

Guelph Collegiate Vocational Institute
Grade 11 Course Selection for 2016-2017

Art

AVI3M - Visual Arts, University/College Preparation

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 emergent technologies. Students will use the critical analysis process when evaluating their own work and the work of others. This course is a comprehensive program. Students will analyze art works and study aspects of Western art history, as well as art forms from Canada and other parts of the world.

Prerequisite: AVI10 or AVI20

ASM3M Media Arts University/College Preparation

This course provides students with opportunities to further develop their skills and knowledge in media arts. Students will explore a range of subject matter and techniques through digital image manipulation. This course will focus on non-traditional image development, sculptural exploration and different media techniques in artworks influenced by contemporary digital software.

Prerequisite: ASM20

AWT30 - Non-Traditional Media, Open

This course focuses on studio activities in one or more of the visual arts. Students will create art works that explore a wide range of subject matter. They will also examine historical and cultural contexts of Western art (including Canadian art) and art from various world cultures to support their study of specific media. This course will focus on non-traditional image development including digital media and photography.

Prerequisite: None

Recommended for senior students who do not have an arts credit.

Business Department

BAF3M - Financial Accounting Fundamentals, University/College Preparation

This course introduces students to the fundamental principles and procedures of accounting. Students will develop financial analysis and decision-making skills that will assist them in future studies and/or career opportunities in business. Students will acquire an understanding of accounting for a service and a merchandising business, computerized accounting, financial analysis, and current issues and ethics in accounting. Optional Workbook

Fee: \$22.00

BAI3E - Accounting Essentials, Workplace Preparation

This course introduces students to the accounting cycle of a service business. Students will use computer application software to record business transactions and to prepare financial statements. Students will also investigate banking and cash management, decision-making, ethical behaviour, and career opportunities in the field of accounting. Optional Workbook Fee: \$20.00

BMI3C - Marketing: Goods, Services and Events

This course introduces the fundamental concepts of product marketing, which includes the marketing of goods, services, and events. Students will examine how trends, issues, global economic changes, and information technology influence consumer-buying habits. Students will engage in marketing research, develop marketing strategies, and produce a marketing plan for a product of their choice. Students will also develop and present a marketing plan for a specific product, culminating in a trade show.

BMX3E - Marketing: Retail and Service

This course focuses on marketing activities in the retail and service sectors. Students will examine trends and global influences on marketing decisions, and will learn about the importance of customer service in developing a customer base and maintaining customer loyalty. Through hands-on learning, students will develop personal selling and information technology skills that will prepare them for a variety of marketing related positions in the workplace. This is an essential course for those students considering a career in retail.

BTA30 - Information and Communication Technology: The Digital Environment, Open

This course prepares students for the digital environment. Using a hands-on approach, students will further develop information and communication technology skills through the use of common business software applications. The concept and operation of e-business will be explored, and students will design and create an e-business website. The skills developed in this course will prepare students for success in the workplace and/or postsecondary studies. Students will use HTML to create web pages. Prerequisite if you take Business of Sport.

CLU3E - Understanding Canadian Law in Everyday Life, Workplace preparation

This course enables students to develop a practical understanding of laws that affect the everyday lives of people in Canada, including their own lives. Students will gain an understanding of the need for laws, and of their rights, freedoms, and responsibilities under Canadian law. Topics include laws relating to marriage, the workplace, cyberbullying, and criminal offences. Students will begin to develop legal reasoning skills and will apply the concepts of legal thinking and the legal studies inquiry process when investigating legal issues that are relevant to life in Canada today.

Prerequisite: Canadian History since World War I, Grade 10, Academic or Applied

CLU3M - Understanding Canadian Law, University/College Preparation

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 laws relating to rights and freedoms in Canada; our legal system; and family, contract, employment, tort, and criminal law. Students will develop legal reasoning skills and will apply the concepts of legal thinking and the legal studies inquiry process when investigating a range of legal issues and formulating and communicating informed opinions about them.

