Grade 11 Courses Offered at Adam Scott C.V.I.

The following tables list all of the courses offered in Grade 11 at Adam Scott. Offerings are dependent on sufficient numbers of students selecting a given course and may include combination with another class in the same subject area. Also, please be advised that some courses may include a fee for consumable materials, use of facilities, workbooks, etc.. Wherever possible, we will include this information with the course descriptions. A brief description of each course is included at the end of the table as well as prerequisite charts indicating the necessary prerequisite courses for subjects in each area of study.

It is extremely important that prerequisites are reviewed before choices are made.

The Arts	
Music, University/College Preparation	**AMU 3M1**
Music, Open	**AMU 3O1**
Music, Guitar, Open	**AMG3O1**
Visual Arts, University/College Preparation	**AVI 3M1**
Visual Arts, Open	**AVI 3O1**
Business Studies	
Financial Accounting Principles, University/College Preparation	**BAF 3M1**
Entrepreneurship: The Venture, College Preparation	**BDI 3C1**
Information and Communication Technology: The Digital Environment, Open	**BTA 3O1**
Canadian and World Studies	
Travel and Tourism: A Regional Geographic Perspective, Open	**CGG 3O1**
American History, University Preparation	**CHA 3U1**
World History to the Sixteenth Century, University/College Preparation	**CHW 3M1**
Understanding Canadian Law, University/College Preparation	**CLU 3M1**
Understanding Canadian Law, Workplace Preparation	**CLU 3E1**
Classical and International Languages	
Level 2: International Languages (German),University Preparation *alternate year (0809)	**LWG CU1**
English	
English, University Preparation	**ENG 3U1**
English, College Preparation	**ENG 3C1**
English, Workplace Preparation	**ENG 3E1**

French As a Second Language	
Core French, University Preparation	**FSF 3U1**
French Immersion, University Preparation	**FIF 3UF**
Health and Physical Education	
Healthy Active Living Education, Open	**PPL 3O1**
Mathematics	
Functions, University Preparation	**MCR 3U1**
Functions and Applications, University/College Preparation	**MCF 3M1**
Foundations for College Mathematics, College Preparation	**MBF 3C1**
Mathematics for Work and Everyday Life, Workplace Preparation	**MEL 3E1**
Science	
Biology, University Preparation	**SBI 3U1**
Biology, College Preparation	**SBI 3C1**
Chemistry, University Preparation	**SCH 3U1**
Physics, University Preparation	**SPH 3U1**
Science, University/College Preparation *alternate year (0809)	**SNC 3M1**
Science, Workplace Preparation	**SNC 3E1**
Social Sciences	
Fashion and Creative Expression, Open	**HNC 3O1**
Living Spaces and Shelter, Open *alternate year (0809)	**HLS 3O1**
Parenting, Open *alternate year (0910)	**HPC 3O1**
Introduction to Anthropology, Psychology, and Sociology, University/College Prep	**HSP 3M1**
Introduction to Anthropology, Psychology, and Sociology, University/College Prep. (French Immersion)	**HSP 3MF**
Technological Education	
Communications Technology, University/College Preparation	**TGJ 3M1**
Communications Technology, Workplace Preparation	**TGJ 3E1**
Communications Technology, University/College Preparation (Yearbook - one semester only)	**TGJ3MK**
Communications Technology, University/College Preparation (Yearbook -full year, two credits)	**TGJ3M6**
Construction Technology, Workplace Preparation	**TCJ 3E1**
Construction Technology, Workplace Preparation {Building Maintenance, Pathway Program}	**TCJ3EW**

Technological Design, University/College Preparation	**TDJ 3M1**
Technological Design, Workplace Preparation	**TDJ 3E1**
Transportation Technology, (Automotive)Workplace Preparation	**TTJ 3E1**
Transportation Technology,(Automotive) College Preparation	**TTJ3C1**
Transportation Technology (Small Engines), College Preparation	**TTJ 3C9**
Transportation Technology (Small Engines), Workplace Preparation	**TTJ 3E9**
Transportation Technology, (Race Car) Workplace Preparation {Pathway Program}	**TTJ3EW**
Computer and Information Science, University/College Preparation *alt. yr (0910)	**ICS 3M1**
Computer Engineering Technology, University/College Preparation *alternate year (0809)	**ICE 3M1**
Computer Engineering Technology, Workplace Preparation *alternate year (0809)	**ICE 3E1**
Cooperative Education	
Cooperative Education (Double credit related to in-school subject)	**WRK5O2**
Guidance and Career Education	
Leadership and Peers Support, Open	**GPP 3O1**

COURSE DESCRIPTIONS FOR GRADE 11

Music, Grade 11 (University/College Preparation - AMU3M1)
This course emphasizes the appreciation, analysis, and performance of various kinds of music, including baroque and classical music, popular music, and Canadian and non-Western music. Students will perform technical exercises and appropriate repertoire, complete detailed creative activities, and analyse and evaluate live and recorded performances. They will continue to increase their understanding of the elements of music while developing their technical and imaginative abilities.
Prerequisite: Music, Grade 9 or 10, Open

Music, Grade 11 (Open - AMU3O1)
This course develops students' artistic knowledge and skills through the performance of music and the preparation of music productions. Students will perform appropriate works, particularly works in contemporary popular styles. Independently and in groups, they will also plan, market, and produce music productions, making use of appropriate technology, and will evaluate the results.
Prerequisite: Music, Grade 9 or 10, Open

Music, Guitar, Grade 11 (Open - AMG3O1)
This course emphasizes the performance, appreciation, and analysis of various kinds of music. Students will perform technical exercises and appropriate repertoire, complete detailed creative activities, and analyze and evaluate live and recorded performances. They will continue to increase their understanding of the elements of music using tablature, chord symbols and diagrams, and musical notation while developing their technical and imaginative abilities. All guitars must be acoustic (nylon or steel string). Some guitars (24) are available from the school.
Prerequisite: AMG2O1

Visual Arts, Grade 11 (University/College Preparation - AVI3M1)
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 analyse art works and study aspects of Western art history, as well as Canadian art forms and art forms from various parts of the world. ***Students will be required to pay $20.00 for supplies.***
Prerequisite: Visual Arts, Grade 9 or 10, Open

Visual Arts, Grade 11 (Open - AVI3O1)
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, and will evaluate art works using specific criteria. 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. ***Students will be required to pay $20.00 for supplies.***
Prerequisite: Visual Arts, Grade 9 or 10, Open

Financial Accounting Fundamentals, Grade 11 (University/College Preparation - BAF3M1)
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. ***There will be a charge of $15.00 for a workbook.***
Prerequisite: None

Entrepreneurship: The Venture, Grade 11 (College Preparation - BDI3C1)
This course focuses on ways in which entrepreneurs recognize opportunities, generate ideas, and organize resources to plan successful ventures that enable them to achieve their goals. Students will create a venture plan for a student-run school-based or summer business. Through hands-on experiences, students will have opportunities to develop the values, traits, and skills most often associated with successful entrepreneurs.
Prerequisite: None

Information and Communication Technology: The Digital Environment, Grade 11 (Open - BTA3O1)
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. The majority of this course will be taught using Microsoft Office 2000.
Prerequisite: None

