

WESTERN TECHNICAL - COMMERCIAL SCHOOL COURSE OUTLINE



COURSE TITLE: Green Industries

CODE: THJ3E

SUBJECT AREA: Technology Education

RESOURCES: www.mfranzen.ca

TEACHER NAME: Mr. Franzen & Mr. Bradley

DATE: Feb. 2014

PREREQUISITE: THJ2O

**COURSE COST
MATERIAL FEE:** None

COURSE DESCRIPTION:

This course enables students to develop knowledge and skills related to agriculture, floristry, forestry, horticulture, and landscaping. Students will learn to identify a broad range of plant and animal species; examine factors that affect the growth of plants and animals and the quality of products derived from them; and develop process, design, and maintenance skills required in the green industries. Students will also learn about safe and healthy working practices, develop an awareness of environmental and societal issues related to green industry activities, and learn about apprenticeships and other postsecondary education and training opportunities, as well as employment opportunities that may be pursued directly after graduation.

COURSE DESTINATION: WORKPLACE WITH RELATED AREAS SUCH AS CONSTRUCTION, LANDSCAPING, AND FARMING

COURSE UNITS:

Unit	Description	Length	Evaluation Strategies
1	Introduction, industry safety poster	3 Weeks	Online activities, research, assignments, quiz, practical
2	Sector explanation, related career research, and presentation	2 Weeks	Research, assignments, online presentations, quiz
3	Plant identification, classification, environment, design, and build a planter for the home indoor/outdoor use	3 Weeks	Research, assignments, observation of hands-on practical activities, quiz
4	Animal identification, classification, environment, design, and build a bird feeder or house for outdoor use	3 Weeks	Research, assignments, observation of hands-on practical activities, quiz
5	Landscape - materials, components, environment, maintenance, support, and design of personal plot	3 Weeks	Research, assignments, observation of hands-on practical activities, quiz
6	Research and present biotic and abiotic eco interactions	2 Weeks	Research and presentation

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

A1. demonstrate an understanding of species classification and identification and of relationships between species and geographical regions;

A2. demonstrate an understanding of the effects of biotic and abiotic factors on growth and product quality;

A3. demonstrate an understanding of design and planning processes and their application to a variety of requirements in the green industries;

A4. use mathematical, documentation, research, and communication skills as they apply to the green industries.

B1. demonstrate an understanding of and apply design and production practices that are commonly used in the green industries;

B2. apply management strategies for assessing and controlling biotic and abiotic factors that affect plant and/or animal quality;

B3. demonstrate competence in technical skills relating to specific applications and tasks in the green industries.

C1. identify the impact of the green industries on the environment and describe ways of minimizing harmful effects;

C2. describe social and economic relationships and issues involving the green industries.

D1. demonstrate an understanding of and apply safe working practices as they relate to the green industries;

D2. identify careers in the green industries, and describe the skills, education, and training required for entry into these occupations.

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 minimum 1 GB flash memory stick.
- 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: Hands-on-activities, demonstrations, presentations, videos, illustrations, tutorials, field trips, computers, practical projects

Culminating Activities: Written exam and project work

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, Application)

Culminating Activities: 30% Written exam and project work

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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Teacher's Signature

Student's Signature

Parent's Signature