Prerequisite: Canadian History since World War I, Grade 10, Academic or Applied

BOH4M or GPP30 - Senior Leadership Course

The Senior Leadership Course is a course in applied leadership techniques. Students will study the characteristics of effective leadership and will apply these concepts to leadership opportunities in the school and the community. Students earning the GPP30 credit will focus on developing interpersonal and intrapersonal skills. They will work on goal setting and communication skills. Students earning the BOH4M credit will focus on critically identifying the

principles of effective leadership and how to utilize these principles in a practical way in managing successful businesses. Students will analyse the role of a leader in business, with a focus on decision-making, management of group dynamics, motivating workers and planning. All students interesting in taking this course are expected to complete an interview process. Successful applicants will be required to join Student Senate for the duration of the course.

Contact: Mr. Gouthro NOTE: Students may take both streams of this course, but it is strongly recommended that students take GPP30 before taking BOH4M.

Computer Studies

ICS3C - Introduction to Computer Programming, College Preparation

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.

ICS3U – Software Engineering, University Preparation

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.

Co-op

FTECO2 - 2 Credit Co-Op or FTECO4 – 4 Credit Co-op

Cooperative Education is a unique educational process designed to promote skill development, individual career development and self-awareness by integrating classroom learning with planned and supervised practical experiences in a community placement. The basic principle of Cooperative Education is that personal growth and career development are best achieved by an educational method which combines classroom learning with practical experiences. Learning does not confine itself to academic mastery. A student's attitude, interests, values, needs and motives depend equally upon practical experience and traditional academic learning. Cooperative Education provides realistic and relevant experiences that develop the whole person because it bridges the gap between classroom study and what a student needs to know to become a productive member of society.

Drama

ADA30 - Dramatic Arts, 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 dramatic works. Students will develop a variety of skills related to collaboration and the presentation of dramatic works. Prerequisite: None

ADA3M - Dramatic Arts, University/College Preparation

This course requires students to create and to perform 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.

Prerequisite: Drama, Grade 9 or 10, Open

ADF3M Director's Craft

In this challenging course, students learn to apply research and theory to theatre creation. Students are encouraged to make discoveries through experimentation, risk-taking and the presentation of ideas. Working both individually and collaboratively, students explore theory, dramatic literature and theatre conventions. This course requires students to attend live theatre performances to complement their reading and research. Prerequisites ADA20 and ENG2D.

AMT4M – Musical Theatre, University/College Preparation

This course focuses on the application of knowledge and skills related to the creation, interpretation, and production of Musical Theatre involving drama, music, dance and visual art. Students will study, evaluate, create, produce and promote a pre-selected musical. Students will have an opportunity to engage in supplemental tasks designed to enrich their understanding and enjoyment of Musical Theatre and develop leadership skills within the class.

This course runs every other year and it will next be offered in the 2017-2018 school year. Prerequisites: None

English

ENG3U - English, University Preparation

This course emphasizes the development of literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. Students will analyze challenging literary texts from various periods, countries, and cultures, as well as a range of informational and graphic texts, and create oral, written, and media texts in a variety of forms. An important focus will be on using language with precision and clarity and incorporating stylistic devices appropriately and effectively. The course is intended to prepare students for the compulsory Grade 12 university or college preparation course. Note: This course fulfils one of the compulsory English requirements.

Prerequisite: English, Grade 10, Academic

ENG3C - English, College Preparation

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 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. Note: This course fulfils one of the compulsory English requirements.

Prerequisite: English, Grade 10, Applied

Family Studies

HFC3M - Food and Culture, University/College Preparation

This course focuses on the flavours, aromas, cooking techniques, foods, and cultural traditions of world cuisines. Students will explore the origins of and developments in diverse food traditions. They will demonstrate the ability to cook with ingredients and equipment from a variety of cultures, compare food-related etiquette in many countries and cultures, and explain how Canadian food choices and traditions have been influenced by other cultures. Students will develop practical skills and apply social science research methods while investigating foods and food practices from around the world.

Prerequisite: None.

HLS30- Housing and Home Design, Open

This course introduces students to a range of issues related to housing and home design. Students will learn about the needs that housing fulfills; housing options; home maintenance and safety; and environmental, economic, legal, and social considerations related to housing. They will use the elements and principles of design to analyse design and decorating decisions. Students will develop research skills as they investigate issues related to housing and home design.