Travel and Tourism: A Regional Geographic Perspective, Grade 11 (Open -CGG3O1)
This course focuses on travel and tourism as a vehicle for the study of selected world regions. Using a variety of geotechnologies and inquiry and communication methods, students will conduct and present case studies that develop their understanding of the unique characteristics of selected world regions; the environmental, cultural, economic, and political factors that influence travel and tourism; and the impact of the travel industry on communities and environments around the world.
Prerequisite: Geography of Canada, Grade 9, Academic or Applied

American History, Grade 11 (University Preparation - CHA3U1)
This course traces the social, economic, and political development of the United States from colonial times to the present. Students will examine issues of diversity, identity, and culture that have influenced the country's social and political formation and will consider the implications of its expansion into a global superpower. Students will use critical-thinking and communication skills to determine causal relationships, evaluate multiple perspectives, and present their own points of view.
Prerequisite: Canadian History in the Twentieth Century, Grade 10, Academic or Applied

World History to the Sixteenth Century, Grade 11 (University/College Preparation - CHW3M1)
This course investigates the history of humanity from earliest times to the sixteenth century. Students will analyse diverse societies from around the world, with an emphasis on the political, cultural, and economic structures and historical forces that have shaped the modern world. They will apply historical inquiry, critical-thinking, and communication skills to evaluate the influence of selected individuals, groups, and innovations and present their conclusions.
Prerequisite: Canadian History in the Twentieth Century, Grade 10, Academic or Applied

Understanding Canadian Law, Grade 11 (University/College Preparation - CLU3M1)
This course explores Canadian law with a focus on legal issues that are relevant to people's everyday lives. Students will investigate fundamental legal concepts and processes to gain a practical understanding of Canada's legal system, including the criminal justice system. Students will use critical-thinking, inquiry, and communication skills to develop informed opinions on legal issues and apply this knowledge in a variety of ways and settings, including case analysis, legal research projects, mock trials, and debates.
Prerequisite: Canadian History in the Twentieth Century, Grade 10, Academic or Applied

Understanding Canadian Law, Grade 11 (Workplace Preparation - CLU3E1)
This course gives students practical information about legal issues that directly affect their lives. Students will examine the need for laws in society, the roots of Canada's legal system, the rights and freedoms that people in Canada enjoy, and the basic elements of criminal law and dispute resolution. Through experiences such as mock trials, debates, and case studies, students will apply inquiry and communication skills to develop and express opinions on legal topics of interest to them.
Prerequisite: Canadian History in the Twentieth Century, Grade 10, Academic or Applied

International Languages (German), Level 2 (University Preparation - LWGCU1) *{alternate year course offered in 2008-09}
This course offers students opportunities to further develop their knowledge of German and to enhance their communication skills. Students will use increasingly sophisticated language in a variety of activities that will enable them to speak and write with clarity and accuracy. Students will also enhance their thinking skills through the critical study of literature, and continue to explore aspects of the culture of countries where the language is spoken through a variety of print and technological resources.
Prerequisite: International Languages (German), Level 1, Academic

English, Grade 11 (University Preparation - ENG3U1)
This course emphasizes the development of literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. Students will analyse 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.
Prerequisite: English, Grade 10, Academic

English, Grade 11 (College Preparation - ENG3C1)
This course emphasizes the development of literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. Students will study the content, form, and style of a variety of informational and graphic texts, as well as literary texts from Canada and other countries, and create oral, written, and media texts in a variety of forms for practical and academic purposes. An important focus will be on using language with precision and clarity. The course is intended to prepare students for the compulsory Grade 12 college preparation course.
Prerequisite: English, Grade 10, Applied

English, Grade 11 (Workplace Preparation - ENG3E1)
This course emphasizes the development of literacy, communication, and critical and creative thinking skills necessary for success in the workplace and in daily life. Students will study the content, form, and style of a variety of contemporary informational, graphic, and literary texts; and create oral, written, and media texts in a variety of forms for practical purposes. An important focus will be on using language clearly and accurately in a variety of formal and informal contexts. The course is intended to prepare students for the compulsory Grade 12 workplace preparation course.
Prerequisite: English, Grade 10 Applied or Locally Developed

Core French, Grade 11 (University Preparation - FSF3U1)
This course draws on a variety of themes to promote extensive development of reading and writing skills and to reinforce oral communication skills. Students will gain a greater understanding of French-speaking cultures in Canada and around the world through their reading of a variety of materials, including a short novel or a play. Students will produce various written assignments, including a formal essay. The use of correct grammar and appropriate language conventions in both spoken and written French will be emphasized throughout the course.
Every student will be required to purchase a workbook($10.00) to accompany the text.
Prerequisite: Core French, Grade 10, Academic

French Immersion, Grade 11 (University Preparation - FIF3UF)
This course develops knowledge and language skills through the study of Francophone literature and culture from around the world. Students will study novels, plays, poems, short stories, films, and non-fiction works and produce written assignments in a variety of forms, including critiques and précis. They will also write a formal research essay. The use of correct grammar and appropriate language conventions in both spoken and written French will be emphasized throughout the course.
Prerequisite: French Immersion, Grade 10, Academic

Healthy Active Living Education, Grade 11 (Open - PPL3O1)
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 practise goal-setting, decision-making, coping, social, and interpersonal skills. Students will also study the components of healthy relationships, reproductive health, mental health, and personal safety. ***There will be a small fee for the use of community facilities.***
Prerequisite: None

Functions, Grade 11 (University Preparation - MCR3U1)
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; investigate inverse functions and develop facility in determining equivalent algebraic expressions. Students will reason mathematically and communicate their thinking as they solve multi-step problems.
Prerequisite: Principles of Mathematics, Grade 10, Academic

Functions and Applications, Grade 11 (University/College Preparation - MCF3M1)
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 applications. Students will reason mathematically and communicate their thinking as they solve multi-step problems.
Prerequisite: Principles of Mathematics, Grade 10, Academic or Foundations of Mathematics, Grade 10, Applied

Foundations for College Mathematics, Grade 11 (College Preparation - MBF3C1)
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; develop their ability to reason by collecting, analysing, and evaluating data involving one variable; connect probability and statistics; and solve problems in geometry and trigonometry. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.
Prerequisite: Foundations of Mathematics, Grade 10, Applied

Mathematics for Work and Everyday Life, Grade 11 (Workplace Preparation - MEL3E1)
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.
Prerequisite: Principles of Mathematics, Grade 9, Academic, or Foundations of Mathematics, Grade 9 Applied, or Mathematics, Grade 10, Locally Developed

Biology, Grade 11 (University Preparation - SBI3U1)
This course furthers students' understanding of the processes involved in biological systems. Students will study cellular functions, genetic continuity, internal systems and regulation, the diversity of living things, and the anatomy, growth, and functions of plants. The course focuses on the theoretical aspects of the topics under study, and helps students refine skills related to scientific investigation.
Prerequisite: Science, Grade 10, Academic

Biology, Grade 11 (College Preparation - SBI3C1)
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 skills needed for further study in the various branches of life sciences and related fields.
Prerequisite: Science, Grade 10, Academic or Applied

Chemistry, Grade 11 (University Preparation - SCH3U1)
This course focuses on the concepts and theories that form the basis of modern chemistry. Students will study the behaviours of solids, liquids, gases, and solutions; investigate changes and relationships in chemical systems; and explore how chemistry is used in developing new products and processes that affect our lives and our environment. Emphasis will also be placed on the importance of chemistry in other branches of science.
Prerequisite: Science, Grade 10, Academic

