

WESTERN TECHNICAL - COMMERCIAL SCHOOL COURSE OUTLINE



COURSE TITLE: Woodworking

CODE: TCJ201

SUBJECT AREA: Tech

TEXTBOOK: Hand and Machine Woodworking

TEACHER NAME: Mr. Franzen

DATE: Sept 2015

PREREQUISITE: None (Open)

**COURSE COST
MATERIAL FEE:** None

COURSE DESCRIPTION:

This course introduces students to building materials and processes through opportunities to design and build various construction projects.

Students will learn to create and read working drawings; become familiar with common construction materials, components, and processes; and perform a variety of fabrication, assembly, and finishing operations. They will use a variety of hand and power tools and apply knowledge of imperial and metric systems of measurement, as appropriate. Students will develop an awareness of environmental and societal issues related to construction technology, and will explore secondary and postsecondary pathways leading to careers in the industry.

COURSE DESTINATION: CONSTRUCTION, TECHNOLOGY DESIGN, TRANSPORTATION, MANUFACTURING, ROBOTICS

COURSE UNITS:

Unit	Description	Length	Evaluation Strategies
1	Introduction to woodworking, safety, hand tools, and wood joints - joint frame project	21 days	Procedures, routines, quiz, practical work, written assignments
2	Power tools & safety, wood types and stock preparation - sign project	22 days	Test, practical work, written assignments
3	Assembly techniques, more power tools & Safety, and fasteners & hardware - start end table project	20 days	Quiz, practical work, written assignments
4	Finishing, project design, and woodworking industry - finish end table project	23 days	Test, practical work, written assignments

OVERALL EXPECTATIONS: By the end of the course students will...

- describe the components and systems of buildings, the properties of various building materials, and the processes in which those materials are used;
- demonstrate an understanding of the safe and correct use of construction tools, equipment, and techniques;
- use correct terminology to describe building components and construction materials, tools, equipment, and processes.

- design construction projects, individually or in small groups, applying a design process to plan and develop the projects and other problem-solving processes to address various related problems and challenges;
- use drawings to represent design ideas and solutions to technological challenges, and interpret drawings accurately when working on construction projects;
- apply the mathematical skills required in the planning and building of construction projects.

- use tools, equipment, and techniques correctly and safely when preparing materials for a project;
- use fabrication and assembly techniques safely, accurately, and in the correct sequence;
- prepare surfaces and apply finishing products, trim, and hardware correctly and safely.

- demonstrate an understanding of ways in which the construction industry affects the environment;
- describe ways in which the construction industry affects society.

CLASSROOM EXPECTATIONS

- Come to class on time and be prepared and willing to actively participate in every lesson.
- Treat others with respect and courtesy.
- Ask the teacher for extra help if needed.
- Take the initiative, be a team player, co-operative with peers, complete homework, and make your best effort.
- A focus on student project-driven teams, learning and innovating to solve challenging problems and come up with working solutions, while gaining new knowledge, skills, experiences, and understanding of this field area.
- Bring a 3-ring binder with paper, pen, pencil, ruler, calculator, and safety glasses
- Hand all work in, to Instructor with last initial, first name, date, and a topic/title whether in paper or electronic format.

ATTENDANCE MISSED TESTS AND EVALUATIONS

- Bring a note from parents the day after an absence to explain the absence.
- Be aware that a mark of zero will be assigned to students who miss presentations, tests or assignments without a valid explanation. It is the student's responsibility to make arrangements, ahead of time, for any evaluations that are missed. If a student misses an evaluation for an unforeseen reason such as illness or family emergency, the student must bring a note signed by a parent or guardian and be prepared to write/make-up the evaluation immediately upon return to school.

ACADEMIC INTEGRITY

- Plagiarism and/or copying will result in a mark of **zero** for everyone involved. Further action may be taken including suspension from school. Teachers will clearly define and discuss consequences of plagiarism with students at the beginning of each semester.

LATE ASSIGNMENTS

- All assignments must be handed in to the teacher on the due date. Late marks will be deducted from assignments handed in past the due date but prior to the cut off date.
- A mark of zero will be given to the student if the assignment is handed in after the cut-off date.

MISSED EXAMINATIONS

- Students are required to write all scheduled examinations. A student who misses any examination due to illness must present a medical note, stating that the doctor was aware that a medical reason prevented the student from writing the exam.

TEACHING/ASSESSMENT/EVALUATION STRATEGIES

Learning Activities: Demonstrations, presentations, illustrations, tutorials, hands-on activities, computers, practical projects

Culminating Activities: Final practical project

EVALUATION OF STUDENT ACHIEVEMENT

Student achievement is measured relative to curriculum expectations across four weighted Achievement Categories (Knowledge/Understanding, Thinking/Inquiry, Communication, and Application).

Term Work: 70% (Knowledge/Understanding, Thinking/Inquiry, Communication, and Application)

Culminating Activities: 30% Final practical project

Learning Skills: including: Responsibility, Organization, Independent Work, Collaboration, Initiative, and Self-Regulation are evaluated on each Report Card as: **E** (excellent); **G** (good); **S** (satisfactory); or **N** (needs improvement).

WESTERN TECHNICAL-COMMERCIAL SCHOOL
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Best way to contact is through my E-mail: Michael.Franzen@tdsb.on.ca

Teacher's Signature

Student's Signature

Parent's Signature