

Grade 11 Courses Offered at FFSS

(Sorted by Department)

THE ARTS

Dramatic Arts (Open)

ADA 3OR

Recommend: Dramatic Arts, Grade 9 (ADA1OR) and 10 (ADA2OR), Open

This course requires students to engage in dramatic processes and the presentation of dramatic works, and emphasizes the application of drama skills in other contexts and opportunities. Students will interpret and present works in a variety of dramatic forms, create and script original works, and critically analyse the processes involved in producing drama works. Students will develop a variety of skills related to collaboration and the presentation of drama works.

Dramatic Arts (University/College)

ADA 3MR

Prerequisite: Dramatic Arts, Grade 9 (ADA1OR) or 10 (ADA2OR), Open

Recommend: Dramatic Arts, Grade 9 (ADA1OR) and 10 (ADA2OR), Open

This course requires students to create and perform in dramatic presentations. Students will analyse, interpret, and perform dramatic works from various cultures and time periods. Students will research various acting styles and conventions that could be used in their presentations, and analyse the functions of playwrights, directors, actors, designers, technicians, and audiences.

Music (Introductory Guitar) (Open)

AMG 2OR

Note: Students will be required to supply their own instrument.

This course emphasizes the performance of music at a level that strikes a balance between challenge and skill. Student learning will include participating in creative activities and listening perceptively. Students will also be prepared to develop a thorough understanding of the language of music, including the elements, terminology, and history. Previous musical experience is not a requirement of this course however students must provide their own acoustic guitar.

Music (Guitar) (Open)

AMG 3OR

Note: Students will be required to supply their own instrument.

Prerequisite: Music, Introductory Guitar, (AMG2OR), Open

This course develops students' musical literacy (specific to guitar) through performance and the preparation and presentation of music productions. Students will perform works at a level consistent with previous experience. Independently and collaboratively, students will use current technology and the creative and critical analysis processes to plan, produce, present, and market musical (guitar based) productions. Students will respond to, reflect on, and analyse music from various genres and periods, and they will develop skills transferable to other aspects of their life and their careers.

Music (Band) (University/College)

AMU 3MR

Prerequisite: Music, Grade 9 Band (AMU1OR) or 10 Band (AMU2OR), Open

Recommend: Music, Grade 9 Band (AMU1OR) and 10 Band (AMU2OR), Open

This course provides students with opportunities to develop their musical literacy through the creation, appreciation, analysis, and performance of music, including traditional, commercial, and art music. Students will apply the creative process when performing appropriate technical exercises and repertoire and will employ the critical analysis processes when reflecting on, responding to, and analysing live and recorded performances. Students will consider the function of music in society and the impact of music on individuals and communities. They will explore how to apply skills developed in music to their life and careers.

Visual Arts (Novice) (Open)**AVI 201**

This course is specifically designed for students who have not taken AVI10R

This course emphasizes learning through practice; and introducing students to new ideas, materials, and processes for artistic thinking and experimentation. Student learning will include the refined application of the elements and principles of design, incorporating the creative and design processes, and the relationship between form and content. Students will also learn about the connections between works of art and their historical contexts. Course objectives may be achieved either through a comprehensive program or through a program focused on a particular art form. The primary focus will be on studio experiences (e.g., drawing, painting, sculpture) which are DESIGNED TO INTRODUCE and develop the student's knowledge of visual communication, expression and creativity. (\$10 enhancement fee)

Visual Arts (Open)**AVI 30R**

This course is recommended for students who want to continue in Art, after taking AVI201, Novice Art.

This course focuses on studio activities in one or more of the visual arts, including drawing, painting, sculpture, photography, printmaking, collage, and/or multimedia art. Students will use the creative process to create art works that reflect a wide range of subjects and will evaluate works using the critical analysis process. Students will also explore works of art within a personal, contemporary, historical, and cultural context. (\$15 enhancement fee)

Visual Arts (University/College)**AVI 3MR**

Prerequisite: Visual Arts, Grade 9 (AVI 10R) Open or Grade 10 (AVI20R), Open

Strongly Recommend: Visual Arts, Grade 9 (AVI 10R) Open and Grade 10 (AVI 20R) Open

This course enables students to further develop their knowledge and skills in visual arts. Students will use the creative process to explore a wide range of themes through studio work that may include drawing, painting, sculpting, and printmaking, as well as the creation of collage, multimedia works, and works using emerging technologies. Students will use the critical analysis process when evaluating their own work and the work of others. The course may be delivered as a comprehensive program or through a program focused on a particular art form (e.g., photography, video, computer graphics, and information design). This third year program involves the academic and theoretical exploration of critical issues through investigations in art making and art history (Neoclassicism to Post Impressionism) in order to enhance the students' ability to produce and understand art objects through experiences designed to refine the technical and intellectual skills integral to effective visual communication. (\$20 enhancement fee)

Visual Arts (Intermediate Photography) (University/College)**AWQ 3MR**

Prerequisite: Visual Arts, Grade 10 Introductory Photography (AWQ20R), Open

This course focuses on PHOTOGRAPHY including the 35mm & digital camera as well as darkroom procedures & digital image processing.