Prerequisite: None.

HNC3C - Understanding Fashion, College

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. Prerequisite: None. This course is strongly recommended preparation for HNB4M, The Fashion Industry. A voluntary enhanced programming fee of \$10.00 is recommended.

HPC30 - Raising Healthy Children, Open

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.

Prerequisite: None.

HSG3M - Gender Studies

This course enables students to explore the social construction of gender. Students will learn about the dynamic nature of gender roles and norms; sexism and power relations; and the impact of representations of women and men in the media, popular culture, and the arts. Students will analyse a range of gender equity issues, including gender-based violence and workplace equity, in both Canadian and global contexts. Students will develop and apply research skills and will design and implement a social action initiative relating to gender equity.

Prerequisite: None

Geography

CGF3M - Forces of Nature: Physical Processes and Disasters, University/College Prep.

In this course, students will explore physical processes related to the earth's water, land, and air. They will investigate how these processes shape the planet's natural characteristics and affect human systems, how they are involved in the creation of natural disasters, and how they influence the impacts of human disasters. Throughout the course, students will apply the concepts of geographic thinking and the geographic inquiry process and use spatial technologies to analyse these processes, make predictions related to natural disasters, and assess ways of responding to them.

Prerequisite: Geography of Canada, Grade 9, Academic or Applied

CGG30 - Travel and Tourism: A Geographic Perspective, Open

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. **Prerequisite:** Geography of Canada Grade 9, Academic or Applied

History

CHT30 - World History since 1900: Global and Regional Interactions

This course focuses on major developments in world history from 1900 to the present. Students will explore the causes and consequences of global and regional conflicts, the impact of significant individuals and social movements, and the effects of social, economic, and political developments around the world. 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 interactions within and between nations and other historical developments and events, including those that continue to affect people in various parts of the world.

CHW3M – World History to the end of the Fifteenth Century, University/College Preparation

This course explores the history of various societies and civilizations around the world, from earliest times to around 1500 CE. Students will investigate a range of factors that contributed to the rise, success, and decline of various ancient and pre-modern societies throughout the world and will examine life in and the cultural and political legacy of these societies. 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.

Interdisciplinary Studies

DAVINCI Science and Art Environmental Leadership Program, Grade 11

The Grade 11 DaVinci Science and Art Environmental Leadership Program is a unique program that takes place off-campus, at the J.C. Taylor Nature Centre at the University of Guelph. Students will take courses in Biology, Art, English and Social Science in a natural setting nestled amongst hiking trails, forests and ponds with the University Arboretum and Nature Centre close by. Students will explore nature and environmental issues through literature, visual arts, science and geography. They will consolidate what they have learned and develop their leadership and interpersonal skills by teaching an environmental and art-based program to elementary students. Students will participate in a five-day wilderness trip, which will include biological and artistic components. Throughout the course students will develop communication, critical and creative thinking skills necessary for success in academic and daily life. There will be opportunities to visit the university and participate in some labs and studios and interact with university students and staff.

Courses and Prerequisites in the DAVINCI Program:

AEA30: Visual Arts, Grade 11, Open

Prerequisite: Any Grade 9 art, (music, drama, media studies or dance) HSP3M: Intro to Social Science, Grade 11, University/College Preparation

Prerequisite: none

ENG3U: English, Grade 11, University Preparation

Prerequisite: English, Grade 10, Academic

SBI3U: Biology, Grade 11, University Preparation

Prerequisite: Science, Grade 10, Academic

Cost: There will be a course participation fee of approximately \$300. However, no student will be denied due to financial reasons.

Students will be expected to find their own transportation to and from the site.

Contact: The Guidance Office

IDC30Y - Applied Journalism, Grade 11, Open

This course will help students create informative print, media, and electronic products for school and community audiences in diverse formats (e.g., yearbook entries, newspapers, radio and television broadcasts, photojournalism, web pages). Students will investigate sources of information and compare differing perspectives on key issues, developing both a sense of news and news judgment. They will also learn editorial conventions and practices, principles of print and web design, and management skills, and will explore legal and ethical uses of information that is made public, as well as journalism careers.

