

### **Communications Technology, Grade 11 University/College Preparation (TGJ3M)**

This course examines communications technology from a media perspective. Students will develop knowledge and skills as they design and produce media projects in the areas of live, recorded, and graphic communications. These areas may include TV, video, and movie production; radio and audio production; print and graphic communications; photography; digital imaging; broadcast journalism; and interactive new media. Students will also develop an awareness of related environmental and societal issues and explore college and university programs and career opportunities in the various communications technology fields. Prerequisite: None *Bawating, CASS, Elliot Lake, Korah, SJD, White Pines and Korah only*

### **Construction Technology, Grade 11 Workplace Preparation (TCJ3E)**

This course enables students to develop technical knowledge and skills related to carpentry, masonry, electrical systems, heating and cooling, and plumbing for residential construction. Students will gain hands on experience using a variety of materials, processes, tools, and equipment to design, lay out, and build projects. They will create and read technical drawings, learn construction terminology, interpret building codes and regulations, and apply mathematical skills as they develop construction projects. Students will also develop an awareness of environmental and societal issues related to construction technology, and explore postsecondary and career opportunities in the field. Prerequisite: None *Alexander Henry, CASS, Elliot Lake, Hornepayne, Michipicoten, and SJD only. At SJD, this course focuses on Technical Survival Skills including basic carpentry techniques, tool selection and use, materials, electrical wiring, basic automotive repair, plumbing, drywall, painting and wallpapering. Individual and small group projects are the vehicle used to develop practical skills.*

### **Construction Engineering Technology, Grade 11 College Preparation (TCJ3C)**

This course focuses on the development of knowledge and skills related to residential construction. Students will gain hands on experience using a variety of construction materials, processes, tools, and equipment; learn about building design and planning construction projects; create and interpret working drawings and sections; and learn how the Ontario Building Code and other regulations and standards apply to construction projects. Students will also develop an awareness of environmental and societal issues related to construction technology, and explore career opportunities in the field. Prerequisite: None

*All schools except Alexander Henry and Chapleau Korah offers a section of this course for females only. At WC Eaket the course is offered as a 1 or 2 credit package.*

### **Manufacturing Engineering Technology, Grade 11 College Preparation (TMJ3C)**

This course enables students to develop knowledge and skills through hands-on, project-based learning. Students will acquire design, fabrication, and problem-solving skills while using tools and equipment such as lathes, mills, welders, computer-aided machines, robots, and control systems. Students may have opportunities to obtain industry-standard certification and training. Students will develop an awareness of environmental and societal issues related to manufacturing and will learn about pathways leading to careers in the industry. Prerequisite: None *Bawating, CASS, Elliot Lake, Korah, SJD, WC Eaket and White Pines only*

### **Technological Design and the Environment, Grade 11, Open (TDJ30)**

This course enables students to apply a systematic process for researching, designing, building, and assessing solutions to address specific human and environmental challenges. Through their work on various projects, students will explore broad themes that may include aspects of industrial design, mechanical design, architectural design, control system design, and/or apparel design. Students will develop an awareness of environmental and societal issues related to technological design, and will learn about secondary and postsecondary pathways leading to careers in the field. Prerequisite: None *Alexander Henry and Elliot Lake only*

### **Transportation Technology: Vehicle Ownership, Grade 11, Open (TTJ3O)**

This course enables students to develop technical knowledge and skills as they study, test, service, and repair engine, electrical, suspension, brake, and steering systems on vehicles, aircraft, and/or watercraft. Students will develop communication and teamwork skills through practical tasks, using a variety of tools and equipment. Students will develop an awareness of environmental and societal issues related to transportation and will learn about apprenticeship and college programs leading to careers in the transportation industry. Prerequisite: None *Alexander Henry, CASS, Elliot Lake, Korah, Michipicoten, and SJD*

### **Transportation Technology, Grade 11 College Preparation (TTJ3C)**

This course examines the infrastructure required for the operation of land, air, and/or marine vehicles. Students will design, construct, and modify vehicles, and apply safe work practices and procedures using current technology. They will also develop effective communication and teamwork skills when developing solutions to managing vehicle support systems; investigate the educational requirements for career opportunities in the transportation sector; and analyse the impact of transportation technology on society and the environment. Prerequisite: None (Recommended: TTJ20) *All schools except Chapleau. At WC Eaket the course is offered as a 2 credit package.*