This course provides students with opportunities to further develop their skills and knowledge in visual arts. Students will explore a range of subject matter through studio activities, and will consolidate their practical skills. Students will also analyze art works and study aspects of Western art history (Photography), as well as art forms from Canada and other parts of the world. The primary focus will be on using photography (including traditional and digital technology) as a unique, creative, and expressive form of art making which will supplement the students' artistic abilities and personal photographic interests by further developing technical and critical thinking skills, through studio experiences. (\$50 enhancement fee)

BUSINESS

Introduction to Financial Accounting (University/College)

BAF 3MR

This course introduces students to the fundamental principles and procedures of accounting, with emphasis on accounting procedures used in service and merchandising businesses. Students will develop an understanding of the connections between financial analysis, control, and decision making in the management of a business, as well as the effects of technology and globalization on accounting procedures and the role of the accountant.

Introduction to Marketing (College)

BMI 3CR

This course introduces the fundamental concepts of marketing, with an emphasis on in-depth analysis of the influence of changes in the economy and global marketplace, trends and issues, and the impact of technology. Students will analyze the buying patterns of various consumers and the effect of marketing strategies, and will engage in marketing research. Students will also develop and present a marketing plan for a specific product. In addition, students will have the opportunity to create a new product or service and take that product/service from the idea stage to the consumer.

Interdisciplinary Course WEBSITE DESIGN

IDC 3OR

Utilising expectations from ICS 3MR this course has the student create their own website. This course helps students examine computer science concepts and develop information technology skills. Students will outline stages in software development, define standard control and data structures, identify online and off-line resources, develop programming and problem-solving skills, and explore information technology in business - specifically web site design.

CANADIAN & WORLD STUDIES

American History (University)

CHA 3UR

Prerequisite: Canadian History in the Twentieth Century, Grade 10, Academic or Applied

This course traces the social, economic, and political development of the United States from colonial times to the present. Students will explore the historical context of key developments that shaped the United States, its identity and culture, and its role in the global community. They will extend their ability to apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, when investigating forces in American history.

World History to the End of the Fifteenth Century (University/College)

CHW 3MR

Prerequisite: Canadian History in the Twentieth Century, Grade 10, Academic or Applied

This course explores the history of various societies around the world, from earliest times to around 1500 CE. Students will examine life in and the legacy of various ancient and pre-modern societies throughout the world, including those in, Africa, Asia, Europe, and the Americas. Students will extend their ability to apply the concepts of historical thinking and the historical inquiry process, including the interpretation and analysis of evidence, when investigating social, political, and economic structures and historical forces at work in various societies and in different historical eras..

Understanding Canadian Law (University/College)

CLU 3MR

Prerequisite: Canadian History in the Twentieth Century, Grade 10, Academic or Applied

This course explores Canadian law, with a focus on legal issues that are relevant to the lives of people in Canada. Students will gain an understanding of rights and freedoms in Canada, our legal system, and family, contract, employment, tort, and criminal law. Students will use case studies and apply the concepts of legal thinking and the legal inquiry process to develop legal reasoning skills and to formulate and communicate informed interpretations of legal issues, and they will develop the ability to advocate for new laws.

Travel and Tourism: A Geographic Perspective (Open)**CGG 3OR****Prerequisite: Issues in Canadian Geography, Grade 9**

This course focuses on issues related to travel and tourism within and between various regions of the world. Students will investigate unique environmental, sociocultural, economic, and political characteristics of selected world regions. They will explore travel patterns and trends, as well as tensions related to tourism, and will predict future tourism destinations. Students will apply the concepts of geographic thinking and the geographic inquiry process, including spatial technologies, to investigate the impact of the travel industry on natural environments and human communities.