Contact: Mr. Bersche

Languages

FSF3U Core French, University Preparation

This course offers students extended opportunities to speak and interact in real-life situations in French with greater independence. Students will develop their listening, speaking, reading, and writing skills, as well as their creative and critical thinking skills, through responding to and exploring a variety of oral and written texts. They will also broaden their understanding and appreciation of diverse French-speaking communities, and will develop skills necessary for lifelong language learning. Prerequisite: Core French, Grade 10, Academic

LWSCU, Spanish, University Preparation (Gr. 11)

This course allows students opportunities to further their knowledge of the Spanish language and to further develop an appreciation for Spanish culture through language. Students build and apply their knowledge of Spanish while exploring a variety of themes, such as art, music, traditions, and an overview of Spanish-speaking people in the world. Students also enhance their thinking skills through the critical study of literature. They continue to explore aspects of the countries where Spanish is spoken through a variety of print and technological resources.

Prerequisite: LWSBD

LWGCU German, University Preparation (Gr. 11)

This course builds on skills learned in Grade 10 German. Students will use language and read age and language appropriate passages for various purposes. They will explore aspects of the culture of countries where German is spoken, including social customs and the arts, by participating in cultural events and activities involving both print and technological resources.

Prerequisite: LWGBD

Math

MEL3E Mathematics for Work and Everyday Life, Workplace Preparation

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. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.

MBF3C Foundations for College Mathematics, College Preparation

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, analyzing, and evaluating data involving one and two variables. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.

Prerequisite: MFM2P (A mark of 70% is recommended.)

MCF3M Functions and Applications, University/College Preparation

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 modeling 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.

Prerequisite: MPM2D or MFM2P (Strong learning skills and a minimum mark of 80% is highly recommended.)

MCR3U Functions, University Preparation

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 solve multi-step problems.

Prerequisite: MPM2D (A mark of 70% is recommended.)

Music

AMG30 Introductory Guitar, Open

This course develops students' musical literacy 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 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.

Prerequisite: None (Students with previous guitar experience who read musical notation should audition for AMG4M to determine appropriate course placement.)

AMI3M Instrumental Music, University/College Preparation

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.

Prerequisite: AMI20

AMV3M Vocal Music, University/College Preparation

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.

Prerequisite: AMV20

Physical Education

PAL 30 – HEALTHY ACTIVE LIVING, Grade 11 - Open

This co-educational course enables students to further develop the knowledge and skills they need to make healthy choices now and lead healthy, active lives in the future. Through participation in a wide range of physical activities and exposure to a broader range of activity settings, students enhance their movement competence, personal fitness, and confidence. Students also acquire an understanding of the factors and skills that contribute to healthy development and learn how their own well-being is affected by, and affects, the world around them. Students build their sense of self, learn to interact positively with others, and develop their ability to think critically and creatively. A voluntary enrichment experiences fee may apply.

PAD30 Outdoor Education - Open

This co-educational course offers students participation in a variety of outdoor activities that will engage students at many levels. The course will increase the students' environmental awareness and enhance their leadership abilities. Experiences will include, challenges such as a five-day canoe trip to Algonquin Park, two week biking unit exploring local trails in/and around Guelph Lake, cross country skiing, hiking, winter sports, and many other outdoor adventures. Furthermore, hands on tasks, such as paddle design, wilderness photography, water colours, will empower students to learn through experience and exploration, thus establishing a connection with our Canadian outdoor culture. Students will also study the components of healthy relationships, mental health and personal safety.

Enrichment Experience Fee: \$210.00 for various trips and outdoor experiences.

PAF30 Personal and Fitness Activities - Open

This co-educational course helps students develop a personalized approach to healthy living. There will be emphasis on creating fitness programs that explore various training methods and equipment. Students will examine the factors that affect their own health and the health of individuals as members of the community. They will learn about the importance of healthy eating living an active lifestyle and developing a positive self-image. Throughout this course, students will develop the skills necessary to take charge of and improve their own health, as well as to encourage others to lead healthy lives. Students spend equal time in the classroom and engaging in physical activity as they develop their own healthy active living plans and focus on personal training and individual fitness. Finally, students will learn and explore the various career opportunities in the health and fitness industry.