Physics, Grade 11 (University Preparation - SPH3U1)
This course develops students' understanding of the basic concepts of physics. Students will study the laws of dynamics and explore different kinds of forces, the quantification and forms of energy (mechanical, sound, light, thermal, and electrical), and the way energy is transformed and transmitted. They will develop scientific-inquiry skills as they verify accepted laws and solve both assigned problems and those emerging from their investigations. Students will also analyze 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

Science, Grade 11 (University/College Preparation - SNC3M1) *{alternate year course offered in 2008-09}
This course enables students, including those who do not intend to pursue science-related programs at the post secondary level, to increase their understanding of science and its technological applications. Students will explore a range of topics, including the safe use of everyday chemicals; the science of nutrition and body function; waste management; the application of scientific principles in space; and technologies in everyday life. Emphasis will be placed on the role of science and technology in daily life and in relation to social and environmental issues. Enrichment opportunities will be available.
Prerequisite: Science, Grade 10, Academic or Applied

Science, Grade 11 (Workplace Preparation - SNC3E1)
This course provides students with the science-related knowledge and skills they need to help them make informed decisions in the workplace and in their personal lives. Students will explore a range of topics, including materials and safety; electrical circuits; micro-organisms; the human immune system and defenses against disease; and the impact of technology on the environment. Emphasis is placed on relating these topics directly to students' experiences both in the world of work and in daily life.
Prerequisite: Science, Grade 9, Academic or Applied or Science, Grade 10, Locally Developed

Fashion and Creative Expression, Grade 11 (Open - HNC3O1)
This introductory hands on course is suitable for any student with a personal interest in fashion or a desire to pursue a fashion career and is the recommended prerequisite for the grade 12 course, The Fashion Industry. This course explores what clothing communicates about the wearer and how it becomes a creative and entrepreneurial outlet through the design and production processes. Students will learn, through practical experiences, about the nature of fashion design; the characteristics of fibres and fabrics; the construction, production, and marketing of clothing; and how to plan and care for a wardrobe that is appropriate for an individual's appearance, activities, employment, and lifestyle. Students will develop research skills as they explore the evolution of fashion and its relationship to society, culture, and individual psychology. ***Students will be required to purchase material and supplies.***
Prerequisite: None

Living Spaces and Shelter, Grade 11 (Open - HLS3O1) {*alternate year course, offered in 2008-09}
Students taking this housing course will develop a housing portfolio including floor plans, furniture layouts and decorating schemes with available computer technology. This course analyses how different types of living spaces and forms of shelter meet people's physical, social, emotional, and cultural needs and reflect society's values, established patterns of living, and economic and technological developments. Students will learn how to make practical decisions about where to live and how to create functional and pleasing environments, and will explore occupational opportunities related to housing and design. They will also learn skills used in researching and investigating living accommodations and housing.
Prerequisite: None

Parenting, Grade 11 (Open - HPC3O1) {*alternate year course, offered in 2009-10}
The practical experiences in this course include using an infant simulator and organizing and managing a play school. This course focuses on the skills and knowledge needed to promote the positive and healthy nurturing of children, with particular emphasis on the critical importance of the early years to human development. Students will learn how to meet the developmental needs of young children, communicate and discipline effectively, and guide early behaviour. They will have practical experiences with infants, toddlers, and preschoolers, and will learn skills in researching and investigating questions relating to parenting.
Prerequisite: None

Introduction to Anthropology, Psychology, and Sociology, Grade 11 (University/College Preparation - HSP3M1)
This course will investigate issues such as discrimination, racism, cults, and abnormal psychology. This course introduces the theories, questions, and issues that are the major concerns of anthropology, psychology, and sociology. Students will develop an understanding of the way social scientists approach the topics they study and the research methods they employ. Students will be given opportunities to explore theories from a variety of perspectives

and to become familiar with current thinking on a range of issues that have captured the interest of classical and contemporary social scientists in the three disciplines.
Prerequisite: None

Introduction to Anthropology, Psychology, and Sociology, Grade 11 (University/College Preparation - HSP3MF) (French Immersion)
The content of this course is the same as that of the Introduction to Anthropology, Psychology, and Sociology, Grade 11, University/College Preparation, but the instruction will occur in French.
Prerequisite: None except being in the French Immersion Program

Communications Technology, Grade 11 (University/College Preparation - TGJ3M1) *Please see end of this section for yearbook and multiple credit option)
This course examines communications systems and design and production processes in one or more of the areas of electronic, live, and graphic communications. Students will develop knowledge and skills relating to the assembly, maintenance, and repair of the basic and more complex components of a range of communications systems. Students will also study industry standards and regulations and health and safety issues, and will explore careers, the importance of lifelong learning, and the impact of communications technology on society and the environment. Projects include Desktop Publishing , Digital Imaging using and Webpage Design using Corel Draw, PhotoShop, Macromedia and Black & White Photography; 3D animation using 3D Studio Max; Video Production using Adobe Premiere. ***Some technology courses require a fee for materials used to produce student projects.***
Prerequisite: None

Communications Technology, Grade 11 (Workplace Preparation - TGJ3E1) *Please see end of this section for yearbook and multiple credit option)
This course examines communications systems and design and production processes in one or more of the areas of electronic, live, and graphic communications. Students will learn how basic communication systems function and will develop the knowledge and skills needed to assemble, repair, maintain, and test various systems. Students will also study industry standards and regulations and health and safety issues, and will explore careers, the importance of lifelong learning, and the impact of communications technology on society and the environment. Projects include Desktop Publishing, Digital Imaging and Webpage Design using Corel Draw, PhotoShop, Macromedia and Black & White Photography; 3D animation using 3D Studio Max; Video Production using Adobe Premiere. ***Some technology courses require a fee for materials used to produce student projects.***
Prerequisite: None

Construction Technology, Grade 11 (Workplace Preparation - TCJ3E1)
This course focuses on residential, commercial, industrial, and/or recreational construction. Students will learn about the tools, materials, equipment, and methods used in the light construction industry; structural analysis and design; presentation and working drawings; and mechanical systems. They will also estimate materials and labour costs, and study industry standards and building codes, health and safety issues, energy conservation, careers, and the impact of construction technology on society and the environment. An emphasis will be placed on the design and completion of wood working projects. ***Some technology courses require a fee for materials used to produce student projects.***
Prerequisite: None

Construction Technology, Grade 11 (Workplace Preparation - TCJ3EW) - Building Maintenance {Pathway Program}
This single credit course covers the expectations for the Grade 11 Workplace Construction Technology course and will provide practice in the various skills associated with home maintenance and construction.
Prerequisite: None

Technological Design, Grade 11 (University/College Preparation - TDJ3M1)
This course provides students with opportunities to apply the principles of technological design to challenges in communications, manufacturing, electronics, transportation, architecture, industrial and consumer products, health and safety equipment, and environmental services. Students will identify user needs, estimate labour and material costs, analyze material characteristics, and illustrate design solutions, using traditional and computer-based methods. They will also acquire the basic design skills required for postsecondary studies in engineering, manufacturing, architecture, and construction. Students will use CAD and CAM programs to complete their projects. ***Some technology courses require a fee for materials used to produce student projects.***
Prerequisite: None