Introduction to Anthropology, Psychology, and Sociology (College)**HSP 3CR**

This course introduces students to theories, questions, and issues related to anthropology, psychology, and sociology. Students learn about approaches and research methods used by social scientists. They will be given opportunities to apply theories from a variety of perspectives, to conduct social science research, and to become familiar with current issues within the three disciplines.

Introduction to Anthropology, Psychology, and Sociology (University)**HSP 3UR**

This course provides students with opportunities to think critically about theories, questions, and issues related to anthropology, psychology, and sociology. Students will develop an understanding of the approaches and research methods used by social scientists. They will be given opportunities to explore theories from a variety of perspectives, to conduct social science, and to become familiar with current thinking on a range of issues within the three disciplines.

Beliefs, Values and Aspirations of Aboriginal Peoples in Contemporary Society (College)**NBV 3CR****Prerequisite: Canadian History in the Twentieth Century, Grade 10, Academic or Applied**

This course focuses on the diverse beliefs, values, and aspirations between First Nations, Métis, and Inuit peoples of Canada and the political, economic, cultural and social challenges facing Aboriginal individuals and communities from various regions and cultures. By examining their own beliefs, values and assumptions, the worldviews of others and factors that influence world views, students will appreciate how traditional and contemporary beliefs and values influence present and future aspirations of Aboriginal peoples.

Beliefs, Values and Aspirations of Aboriginal Peoples in Contemporary Society (Workplace)**NBV 3ER****Prerequisite: Canadian History in the Twentieth Century, Grade 10, Academic or Applied**

This course focuses on the diverse beliefs, values, and aspirations between First Nations, Métis, and Inuit peoples of Canada. Students will examine issues of identity facing Aboriginal individuals and communities in connection to changing relationships with the land, nature, one another and Canada. By examining their own worldview and investigating factors that influence perspectives over time, students will develop their understanding of how traditional and contemporary beliefs and values influence present and future aspirations of Aboriginal peoples.

COMPUTER STUDIES**Introduction to Computer Programming****ICS 3CR****Prerequisite: None**

This course introduces students to computer programming concepts and practices. Students will write and test computer programs, using various problem-solving strategies. They will learn the fundamentals of program design and apply a software development life-cycle model to a software development project. Students will also learn about computer environments and systems, and explore environmental issues related to computers, safe computing practices, emerging technologies, and postsecondary opportunities in computer-related fields. **This course will focus on computer programming (coding) and feature elements of video game design.**

Introduction to Computer Science

ICS 3UR

Prerequisite: None

This course introduces students to computer science. Students will design software independently and as part of a team, using industry-standard programming tools and applying the software development life-cycle model. They will also write and use subprograms within computer programs. Students will develop creative solutions for various types of problems as their understanding of the computing environment grows. They will also explore environmental and ergonomic issues, emerging research in computer science, and global career trends in computer-related fields. **This course will focus on more advanced computer programming (coding) and feature elements of video game design.**

ENGLISH

Media Studies (Open)

EMS 3OR

Prerequisite: English, Grade 10, Academic or Applied

This course emphasizes knowledge and skills that will enable students to understand media communication in the twenty-first century and to use media effectively and responsibly. Through analyzing the forms and messages of a variety of media works and audience responses to them, and through creating their own media works, students will develop critical thinking skills, aesthetic and ethical judgement, and skills in viewing, representing, listening, speaking, reading, and writing.

English (Workplace)

ENG 3ER

Prerequisite: English, ENG 2LR

This course emphasizes the development of literacy, critical thinking, and communication skills. Students will study the content, form, and style of informational texts and literary works; write explanations, letters, and reports; and investigate the connections among media forms, audiences, and media industry practices. An important focus will be on using language clearly, accurately, and effectively in a variety of contexts listening, speaking, reading, and writing.

English (College)

ENG 3CR

Prerequisite: English, Grade 10, Academic or Applied

This course emphasizes the development of literacy, critical thinking, and communication skills. Students will study content, form, and style of informational texts and literary works from Canada and other countries; write reports, correspondence, and persuasive essays; and analyze media forms, audiences, and media industry practices. An important focus will be on establishing appropriate voice and using business and technical language with precision and clarity.

English (University)

ENG 3UR

Prerequisite: English, Grade 10, Academic

This course emphasizes the development of literacy, critical thinking, and communication skills. Students will analyze challenging texts from various periods; conduct research and analyze the information gathered; write persuasive and literary essays; and analyze the relationship among media forms, audiences, and media industry practices. An important focus will be on understanding the development of the English language.

