



Dr. E.P.Scarlett High School

Construction Technology 10

Mr. Housley,

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D2L pages:

Period One: <https://d2l.cbe.ab.ca/d2l/home/1022807>

Period Three: <https://d2l.cbe.ab.ca/d2l/home/1022806>

Course Outline

Credits: There are 5 credits for Construction 10, attained through 5 one credit courses. Marks for each module are not averaged out, and each student must pass each course to earn all 5 credits available. It is expected that all students wishing to take Construction 20, must pass at least four of the five modules which must include “Planning and Management” and “Construction Tools and Materials”

Course Fee:

The course fee is \$50—this cost is used for:

- Maintenance of tools and machinery
- All consumables used by student (eg. fasters, glue, wood, sandpaper)
- Replacing tools as needed
- Blade sharpening and/or replacement
- Maintenance of Dust Collection system

Extra fees may need to be collected if the student requests materials that is a special ordered and/or exceeds basic material costs. The extra fee will be determined by current market cost of Materials. Extra fees be paid before special materials are ordered.

Course Prerequisite: No prior experience is required, however, the first module, Con 1010 is a prerequisite for all the modules that follow.

Course Outcomes: Please note that outcomes noted are central outcomes. Subsets of these outcomes are available here:

<https://www.learnalberta.ca/ProgramOfStudy.aspx?lang=en&ProgramId=524475#819003>

Module Descriptions:

Con 1010 Construction Tools and Materials (This is a prerequisite for Construction 20 and 30.)

Identify and use chisels, planes, mallets, drills and sanders to create a project. Proper measurement and marking skills with hand tools and finishing techniques will apply. Chapters 19, 20, 21, 22, 59 and measurement. Course Work 30%, Projects and skill rating 70%

Con 1120 Project Management - Note: This is a prerequisite for Construction 20 and 30.

Involves sketching and drawing objects supplied. Complete orthographic and isometric drawings to scale of your project. Complete calculations for lineal, area and volume of lumber to cost your project. Prepare and planning of assembly procedure to complete your project. Chapters 16, 25, 31, 26, 28, and 33. Tests 25, 31, 26, 28, and 33. Project: Students' own project at students cost. Course Work 50%, Project and skill rating, 50%

Con 1130 Solid Stock Construction

Interpret drawings to create a project from solid stock. Complete theory and safety tests and use Jointer, Thickness Planer, Table Saw, Band Saw, Router, and Miter/Chop Saws. Proper gluing and clamping procedures for built up projects and project assembly. Preparing and applying a finish. Chapters 25, 31, 26, 28, 33, 39. Tests 25, 31, 26, 28, and 33. Project: Stool or bed side table. Course Work 30%, Project and skill rating, 70%

Con 1160 Manufactured Materials

Use manufactured materials such as plywood, MDF, Masonite etc. to create dados, miters, and rabbets to create a project. This can be combined with another project. This will use all major power tools. Chapters 25, 31, 26, 28, 33, 39, and 8. Tests 25, 31, 26, 28, and 33. Project: Stool or bedside table. Course Work 30%, Project and skill rating, 70%

Con 1910 Project A

Students will make a project proposal which includes drawing, cost sheets, and a plan of procedure. Course work includes chapters 60, and 61. Course Work 35 %, Projects and skill rating 65 %

Outcomes Based Evaluation

- Outcome assessment for all modules above will be done exclusively through projects assigned for each module. Student work will be assessed on a day to day basis (with formative feedback), and at the end of modules to determine student understanding of outcomes based on their final work product (summative assessment).

Course Expectations

- Students are expected to attend regularly, and show up for classes on time. It is critical for student success that students are in class in order to maximize their learning and potential
- Students are expected to advocate for their learning. If students are struggling with material, they should ask any and all questions they need for clarification. Questions are an important part of the learning process, and I am here to help students with anything they need to succeed. Students who are away should look to the D2L shell for remote situations, but students should always check in following absences to check for any important information that may have been missed through absence.
- Students should hand in their best work, on time. In situations where deadlines may not be met, students should work with me to arrange an extension/ alternate arrangement **before** the work is due.
- Students are expected to treat their fellow students and classroom equipment/ technology with respect. This is a non- negotiable as the classroom environment is for everyone

- Cell phone use should be kept to a minimum. I would rather work with students to help them understand appropriate usage and how to be productive without being on cell phones in class. If students can not regulate their cell phone usage, and it is affecting their work, then alternate arrangements will need to be made to ensure student success

Learning Resources

- Program of Studies:

<https://www.learnalberta.ca/ProgramOfStudy.aspx?lang=en&ProgramId=524475#819003>

- D2L Shell (including tutorial videos and assignments)

- **Cabinetmaking and Millwork** text and workbook.

Videos

- Safety in the Workshop
- Handheld Power Tools
- Jointers and Thicknesses
- How to Use the Band saw
- Power saws
- Table Saw Safety
- Wood Working Design
- Finishing
- Things You Need to Know (general safety)

Health & Safety

The course is designed to complete hand tool theory and a hand tool project first. During that time we will complete all power tool theory, demonstrations, and power tools tests. Before working on any machines, all power tool theory must be complete and an 80% obtained on all safety tests and booklets.

Emphasis is not solely on the finished product, but also on effort, attitude, and safety.

Modules may include a mark for the demonstration of basic competencies called skill rating. Within the shop, Safety is first!

Students should be aware of their surroundings and abide by the rules of the shop. There is zero tolerance for fooling around in the shop. While in the shop, students must listen carefully to demonstrations and instructions and follow those instructions diligently. Attitude is a big part of safe operations in the shop.

If the student is unsure ask--Safety demonstrations and reviews are available at any time from the supervising teacher.

Appendix I: Academic Integrity Policy

At Dr. EP Scarlett High School, we (staff and administration) are committed to providing assessments (whether assignments, quizzes, formal tests, and/or final exams), which assess a student's achievement of curricular outcomes.

Staff Responsibility

Staff will

- clearly communicate the expectations for academic honesty and the consequences (see below) of not being academically honest
- provide instruction on the proper means of citing other's work, to minimize unintended plagiarism
- take care in establishing a testing environment
- report to school administration and make note of incident(s) of academic dishonesty on the student's file
- Progressive Student Discipline will be adopted so that teachers, parent(s)/guardian(s), and administrators can help students take responsibility for their learning to achieve their academic goals

Student Responsibility

Students are expected to behave according to the CBE Student Code of Conduct. Students are expected to be academically honest in pursuit of their studies, whether through learning with their peers, completing class work, or in preparing for, and writing examinations. This includes avoiding plagiarism and cheating.

To be academically honest, a student must:

- refrain from copying another student's work
- use only materials which are permitted (as clearly stated by the teacher)
- refrain from communication during the testing session
- follow all communicated directions and expectations for papers and presentations, a student must:
 - create and submit for marks original work that has been completed through their own efforts, or in the case of a group project, through their group's effort(s)
 - credit the creative and intellectual efforts of others

Appendix II: Course Progression and Recommendations

Student Support

Students unable to completing course work on time can be asked, or volunteer to join me at lunch to complete assigned work.

NOTE: A mark of 80% is required on all safety units and must be achieved before you are allowed to work on any equipment.