Technological Design, Grade 11 (Workplace Preparation - TDJ3E1)
This course provides students with opportunities to apply the principles of basic design to technological challenges in industry, engineering, architecture, manufacturing, and graphics. Students will develop problem-solving and design skills through the use of technical drawings and illustrations, model building, testing, and marketing. They will also become aware of consumer, business, and environmental issues in the creation and marketing of products or services, and the educational requirements of design-related careers. Students will use CAD and CAM programs to complete their projects. ***Some technology courses require a fee for materials used to produce student projects.***
Prerequisite: None

Transportation Technology - Automotive Focus, Grade 11 (Workplace Preparation - TTJ3E1) ** ***Please see note at the end of this section regarding multiple credit opportunities.***
This course examines the various types of land, air, and/or marine vehicles and vehicle systems found within the transportation sector. Students will acquire identification, troubleshooting, repairing, and testing skills that meet industry standards and government regulations. In addition to developing employability and technical skills, they will explore the broad range of career opportunities within this sector, and will examine the impact of the transportation sector on people, society, and the environment. Students will learn how to work on customer cars and are encouraged to bring in their own vehicles to work on. This course is strongly recommended for students who are interested in an automotive apprenticeship. ***Some technology courses require a fee for materials used to produce student projects.***
Prerequisite: None

Transportation Technology - Automotive Focus, Grade 11 (College Preparation - TTJ3C1) * ***Please see note at the end of this section regarding multiple credit opportunities.***
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 analyze the impact of transportation technology on society and the environment. Students will concentrate on the repair of automobiles. ***Some technology courses require a fee for materials used to produce student projects.***
Prerequisite: None

Transportation Technology, Grade 11 (Workplace Preparation - TTJ3EW) - Race Car {Pathway Program}
**** Please see note at the end of this section regarding multiple credit opportunities.***
This is a single credit, Pathways for Success course which will focus on the design and fabrication of a variety of race cars and special interest vehicles, as well as the skills needed for vehicle set up, operation and repair. Students will be selected based upon specific needs according to the Pathways mandate.
Prerequisite: None

Transportation Technology, Grade 11 (College Preparation - TTJ3C9 (Small Engines)) ** ***Please see note at the end of this section regarding multiple credit opportunities.***
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 analyze the impact of transportation technology on society and the environment. Students will concentrate on the repair of marine and small engine vehicles. ***Some technology courses require a fee for materials used to produce student projects.***
Prerequisite: None

Transportation Technology, Grade 11 (Workplace Preparation - TTJ3E9 (Small Engines)) ** ***Please see note at the end of this section regarding multiple credit opportunities.***
This course examines the various types of land, air, and/or marine vehicles and vehicle systems found within the transportation sector. Students will acquire identification, troubleshooting, repairing, and testing skills that meet industry standards and government regulations. In addition to developing employability and technical skills, they will explore the broad range of career opportunities within this sector, and will examine the impact of the transportation sector on people, society, and the environment. Students will concentrate on the repair of marine and small engine vehicles. ***Some technology courses require a fee for materials used to produce student projects.***
Prerequisite: None

Computer and Information Science, Grade 11 (University/College Preparation - ICS3M1) *{alternate year course offered in 2009-10}
This course helps students examine computer science concepts. Students will outline stages in software development,

define standard control and data structures, identify on- and off-line resources, explain the functions of basic computer components, and develop programming and problem-solving skills by using operating systems and implementing defined practices. As well as identifying careers in computer science, students will develop an understanding of the ethical use of computers and the impact of emergent technologies on society.
Prerequisite: None

Computer Engineering, Grade 11 (University/College Preparation - ICE3M1) *{alternate year course offered in 2008-09}
This course helps students understand how computer hardware and software are used to solve computer-related problems from an engineering perspective. Students will explore ways of connecting computers, interfaces, and peripherals using their knowledge of logic gates, computer components, peripherals, programming, networks, and operating systems. Students will also construct systems that use computer programs to interact with hardware, install and configure key computer hardware and software components, develop an understanding of the ethical use of computers, and explore careers in computer engineering. Curriculum form the CISCO CCNA Discovery course will be taught in order to build and repair local area networks as well as computer systems. ***Some technology courses require a fee for materials used to produce student projects.***
Prerequisite: None

Computer Engineering, Grade 11 (Workplace Preparation - ICE3E1) *{alternate year course offered in 2008-09}
This course helps students develop a practical understanding of hardware and software operations, computer networks, and operating systems. Students will learn to use utility and application software and to install, maintain, and troubleshoot computer systems and networks following proper maintenance and repair procedures. In addition to developing an understanding of the ethical use of computers, students will identify engineering career opportunities and the skill sets required for the workplace, including good customer service practices. Curriculum form the CISCO CCNA Discovery course will be taught in order to build and repair local area networks as well as computer systems.
Some technology courses require a fee for materials used to produce student projects.
Prerequisite: None

Leadership and Peer Support, Grade 11 (Open GPP 3O1)
This course prepares students to act in leadership and peer support roles. They will design and implement a plan for contributing to their school and/or community; develop skills in communication, interpersonal relations, teamwork, and conflict management; and apply those skills in leadership and/or peer support roles – for example, as a student council member or a peer tutor. Students will examine group dynamics and learn the value of diversity within groups and communities. Students choosing this course will be peer helpers within a junior classroom and will co-plan their duties, responsibilities and assessment and evaluation with the classroom teacher with whom they are assigned.
Students may only take one credit in Peer Helping. Students in grade 12 who have not yet taken this credit and are interested in Peer Helping are encouraged to take this course even though it is a grade 11 course.
Prerequisite: Career Studies, Grade 10, Open

Multiple Credit Opportunities

Co-operative Education, Grade 11 (WRK5O2- 2 credits)
Students may take a double credit in Cooperative Education as outlined on page 13 of this booklet**.**
Prerequisite: Career Studies, Grade 10, Open

Technology Packages
The Ministry policy document for Technological Information states: "courses may be developed to emphasize a particular area, but not to the exclusion of other areas within the subject." Students must be given the opportunity to achieve all of the expectations.

However, students may earn **more than one credit** for a course based on a set of course expectations when it is part of a program leading to apprenticeship or certification, or it is part of a school - work transition program. Additional time (and credits) can be allotted in 55 hour increments, up to a maximum of 330 hours (3 credits), in order to provide for practice and refinement of skills. Ministry policy clearly states that, "the number of additional credits and the nature of the assignments to be completed must be established before the start of the course".

Schools are allowed to organize their multiple technology programs that have the same course expectations of the individual courses but a different focus by offering the courses in packages. The Technology Department at Adam Scott has developed two sets of multiple credit packages, based on the same set of individual courses but a different focus. We offer Technology Packages in Transportation and Communications in the following manner:

Communications Technology (Yearbook)
The yearbook course covers the expectations for the Grade 11 and 12 University/College Communications Technology Courses and will provide practice and refinement of skills through the use of Desktop Publishing, Digital Imaging and Journalism to produce the school's Yearbook and Video Yearbook.. These credits can be taken in grade 11 and/or 12.

There are a number of ways in which these credits may be obtained:
1) Students may opt into this course for **one semester as TGJ3MK or TGJ4MK (one credit)**
2) Students may take this course for the **full year as TGJ3M6(two credits) or TGJ4M6 (two credits)**
3) Students may take a three credit package which includes the **full year yearbook course and an additional Communication Technology course such as TGJ3M1 and TGJ3M6 or TGJ4M1 and TGJ4M6**

Transportation Technology (Automotive or Race Car Program or Small Engines Focus)
These courses cover the expectations for the grade 11 and 12 Workplace Transportation Technology Courses and will provide practice and refinement of skills in the specified field(s) of focus through repairs on individual personal vehicles as well as vehicles brought into the shops by "customers".