FAMILY STUDIES

Managing Personal Resources (Open)

HIP 4OR

This course focuses on preparing students for living independently and working successfully with others. Students will learn to manage their personal resources to meet their basic needs for food, clothing, and housing. They will also learn about their personal, legal, and financial responsibilities and develop and apply interpersonal skills in order to make wise and responsible personal and occupational choices. Students will apply research and inquiry skills while investigating topics related to personal life management. The course emphasizes the achievement of expectations through practical experiences.

Understanding Fashion (College)

HNC 3CR

This course introduces students to the world of fashion. Students will gain an understanding of theories related to fashion trends and of how culture, media, fashion cycles, retailing, and social and environmental factors influence fashion trends and consumer behaviour. Students will use various tools, technologies, and techniques safely and correctly to create fashion items. They will apply knowledge of fibres, fabrics, and the elements and principles of design when creating and assessing fashion-related products. Students will develop research skills as they investigate topics related to fashion.

Raising Healthy Children (Open)

HPC 3OR

This course focuses on the skills and knowledge parents, guardians, and caregivers need, with particular emphasis on maternal health, pregnancy, birth, and the early years of human development (birth to six years old). Through study and practical experience, students will learn how to meet the developmental needs of young children, communicate with them, and effectively guide their early behaviour. Students will develop their research skills through investigations related to caregiving and child rearing.

FRENCH

Core French (University)

FSF 3UR

Prerequisite: Core French, Grade 10, Academic

This course offers students extended opportunities to speak and interact in real-life situations in French with greater independence. Students will develop their creative and critical thinking skills through responding to and exploring a variety of oral and written texts. They will continue to broaden their understanding and appreciation of diverse French-speaking communities and to develop the skills necessary for life-long language learning.

GUIDANCE & CAREERS

Leadership and Peer Support (Open)

GPP 3OR

Prerequisite: Career Studies, Grade 10

This course prepares and motivates students to provide leadership and assistance to others in their school and communities. Students will develop skills in communication, interpersonal relations, coaching, leadership, teamwork, and conflict management, and apply them in roles such as tutoring, mentoring, and student council involvement. Students will also learn the value and complexity of social diversity, while acquiring an appreciation of the importance of contributing to their communities and helping others throughout their lives. Being a peer tutor requires excellent attendance and a strong sense of responsibility and commitment: an interview/information session will be part of the admission procedure for this course.

Cooperative Education (Open)**GWL30D (2 credits) or GWL30Q (4 credits)****Prerequisite: None**

A cooperative education course linked to a related course (or courses) from the Ontario curriculum (or a locally developed course) consists of a community-connected experience, the cooperative education curriculum, and a set of expectations from the related course. Students will learn about safety and well-being throughout the experience, and will create, implement, and reflect on, a learning plan that meets their interests and needs and supports education and career/life planning. Through the experience, students will apply and extend their learning from the related course, and make connections with other aspects of their lives.

HEALTH & PHYSICAL EDUCATION**Healthy Active Living Education (Open)****PPL 3OR**

This course focuses on the development of a healthy lifestyle and participation in a variety of enjoyable physical activities that have the potential to engage students' interest throughout their lives. Students will be encouraged to develop personal competence in a variety of movement skills and will be given opportunities to practice goal-setting, decision-making, social, and interpersonal skills. Students will also study the components of healthy relationships, reproductive health, mental health, and personal safety.

Outdoor Activities**PAD 3OR - (Co-ed)**

(Enhancement fee of \$250.00 is required to cover the cost of certification courses.)

Personal and Fitness Activities- Body Shop**PAF 3OM (Male)****Personal and Fitness Activities- Live Fit****PAF 3OF (Female)**

Emphasis on fitness and development through group fitness classes, individual cardiovascular and weight training programs as well as fitness leadership skills

Healthy Active Living**PPL 3OR (Coed)**

It is highly recommended that students have a minimum of 1 Healthy Active Living credit before choosing PPL3OR, PAF3OF/M

MATHEMATICS**Foundations for College Mathematics (College)****MBF 3CR****Prerequisite: Foundations of Mathematics, Grade 10, Applied**

This course enables students to broaden their understanding of mathematics as a problem-solving tool in the real world. Students will extend their understanding of quadratic relations; investigate situations involving exponential growth; solve problems involving compound interest; solve financial problems connected with vehicle ownership; and develop their ability to reason by collecting, analysing, and evaluating data involving one and two variables. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.