A voluntary enrichment experience fee will apply for various fitness experiences (TNT Boxing – Achieve Fitness, Boom Fitness).

PAF30X Personal and Fitness Activities, Female - Open

This is a female only course that is geared towards helping young women learn and develop healthy active lifestyles. Instruction will focus on female interests and physiology. There will be an emphasis on creating fitness programs that explore various training methods and equipment. Students will examine the factors that affect their own health and the health of individuals as members of the community. They will learn about the importance of healthy eating, living an active lifestyle, and developing a positive self-image. Throughout this course, students will develop the skills necessary to take charge of and improve their own health, as well as to encourage others to lead healthy lives. Students spend equal time in the classroom and engaging in physical activity as they develop their

own healthy active living plans and focus on personal training and personal fitness. Finally students will learn and explore the various career opportunities in the health and fitness industry.

Voluntary enrichment experience fee: \$65 for various fitness experiences (zumba, downdawg yoga, hot yoga, boom fitness, TNT boxing, belling dancing, personal trainers)

Science

SBI3C Biology, College Preparation

This course focuses on the processes involved in biological systems. Students will learn concepts and theories as they conduct investigations in the areas of cellular biology, microbiology, animal anatomy and physiology, plant structure and physiology, and environmental science. 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.

Prerequisite: Science, Grade 10, Academic or Applied (A minimum mark of 65% in SNC2D is recommended, or a minimum mark of 75% in SNC2P is recommended.)

SBI3U Biology, University Preparation

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. The course is a prerequisite for SBI4U.

Prerequisite: Science, Grade 10, Academic (A minimum mark of 70% is strongly recommended.)

SCH3U Chemistry, University Preparation

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. This course is a prerequisite for SCH4U.

Prerequisite: Science, Grade 10, Academic

Recommended Preparation: MPM2D (A minimum mark of 70% is strongly recommended.)

SPH3U Physics, University Preparation

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.

Prerequisite: Science, Grade 10, Academic

Recommended Preparation: MPM2D (A minimum mark of 70% is strongly recommended)

SVN3M Environmental Science, University/College Preparation

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. Prerequisite: Science, Grade 10, Applied or Academic (A minimum mark of 65% in SNC2D is recommended, or a minimum mark of 75% in SNC2P is recommended.)

SVN3E Environmental Science, Workplace Preparation

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.

Prerequisite: Science, Grade 9: Academic or Applied, or Science, Grade 10 Essential level (LDCC)

Technology

TCJ3C - 1 credit TCJ3C and TCJ3C2 - 2 credits / 2 semesters Construction Technology (Carpentry), College Preparation

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. Note: This course is available to be taken for ONE or TWO credits. If you are taking the two credits be sure to select both TCJ3C and TCJ3C2 codes on your option sheet. Prerequisite: None

Recommended Preparation: TCJ2O

TDJ30 Technological Design and the Environment, Open

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

TDJ3M - 1 credit TDJ3M and TDJ3M2 - 2 credits / 2 semesters Technological Design (Architectural/Engineering Design), University/College Preparation

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. Note: This course is available to be taken for ONE or TWO credits. If you are taking the two credits be sure to select the TDJ3M and TDJ3M2 code on your option sheet. Prerequisite: None Recommended Preparation: TDJ2O

TEJ3E – 1 credit TEJ3E and TEJ3E2 – 2 credits / 2 semesters

Computer Technology, College/Workplace Preparation

This course enables students to develop knowledge and skills related to computer hardware, networks, operating systems, and other software. Students will use utility and application software and learn proper procedures for installing, maintaining, and troubleshooting computer systems and networks. Students will develop an awareness of environmental and societal issues related to the use of computers, and will learn about apprenticeships and other employment opportunities in the field of computer technology that they may choose to pursue after graduation.