There are a number of ways that these credits may be obtained:
1) Students may opt into any of these courses for **single credits in grade 11 and/or 12 as TTJ3E1, TTJ3EW** or **TTJ3E9, or TTJ3C1** or **TTJ3C9 or TTJ4E1, TTJ4EW,** or **TTJ4E9, or TTJ4C1** or **TTJ4C9.**
2) Students may opt to take combinations of these above courses to a **maximum of three credits for each separate course code.**

In any cases of multiple credits, the final mark will be calculated based on the average of the individual credits and no more than three credits can be "attached" to one code.

***Please pay particular attention to the codes to ensure that you are signing up for the courses that you want and make an appointment with a Guidance Counsellor if you are not sure or have questions.**

Grade 12 Courses Offered at Adam Scott C.V.I.

The following tables list all of the courses offered in Grade 12 at Adam Scott. Offerings are dependent on sufficient numbers of students selecting a given course and may include combination with another class in the same subject area. Also, please be advised that some courses may include a fee for consumable materials, use of facilities, workbooks, etc.. Wherever possible, we will include this information with the course descriptions. A brief description of each course is included at the end of the table as well as prerequisite charts indicating the necessary prerequisite courses for subjects in each area of study.

It is extremely important that prerequisites are reviewed before choices are made.

The Arts	
Dramatic Arts, University/College Preparation	**ADA 4M1**
Dramatic Arts, Open	**ADA 4O1**
Music, University/College Preparation	**AMU 4M1**
Visual Arts, University/College Preparation	**AVI 4M1**
Business Studies	
Information and Communication Technology: Multimedia Solutions, College Prep.	**BTX 4C1**

Canadian and World Studies	
Canadian and World Issues: A Geographical Analysis, University Preparation	**CGW 4U1**
Canadian History: Identity and Culture, University Prep. (alternate year -offered 0910)	**CHI 4U1**
World History: The West and the World, University Preparation	**CHY 4U1**
World History: The West and the World, College preparation	**CHY 4C1**
Canadian and International Law, University Preparation	**CLN 4U1**
Classical Civilization, University Preparation (alternate year -offered 0809)	**LVV4U1**
English	
English, University Preparation	**ENG 4U1**
English, College Preparation	**ENG 4C1**
English, Workplace Preparation	**ENG 4E1**
The Writer's Craft, University Preparation	**EWC 4U1**
The Writer's Craft. College Preparation	**EWC 4C1**
Studies in Literature, University Preparation (alternate year - offered 0809)	**ETS 4U1**
Studies in Literature, College Preparation (alternate year - offered 0809)	**ETS 4C1**
Ontario Secondary School Literacy Course, Open	**OLC 4OL**
French As a Second Language	
Core French, University Preparation	**FSF 4U1**
French Immersion, University Preparation	**FIF 4UF**
Health and Physical Education	
Healthy Active Living Education, Open	**PPL 4O1**
Exercise Science, University Preparation	**PSE 4U1**
Recreation and Fitness Leadership, College Preparation	**PLF4C1**
Guidance and Career Education	
Navigating the Workplace, Open (1 credit course + 1 credit co-op) **{Pathway Program} - students will be selected for this program based on specific needs**	**GLN4OW + GLN4OX**

Mathematics	
Advanced Functions, University Preparation	**MHF 4U1**
Calculus and Vectors, University Preparation	**MCV 4U1**
Mathematics of Data Management, University Preparation	**MDM4U1**
Foundations for College Mathematics, College Preparation	**MAP 4C1**
Mathematics for Work and Everyday Life, Workplace Preparation	**MEL 4E1**
Science	
Biology, University Preparation	**SBI 4U1**
Biology, University Preparation - Advance Placement	**SBI4UA**
Chemistry, University Preparation	**SCH 4U1**
Chemistry, College Preparation	**SCH 4C1**
Physics, University Preparation	**SPH 4U1**
Physics, College Preparation *alternate year (offered 0809)	**SPH 4C1**
Science, University/College Preparation *alternate year (offered 0910)	**SNC 4M1**
Science, Workplace Preparation	**SNC 4E1**
Social Sciences	
Individuals and Families in a Diverse Society, University/College Preparation	**HHS 4M1**
The Fashion Industry, Open	**HNB 4O1**
Technological Education	
Communications Technology, University/College Preparation	**TGJ4M1**
Communications Technology, Workplace Preparation	**TGJ4E1**
Communications Technology, University/College Preparation (Yearbook - one semester only)	**TGJ4MK**
Communications Technology, University/College Preparation (Yearbook -full year, two credits)	**TGJ4M6**
Construction Technology, Workplace Preparation	**TCJ 4E1**
Technological Design, University/College Preparation	**TDJ 4M1**
Technological Design, Workplace Preparation	**TDJ 4E1**
Transportation Technology(Small Engines), College Preparation	**TTJ4C9**
Transportation Technology(Small Engines), Workplace Preparation	**TTJ 4E9**
Transportation Technology (Automotive), Workplace Prep.	**TTJ4E1**
Transportation Technology (Automotive), College Prep.	**TTJ 4C1**
Transportation Technology, (Race Car) Workplace Preparation {Pathway Program}	**TTJ4EW**
Computer and Information Science, University/College Preparation	**ICS 4M1**
Computer Engineering Technology, University/College Prep. *alternate year (offered 0910)	**ICE 4M1**
Computer Engineering Technology, Workplace Preparation *alternate year (offered 0910)	**ICE 4E1**

Cooperative Education	
Cooperative Education (Single credit related to in-school subject to be combined with double credit for a triple)	**WRK5O1**
Cooperative Education (Double credit related to in-school subject)	**WRK5O2**
Cooperative Education (Second Double credit related to in-school subject, two credits each semester)	**WRK5OD**
Cooperative Education (Four credit (full day) related to in-school subject)	**WRK5O4**
Cooperative Education (Militia Coop)	**WRK5OM**
Cooperative Education (O.Y.A.P.)	**WRK5OY**

COURSE DESCRIPTIONS FOR GRADE 12

Dramatic Arts, Grade 12 (University/College Preparation - ADA4M1)
This course requires students to experiment with forms and conventions in dramatic literature, and to create, script, and present original and adapted works. Students will do research on dramatic forms, conventions, themes, and theories of acting and directing from different historical periods, and apply their knowledge of these in interpreting dramatic literature, including Canadian works and works from various cultures in the late twentieth century. Students will also examine the significance of dramatic arts in various cultures. ***There may be a fee charged for entrance to a drama festival or for guest speakers.***
Prerequisite: Dramatic Arts, Grade 10, Open

Dramatic Arts, Grade 12 (Open - ADA4O1)
This course requires students to put together and present a variety of dramatic works. Students will present works by Canadian and other playwrights, and develop original material based on personal narratives, local community issues, or global concerns. They will have hands-on experiences with various aspects of dramatic arts productions, including performance, set design, lighting, costumes, stage and technical management, administration, and marketing. Students will also explore possible careers related to the dramatic arts. ***There may be a fee charged for entrance to a drama festival or for guest speakers.***
Prerequisite: Dramatic Arts, Grade 10, Open