Functions and Applications (University/College)**MCF 3MR****Prerequisite: Principles of Mathematics, Grade 10, Academic or Foundations of Mathematics, Grade 10 Applied**

This course introduces basic features of the function by extending students' experiences with quadratic relations. It focuses on quadratic, trigonometric, and exponential functions and their use in modelling real-world situations. Students will represent functions numerically, graphically, and algebraically; simplify expressions; solve equations; and solve problems relating to financial and trigonometric applications. Students will reason mathematically and communicate their thinking as they solve multi-step problems.

Functions and Relations (University)**MCR 3UR*****Prerequisite: Principles of Mathematics, Grade 10, Academic***

This course introduces the mathematical concept of the function by extending students' experiences with linear and quadratic relations. Students will investigate properties of discrete and continuous functions, including trigonometric and exponential functions; represent functions numerically, algebraically, and graphically; solve problems involving applications of functions; and develop facility in simplifying polynomial and rational expressions. Students will reason mathematically and communicate their thinking as they resolve multi-step problems.

Mathematics for Work and Everyday Life (Workplace)**MEL 3ER*****Prerequisite: Mathematics, Grade 10, Applied, Academic or Essential***

This course enables students to broaden their understanding of mathematics as it is applied in the workplace and daily life. Students will solve problems associated with earning money, paying taxes, and making purchases; apply calculations of simple and compound interest in saving, investing, and borrowing; and calculate the costs of transportation and travel in a variety of situations.

This is courses is open to Grade 11 and 12 students**SCIENCE****Biology (College)****SBI 3CR*****Prerequisite: Science, Grade 10, Academic or Applied***

This course focuses on the processes that occur in biological systems. Students will learn concepts and theories as they conduct investigations in the areas of cellular biology, microbiology, genetics, the anatomy of mammals, and the structure of plants and their role in the natural environment. Emphasis will be placed on the practical application of concepts, and on the skills needed for further study in various branches of the life sciences and related fields.

Science (Workplace)**SVN 3ER*****Prerequisite: Grade 9 Science, locally developed, academic or applied***

This course provides students with the fundamental knowledge of and skills relating to environmental science that will help them succeed in work and life after secondary school. Students will explore a range of topics, including the impact of human activities on the environment; human health and the environment; energy conservation; resource science and management; and safety and environmental responsibility in the workplace. Emphasis is placed on relevant, practical applications and current topics in environmental science, with attention to the refinement of students' literacy and mathematical literacy skills as well as the development of their scientific and environmental literacy.

Environmental Science (University/College)**SVN 3MR*****Prerequisite: Grade 10 Science Applied or Academic***

This course provides students with the fundamental knowledge of and skills relating to environmental science that will help them succeed in life after secondary school. Students will explore a range of topics, including the role of science in addressing contemporary environmental challenges; the impact of the environment on human health; sustainable agriculture and forestry; the reduction and management of waste; and the conservation of energy. Students will increase their scientific and environmental literacy and examine the interrelationships between science, the environment, and society in a variety of areas.

Biology (University)**SBI 3UR*****Prerequisite: Gr. 10 Science Academic***

This course furthers students' understanding of the processes that occur in biological systems. Students will study theory and conduct investigations in the areas of biodiversity; evolution; genetic processes; the structure and function of animals; and the anatomy, growth, and function of plants. The course focuses on the theoretical aspects of the topics under study, and helps students refine skills related to scientific investigation.

Chemistry (University)**SCH 3UR*****Prerequisite: Science, Grade 10, Academic***

This course enables students to deepen their understanding of chemistry through the study of the properties of chemicals and chemical bonds; chemical reactions and quantitative relationships in those reactions; solutions and solubility; and atmospheric chemistry and the behaviour of gases. Students will further develop their analytical skills and investigate the qualitative and quantitative properties of matter, as well as the impact of some common chemical reactions on society and the environment.

Physics (University)**SPH 3UR*****Prerequisite: Science, Grade 10, Academic***

This course develops students' understanding of the basic concepts of physics. Students will explore kinematics, with an emphasis on linear motion; different kinds of forces; energy transformations; the properties of mechanical waves and sound; and electricity and magnetism. They will enhance their scientific investigation skills as they test laws of physics. In addition, they will analyse the interrelationships between physics and technology, and consider the impact of technological applications of physics on society and the environment.

