Itasca Community College

**Course:** ENGT 1320 Technical II

Spring 2018 January 8, 2018 thru May 10, 2018

**Instructor:** Nick Wooner

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**Course Time:**

Wednesday 3:00 PM – 4:50 PM

Building - Daily Room – 110 Shop: ICC Concept Lab

**Course Material:**

Book N/A

Will discuss other materials if or as needed.

**Course Description**:

This course continues to explore the governing components and equipment of the process operations industry such as **Boilers**, AC/DC motors and generators. Students will also be able identify and explain the operation of basic instruments used in a variety of industrial processes such as temperature, pressure, and flow. It is the second in a series of courses on technical knowledge and focuses on large industrial equipment.

**Course Outcomes:**

Students will be able to identify and understand the components and operation of a boiler/Rankine cycle

* + Boiler Operation Principles
  + Feed Water Systems
  + Draft and Combustion
  + Boiler Operation Procedures Boiler Operation Safety
  + Turbine Condenser
  + Hot Water & Steam Heating System
  + Superheating / Sub-Cooling

**Grading:**

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| --- | --- | --- | --- |
| **Grading** | | | |
|  | Points | % Grade | Grading Scale |
| Homework | 100 | 20% | A = 90 -100% |
| Project Rankine | 150 | 30% | B = 80 - 89% |
| Quizzes | 50 | 10% | C = 70 - 79% |
| Tests | 100 | 20% | D = 60 - 69% |
| Attendance | 100 | 20% | F = Below 60 % |
| TOTALS | 500 | 100% |  |

**EXTRA HELP AVAILABLE:** If you experience difficulties in this class, please notify myself as soon as possible. If needed, we can work through the Academic Support Center to provide additional help (at no cost to the student).

**DISABILITY INFORMATION:** Individuals who have any disability, either permanent or temporary, which might affect their ability to perform in this class are encouraged to inform me at the start of the course. Adaptation of methods, materials, or testing may be made as required to provide for equitable participation.

**STATEMENT OF ACADEMIC INTEGRITY:** Unless otherwise indicated by the instructor, students should not submit, as part of the course requirements, any work that is not his or her own in its entirety. This includes any printed material or information in a digital (computer) form. This activity is academic dishonesty. The consequences are a zero for the assignment or exam and your course grade lowered by one letter grade for the first offense and will be referred to the student conduct officer. Additional offenses will result in an “F” for the student in the class and will again be referred to the student conduct officer.