Note: this course is available to be taken as a ONE or TWO credits. If you are taking the two credits be sure to select both TEJ3E and TEJ3E2. Prerequisite: None

TEJ3M – 1 credit TEJ3M and TEJ3M2 – 2 credits / 2 semesters

Computer Engineering, University/ College Prep.

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. Note: this course is available to be taken as a ONE or TWO credits. If you are taking the two credits be sure to select both TEJ3M and TEJ3M2.

Prerequisite: None

TFJ3E/3C - Hospitality and Tourism, Workplace Preparation, College Prep

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.

TGJ3M - 1 credit TGJ3M and TGJ3M2 - 2 credits / 2 semesters

Communications Technology, University/College Preparation

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. Note: This course is available to be taken for ONE or TWO credits. If you are taking the two credits be sure to select the TGJ3M and TGJ3M2 code on your option sheet.

A voluntary enhanced programming fee of \$10.00 is recommended.

Prerequisite: None

Recommended Preparation: TGJ2O

TGJ30 Communications Technology: Broadcast and Print Production, Open

This course enables students to develop knowledge and skills in the areas of graphic communication, printing and publishing, audio and video production, and broadcast journalism. Students will work both independently and as part of a production team to design and produce media products in a project-driven environment. Practical projects may include the making of signs, yearbooks, video and/or audio productions, newscasts, and documentaries. Students will also develop an awareness of related environmental and societal issues and explore secondary and postsecondary education and training pathways and career opportunities in the various communications technology fields.

Prerequisite: None

TGP3M - Communications Technology: Photography and Digital Imaging

This course provides an emphasis on Photography and Digital Imaging. Students will develop knowledge and skills as they design and produce media projects in the areas of digital and graphic communications. These areas may include, video, and movie 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. You will be required to purchase an 8 gigabyte Secure Digital card. Access to a digital SLR camera is a benefit although not a course necessity.

Pre-requisite: Grade 10 communications (TGJ2O1) and/or Visual Arts (AVI3M) are strongly recommended to be successful in this course.

THJ3M Green Industries -University/College

THJ3E Green Industries - Workplace

Location: GCVI and surrounding community as required

Grade 10 Construction (TCJ3E1) and/or Technological design (TDJ2O1) and/or Manufacturing (TMJ2O) Technology and/or Transportation Technology (TTJ2O1) are strongly recommended to be successful in this course.

This course enables students to gain experience with a variety of procedures and operations in landscape and environmental design. Students will study complex processes, develop advanced design and maintenance skills, and explore ways of enhancing environmental sustainability. They will also examine social and economic issues related to the green industries, learn about safe and healthy working practices, study industry standards and codes, and explore career opportunities in the various industries. The knowledge and skills acquired in this course will prepare students for a workplace apprenticeship environment or Landscape Architecture at the University of Guelph.

<https://www.uoguelph.ca/sedrd/landscape-architecture>

Students must be able to work independently and submit a teacher referral to be accepted into the course.

CSA certified footwear is mandatory for this course.

TMJ3C - 1 credit TMJ3C and TMJ3C2 - 2 credits / 2 semesters

Manufacturing Engineering Technology (Metal Working), College Preparation

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, 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. Note: This course is available to

be taken for ONE or TWO credits. If you are taking the two credits be sure to select the TMJ3C and TCJ3C2 code on your option sheet.

Prerequisite: None

Recommended Preparation: TMJ2O

TTJ3C - 1 credit TTJ3C and TTJ3C12 - 2 credits / 2 semesters TTJ3CX Transportation Technology (Automotive), College Preparation

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. Note: This course is available to be taken for ONE or TWO credits. If you are taking the two credits be sure to select the TTJ3C and TTJ3C2 code on your option sheet. Select TTJ3CX for the Female only version.

Prerequisite: None Recommended Preparation: TTJ2O

TWJ3E – 1 credit TWJ3E and TWJ3E2 – 2 credits / 2 semesters Custom Woodworking (Furniture), Workplace Preparation

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. Note: This course is available to be taken for ONE or TWO credits. If you are taking the two credits be sure to select the TWJ3E and TWJ3E2 code on your option sheet.

Prerequisite: None