TECHNOLOGY**Yearbook (Open)****IDC 3OY and IDC4UY*****Prerequisite: Interview with Staff Advisor including a Letter of Reference from one FFSS faculty member***

This course will help students combine the skills required for and knowledge of different subjects and disciplines to solve problems, make decisions, create personal meaning, and present findings beyond the scope of a single subject or discipline. Through individual and collaborative inquiry and research, students will analyse the connections among diverse subjects and disciplines: develop information literacy skills in analysing, selecting, evaluating, and communicating information; and become aware of a variety of resources and viewpoints on contemporary issues.

This is a double credit course in conjunction with IDC 4UY**Construction Technology (College)****TCJ 3CR*****Strongly Recommend: TCJ2CR***

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.

Construction Technology (Workplace)**TCJ 3ER****Strongly Recommend: TCJ2CR**

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.

Technological Design (University/College)**TDJ 3MR****Strongly Recommend: TDJ2MR**

This course examines how technological design is influenced by human, environmental, financial, and material requirements and resources. Students will research, design, build, and assess solutions that meet specific human needs, using working drawings and other communication methods to present their design ideas. They will develop an awareness of environmental, societal, and cultural issues related to technological design, and will explore career opportunities in the field, as well as the college and/or university program requirements for them.

Computer Engineering Technology (University/College)**TEJ 3MR**

This course examines computer systems and control of external devices. Students will assemble computers and small networks by installing and configuring appropriate hardware and software. Students will develop knowledge and skills in electronics, robotics, programming, and networks, and will build systems that use computer programs and interfaces to control and/or respond to external devices. Students will develop an awareness of environmental and societal issues related to the use of computers, and will learn about college and university programs leading to careers in computer engineering. "Students who successfully complete the computer engineering courses are eligible for advanced status at Sir Sandford Fleming College in the Hardware Fundamentals program."

Hospitality and Tourism (College)**TFJ 3CR**

This course enables students to develop or expand knowledge and skills related to hospitality and tourism, as reflected in the various sectors of the tourism industry. Students will learn about preparing and presenting food, evaluating facilities, controlling inventory, and marketing and managing events and activities, and will investigate customer service principles and the cultural and economic forces that drive tourism trends. Students will develop an awareness of health and safety standards, environmental and societal issues, and career opportunities in the tourism industry.

Hospitality and Tourism (Workplace)**TFJ 3ER**

This course enables students to acquire knowledge and skills related to the food and beverage services sector of the tourism industry. Students will learn how to prepare, present, and serve food using a variety of tools and equipment and will develop an understanding of the fundamentals of providing high quality service to ensure customer satisfaction and the components of running a successful event or activity. Students will develop an awareness of health and safety practices, environmental and societal issues, and career opportunities in the food and beverage services sector.

Communications Technology (University/College)**TGJ 3MR****Strongly Recommend: TGJ 2OR**

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.

Green Industries (Workplace)**THJ 3ER**

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.

Manufacturing Technology (College)**TMJ 3CR*****Strongly Recommend: TMJ 2OR***

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.

Manufacturing Technology (Workplace)**TMJ 3ER*****Strongly Recommend: TMJ2OR***

This hands-on, project-based course is designed for students planning to enter an occupation or apprenticeship in manufacturing directly after graduation. Students will work on a variety of manufacturing projects, developing knowledge and skills in design, fabrication, and problem solving and using tools and equipment such as engine lathes, milling machines, and welding machines. In addition, students may have the opportunity to acquire industry standard certification and training. Students will develop an awareness of environmental and societal issues related to manufacturing and will learn about secondary school pathways that lead to careers in the industry.

Automotive Transportation Technology (College)**TTJ 3CR*****Strongly Recommend: TTJ2OR***

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.

Small Engines and Recreational Equipment Transportation Technology (College)**TTJ 3C1*****Strongly Recommend: TTJ2O1***

This general interest course enables students to become familiar with the options and features of various vehicles, issues of registration, and the legal requirements affecting vehicle owners. Students will also learn about vehicle financing and insurance, vehicle maintenance, emergency procedures, and the responsibilities of being a vehicle owner. Students will develop an awareness of environmental and societal issues related to vehicle ownership and use, and will explore career opportunities in the transportation industry.

Custom Woodworking (Workplace)**TWJ 3ER**

This course enables students to develop knowledge and skills related to cabinet making and furniture making. Students will gain practical experience using a variety of the materials, tools, equipment, and joinery techniques associated with custom woodworking. Students will learn to create and interpret technical drawings and will plan, design, and fabricate projects. They will also develop an awareness of environmental and societal issues related to the woodworking industry, and explore apprenticeships, postsecondary training, and career opportunities in the field that may be pursued directly after graduation.