Music, Grade 12 (University/College Preparation - AMU4M1)
This course emphasizes the appreciation, analysis, and performance of music from the romantic period and from the twentieth century, including jazz, popular music, art music, and Canadian and non-Western music. Students will concentrate on developing interpretive skills and the ability to work independently. They will also complete complex creative projects in which they make use of new technologies.
Prerequisite: Music, Grade 11, University/College Preparation or Open

Visual Arts, Grade 12 (University/College Preparation - AVI4M1)
This course focuses on the refinement of students' skills and knowledge in visual arts. Students will analyse art forms; use theories of art in analysing and producing art; and increase their understanding of stylistic changes in Western art, Canadian (including Native Canadian) art, and art forms from various parts of the world. Students will produce a body of work demonstrating a personal approach. ***Students will be required to pay $50.00 for supplies.***
Prerequisite: Visual Arts, Grade 11, University/College Preparation or Open

Information and Communication Technology: Multimedia Solutions, Grade 12 (College Prep. - BTX4C1)
This course provides students with the opportunity to apply their information and communication technology skills while working in a team environment. Through a project-based approach, students will have opportunities to integrate common business software applications and apply multimedia techniques. Students will further develop their understanding of electronic business and e-commerce environments. The skills acquired in this course will prepare students for success in postsecondary studies and in their future careers.
Prerequisite: Information and Communication Technology: The Digital Environment, Grade 11, Open

Canadian and World Issues: A Geographic Analysis, Grade 12 (University Preparation - CGW4U1)
This course examines the global challenges of creating a sustainable and equitable future, focusing on current issues that illustrate these challenges. Students will investigate a range of topics, including cultural, economic, and geopolitical relationships, regional disparities in the ability to meet basic human needs, and protection of the natural environment. Students will use geotechnologies and skills of geographic inquiry and analysis to develop and communicate balanced opinions about the complex issues facing Canada and a world that is interdependent and constantly changing.
Prerequisite: Any university or university/college preparation course in Canadian and world studies, English, or social sciences and humanities.

Canadian History: Identity, and Culture, Grade 12 (University Preparation - CHI4U1) *{alternate year course 2009-10}
This course explores the challenges associated with the formation of a Canadian national identity. Students will examine the social, political, and economic forces that have shaped Canada from the pre-contact period to the present and will investigate the historical roots of contemporary issues from a variety of perspectives. Students will use critical-thinking and communication skills to consider events and ideas in historical context, debate issues of culture and identity, and present their own views.
Prerequisite: Any university or university/college preparation course in Canadian and world studies, English, or social sciences and humanities.

World History: The West and the World, Grade 12 (University Preparation - CHY4U1)
This course investigates the major trends in Western civilization and world history from the sixteenth century to the present. Students will learn about the interaction between the emerging West and other regions of the world and about the development of modern social, political, and economic systems. They will use critical-thinking and communication skills to investigate the historical roots of contemporary issues and present their conclusions.
Prerequisite: Any university or university/college preparation course in Canadian and world studies, English, or social sciences and humanities.

World History: The West and the World, Grade 12 (College Preparation - CHY4C1)
This course explores the history of the world since the sixteenth century, emphasizing the interaction between the emerging West and other regions of the world. Students will learn about a variety of economic, social, and political systems and the changes they have undergone over time. Students will apply their developing skills of historical inquiry to understand and communicate ideas about the forces that have formed our modern world.
Prerequisite: Any university or university/college, or college preparation course in Canadian and world studies, English, or social sciences and humanities.

Canadian and International Law, Grade 12 (University Preparation - CLN4U1)
This course examines elements of Canadian and international law in social, political, and global contexts. Students will study the historical and philosophical sources of law and the principles and practices of international law and will learn to relate them to issues in Canadian society and the wider world. Students will use critical-thinking and communication skills to analyse legal issues, conduct independent research, and present the results of their inquiries in a variety of ways.
Prerequisite: Any university or university/college preparation course in Canadian and world studies, English, or social sciences and humanities.

Classical Civilization, Grade12 (University Preparation - LVV4U1) *{alternate year course 2008-09}
This course allows students to explore the beliefs and achievements of the classical world, which have shaped western thought and civilization. Students will investigate such aspects of classical culture as its mythology, art, literature, and philosophy, as well as elements of Ancient Greek and Latin, through a variety of activities such as dramatizations, audio-visual presentations, and discussions. By reading classical authors in English and examining archeological evidence, students will enhance both their communication skills and their ability to think critically and creatively. This new course will also allow students of CHW3M1 to continue their interest in classical Greek and Roman cultures.
Prerequisite: English, Grade 10 Academic or Applied

English, Grade 12 (University Preparation - ENG4U1)
This course emphasizes the consolidation of the literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. Students will analyse a range of challenging literary texts from various periods, countries, and cultures; interpret and evaluate informational and graphic texts; and create oral, written, and media texts in a variety of forms. An important focus will be on using academic language coherently and confidently, selecting the reading strategies best suited to particular texts and particular purposes for reading, and developing greater control in writing. The course is intended to prepare students for university, college, or the workplace.
Prerequisite: English, Grade 11, University Preparation

English, Grade 12 (College Preparation - ENG4C1)
This course emphasizes the consolidation of literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life Students will analyse a variety of informational and graphic texts, as well as literary texts from various countries and cultures, and create oral, written, and media texts in a variety of forms for practical and academic purposes. An important focus will be on using language with precision and clarity and developing greater control in writing. The course is intended to prepare students for college or the workplace.
Prerequisite: English, Grade 11, College Preparation

English, Grade 12 (Workplace Preparation - ENG4E1)
This course emphasizes the consolidation of literacy, communication, and critical and creative thinking skills necessary for success in the workplace and in daily life. Students will analyse informational, graphic, and literary texts and create oral, written, and media texts in a variety of forms for workplace-related and practical purposes. An important focus will be on using language accurately and organizing ideas and information coherently. The course is intended to prepare students for the workplace and active citizenship
Prerequisite: English, Grade 11, Workplace Preparation

(Optional English Courses)
The Writer's Craft, Grade 12 (University Preparation - EWC4U1)
This course emphasizes knowledge and skills related to the craft of writing. Students will
analyse models of effective writing; use a workshop approach to produce a range of works; identify and use techniques required for specialized forms of writing; and identify effective ways to improve the quality of their writing. They will also complete a major paper as part of a creative or analytical independent study project and investigate opportunities for publication and for writing careers.
Prerequisite: English, Grade 11, University Preparation

The Writer's Craft, Grade 12 (College Preparation - EWC4C1)
This course emphasizes knowledge and skills related to the craft of writing. Students will
investigate models of effective writing; use a workshop approach to write a variety of works; and make considered decisions for improving the quality of their writing. They will also complete a creative or analytical independent study project and investigate opportunities for publication and for writing careers.
Prerequisite: English, Grade 11, College Preparation

Studies in Literature, Grade 12 (University Preparation - ETS4U1) *{alternate year course 2008-09}
This course is for students with a special interest in literature and literary criticism. The course may focus on themes, genres, time periods, or countries. Students will analyse a range of forms and stylistic elements of literary texts and respond personally, critically, and creatively to them. They will also assess critical interpretations, write analytical essays, and complete an independent study project.
Prerequisite: English, Grade 11, University Preparation

Studies in Literature, Grade 12 (College Preparation - ETS4C1) *{alternate year course 2008-09}
This course is for students with a special interest in literature. The course may focus on
themes, genres, time periods, or countries. Students will study a variety of forms and stylistic elements of literary texts and respond personally, critically, and creatively to them. They will also investigate critical interpretations and complete an independent study project.
Prerequisite: English, Grade 11, College Preparation

Ontario Secondary School Literacy Course, Grade 12 (Open - OLC4OL)
This course is designed to help students acquire and demonstrate the cross-curricular literacy skills that are evaluated by the Ontario School Literacy Test (OSSLT). Students who complete the course successfully will meet the provincial literacy requirement for graduation. Students will read a variety of informational, narrative, and graphic texts and will produce a variety of forms of writing, including,, summaries, information paragraphs, opinion pieces, and news reports. Students will also maintain and manage a portfolio containing a record of their reading experiences and samples of their writing.
Eligibility requirement: Students who have been eligible to write the OSSLT at least twice and who have been unsuccessful at least once, or are recommended by the principal are eligible to take the course.

