administrative policies are available on the same page.

### **Additional Information (Optional):**

Instructors may add whatever they want here.