Core French, Grade 12 (University Preparation - FSF4U1)
This course draws on a variety of themes to promote extensive development of French-language skills. Students will consolidate their oral skills as they discuss literature, culture, and current issues. They will read a variety of texts and will write a formal essay. The use of correct grammar and appropriate language conventions in both spoken and written French will be emphasized throughout the course. ***Every student will be required to purchase a workbook ($10.00) to accompany the text.*** **Prerequisite: Core French, Grade 11, University Preparation**

French Immersion, Grade 12 (University Preparation - FIF4U1)
This course provides for extensive study of French literature and culture from the Middle Ages to the present. Students will study novels, plays, poems, films, and non-fiction works produced in various historical periods, and will write a formal research paper. The use of correct grammar and appropriate language conventions in both spoken and written French will be emphasized throughout the course.
Prerequisite: French Immersion, Grade 11, University Preparation

Navigating the Workplace, Grade 12, (Open GLN4OW) {Pathways - 2 credit program}
This course provides students with opportunities to develop the workplace skills and work habits required for success in all types of workplaces. Students will explore occupations and careers of interest through participation in real workplace experiences. They will make plans for continued learning and work, work with others to design learning experiences, and investigate the resources and support required to make a smooth transition to their postsecondary destination.
Prerequisite: None
Additional Information: This course has been specifically written to meet the needs of students who:
1) fit the profile of the senior students considered at risk in our secondary schools.
2) would benefit from learning the skills required for success in the workplace and demonstrating achievement of those skills both inside and outside of the classroom.
3) would benefit from having a related course for a cooperative education program in grade 12.
*** A list of possible candidates for this program will be developed in consultation with current grade 10 and 11 teachers, and the Student Success Team. Students and parents will then be contacted to discuss specific details and possibilities.**

Healthy Active Living Education, Grade 12 (Open - PPL4O1)
This course focuses on the development of a personalized approach to healthy active living through participation in a variety of sports and recreational activities that have the potential to engage students' interest throughout their lives. Students will develop and implement personal physical fitness plans. In addition, they will be given opportunities to refine their decision-making, conflict-resolution, and interpersonal skills, with a view to enhancing their mental health and their relationships with others. In this program students can choose from activities offered at Scott and at community facilities. ***Activities chosen off campus will involve a cost.***
Prerequisite: None

Recreation and Fitness Leadership, College Preparation (Open - PLF4C1)
This course focuses on the development of leadership and coordination skills related to recreational activities. Students will acquire the knowledge and skills to plan, organize and implement recreational events. They will also learn how to promote the value of physical fitness, personal well-being, and personal safety to others through mentoring. The course will prepare students for college programs in recreational, leadership and fitness programs. The course expectations will be met using outdoor activities as the delivery mode as outlined on the Outdoor Adventure information sheet. ***There will be a fee of approximately $325.00 for the use of community facilities, equipment rental and other individual expenses.***
Prerequisite: Any Grade 11 or 12 open course in health and physical education.

Exercise Science, Grade 12 (University Preparation - PSE4U1)
This course focuses on the study of human movement and of systems, factors, and principles involved in human development. Students will learn about the effects of physical activity on health and performance, the evolution of physical activity and sports, and the factors that influence an individual's participation in physical activity. The course prepares students for university programs in physical education, kinesiology, recreation, and sports administration.
Prerequisite: Any university or university/college preparation course in science or any Grade 11 or 12 course in health and physical education.

Advanced Functions, Grade 12 (University Preparation - MHF4U1)
This course extends students' experience with functions. Students will investigate the properties of polynomial, rational, logarithmic, and trigonometric functions; develop techniques for combining functions; develop techniques for combining functions; broaden their understanding of rates of change; and develop facility in applying these concepts and skills. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. This course is intended both for students taking the Calculus and Vectors course as a prerequisite for a university program and for those wishing to consolidate their understanding of mathematics before proceeding to any one of a variety of university programs.
Prerequisite: Functions, Grade 11, University Preparation, or Mathematics for College Technology, Grade 12, College Preparation

Calculus and Vectors, Grade 12 (University Preparation - MCV4U1)
This course builds on students' previous experience with functions and their developing understanding of rates of change. Students will solve problems involving geometric and algebraic representations of vectors, and representations of lines and planes in three-dimensional space; broaden their understanding of rates of change to include the derivatives of polynomial, rational, exponential, sinusoidal, and radical functions; and apply these concepts and skills to the modelling of real-world relationships. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. This course is intended for students who choose to pursue careers in fields such as science, engineering, economics, and some areas of business, including those students who will be required to take a university-level calculus, linear algebra, or physics course.
Note: The new Advanced Functions (MHF4U1) must be taken prior to or concurrently with Calculus and Vectors (MCV4U1)
Prerequisite: Functions, Grade 11, University Preparation

Mathematics of Data Management, Grade 12 (University Preparation -MDM4U1)
This course broadens students' understanding of mathematics as it relates to managing data. Students will apply methods for organizing large amounts of information; solve problems involving probability and statistics; and carry out a culminating investigation that integrates statistical concepts and skills. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. Students planning to enter university programs in business, the social sciences, and the humanities will find this course of particular interest.
Prerequisite: Functions and Applications, Grade 11, University/College Preparation, or Functions, Grade 11, University Preparation

Foundations for College Mathematics, Grade 12 (College Preparation - MAP4C1)
This course enables students to broaden their understanding of real-world applications of mathematics. Students will analyse data using statistical methods; solve problems involving applications of geometry and trigonometr; solve financial problems connected with annuities, budgets, and renting and owning accommodations; simplify expressions; and solve equations. Students will reason mathematically and communicate their thinking as they solve multi-step problems. This course prepares students for college programs in areas such as business, health sciences, and human services, and for certain skilled trades.
Prerequisite: Foundations for College Mathematics, Grade 11, College Preparation

Mathematics for Work and Everyday Life, Grade 12 (Workplace Preparation - MEL4E1)
This course enables students to broaden their understanding of mathematics as it is applied in the workplace and daily life. Students will investigate questions involving the use of statistics; apply the concept of probability to solve problems involving familiar situations; investigate accommodation costs and create household budgets, and prepare a personal income tax return; use proportional reasoning; estimate and measure; and apply geometric concepts to create designs. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.
Prerequisite: Mathematics for Work and Everyday Life, Grade 11, Workplace Preparation

Biology, Grade 12 (University Preparation - SBI4U1)
This course provides students with the opportunity for in-depth study of the concepts and processes associated with biological systems. Students will study theory and conduct investigations in the areas of metabolic processes, molecular genetics, homeostasis, evolution, and population dynamics. Emphasis will be placed on achievement of the detailed knowledge and refined skills needed for further study in the various branches of life sciences and related fields.
Prerequisite: Biology, Grade 11, University Preparation

Biology, Grade 12 (University Preparation - SBI4UA) {Advanced Placement}
This course will cover the expectations for Grade 12 Biology, University Preparation, but will also prepare students to write the advanced placement exam. It is designed to provide enrichment for gifted and high achieving students. Advanced placement exam results may be used by some universities for admission and credit granting. For more information regarding advanced placement courses please go to www.ap.ca. **There is a fee charged to write the AP Exam.**
Prerequisite: Biology, Grade 11, University Preparation with high achievement

Chemistry, Grade 12 (University Preparation - SCH4U1)
This course enables students to deepen their understanding of chemistry through the study of organic chemistry, energy changes and rates of reaction, chemical equilibrium, atomic and molecular structure, and electrochemistry. Students will further develop problem-solving and laboratory skills as they investigate chemical processes, at the same time refining their ability to communicate scientific information. Emphasis will be placed on the importance of chemistry in daily life, and on evaluating the impact of chemical technology on the environment
Prerequisite: Chemistry, Grade 11, University Preparation

Chemistry, Grade 12 (College Preparation - SCH4C1)
This course introduces students to the concepts that form the basis of modern chemistry. Students will study qualitative analysis, quantitative relationships in chemical reactions, organic chemistry and electrochemistry, and chemistry as it relates to the quality of the environment. Students will employ a variety of laboratory techniques, develop skills of data collection and scientific analysis, and communicate scientific information using appropriate terminology. Emphasis will be placed on the role of chemistry in daily life and in the development of new technologies and products.
Prerequisite: Science, Grade 10, Academic or Applied

Physics, Grade 12 (University Preparation - SPH4U1)
This course enables students to deepen their understanding of the concepts and theories of physics. Students will explore further the laws of dynamics and energy transformations, and will investigate electrical, gravitational, and magnetic fields; electromagnetic radiation; and the interface between energy and matter. They will further develop inquiry skills, learning, for example, how the interpretation of experimental data can provide indirect evidence to support the development of a scientific model. Students will also consider the impact on society and the environment of technological applications of physics.
Prerequisite: Physics, Grade 11, University Preparation

Physics, Grade 12 (College Preparation - SPH4C1) *{alternate year course 2008-09}
This course develops students' understanding of the basic concepts of physics. Students will explore these concepts as they relate to mechanical, electrical, fluid (hydraulic and pneumatic), and communications systems, as well as to the operation of commonly used tools and equipment. They will develop scientific-inquiry skills as they verify accepted laws of physics and solve both assigned problems and those emerging from their investigations. Students will also consider the impact of technological applications of physics on society and the environment.
Prerequisite: Science, Grade 10, Academic or Applied

Science, Grade 12 (University/College Preparation - SNC4M1) *{alternate year course offered in 2009-10}
This course enables students, including those who do not intend to pursue science-related programs at the post secondary level, to further develop their understanding of science and its technological applications. Students will explore a range of topics, including organic products in everyday life; pathogens and disease; energy alternatives and their impact globally; communication systems; and contemporary scientific discoveries and dilemmas. Emphasis will be placed on relating these topics to global issues as well as to daily life, and on developing skills in the areas of experimentation, research, critical thinking, and analysis. **Prerequisite: Science, Grade 11, University/College**

Preparation Science, Grade 12 (Workplace Preparation - SNC4E1)
This course provides students with the science-related knowledge and skills they need to help them make informed decisions in the workplace and in their personal lives. Students will explore a range of topics, including chemistry at home and a t work; communications technology; medical technology; gardening; horticulture, landscaping and forestry; and alternative life-sustaining environments. Emphasis is placed on relating these topics directly to students' experiences both in the world of work and in daily life.
Prerequisite: Science, Grade 11, Workplace
Individuals and Families in a Diverse Society, Grade 12 (University/College Preparation - HHS4M1)
This course applies current theories and research from the disciplines of anthropology, psychology, and sociology to the study of individual development, family behaviour, intimate and parent–child relationships, and the ways in which families interact within the diverse Canadian society. Students will learn the interpersonal skills required to contribute to the well-being of families, and the investigative skills required to conduct and evaluate research about individuals and families.
Prerequisite: Any university or university/college preparation course in social sciences, Canadian and world studies, or English

The Fashion Industry, Grade 12 (Open - HNB4O1)
This course provides a historical perspective on fashion and design, exploring the origins, influence, and importance of fashion as an expression of national, cultural, religious, and personal identity. Students will learn about the many facets of the Canadian fashion industry, including both large-scale and small entrepreneurial enterprises, and its worldwide links, as well as gaining practical experience in garment design, production, and care. This course also refines students' skills used in researching and investigating various aspects of the fashion industry. The grade 11 course, Fashion and Creative Expression, is strongly recommended as a prerequisite. ***Students will be required to purchase materials and supplies.***
Prerequisite: None

Communications Technology, Grade 12 (University/College Preparation - TGJ4M1) *Please see end of this section for yearbook and multiple credit option)
This course examines communication systems and design and production processes in one or more of the areas of electronics, live and graphic communications. Students will independently create, manage and distribute complex graphic, electronic or audiovisual projects. Students will also study industry standards and regulations, and health and safety issues, and will explore careers, the importance of lifelong learning, and the impact of communications technology on society and the environment. Projects include Desktop Publishing, Digital Imaging and Webpage Design using CorelDraw, PhotoShop, Macromedia and Black and White Photography; 3D animation using 3D Studio Max; and Video production using Adobe Premiere**.**
Prerequisite: Communications Technology, Grade 11, University/College Preparation

Communications Technology, Grade 12 (Workplace Preparation - TGJ4E1) *Please see end of this section for yearbook and multiple credit option)
This course examines communication systems and design and production processes in one or more of the areas of electronics, live and graphic communications. Students will develop the specialized knowledge and skills needed to diagnose and solve problems in an array of advanced communications systems and to maintain and repair such systems. Students will also study industry standards and regulations, and health and safety issues, and will explore careers, the importance of lifelong learning, business management and entrepreneurial opportunities and the impact of communications technology on society and the environment. Projects include Desktop Publishing, Digital Imaging and Webpage Design using CorelDraw, PhotoShop, Macromedia and Black and White Photography; 3D animation using 3D Studio Max; and Video production using Adobe Premiere**.**
Prerequisite: Communications Technology, Grade 11, Workplace Preparation

Construction Technology, Grade 12 (Workplace Preparation - TCJ4E1)
This course focuses on residential and heavy construction, emphasizing advanced practical workplace applications and the development of generic employment skills and independent learning skills. Students will examine the materials, processes, labour, tools, and equipment used in the construction industry; technical drawings; mechanical systems; and landscaping. They will also study industry standards and building codes, consider health and safety issues, and explore careers, lifelong learning opportunities, and the impact of construction technology on society and the environment. ***Some technology courses require a fee for materials used to produce student projects.***
Prerequisite: Construction Technology, Grade 11, Workplace Preparation

Construction Technology, Grade 12 (Workplace Preparation - TCJ4EW) - Building Maintenance {Pathway Program}
This single credit course covers the expectations for the Grade 12 Workplace Construction Technology course and will provide practice in the various skills associated with home maintenance and construction.
Prerequisite: None

Technological Design, Grade 12 (University/College Preparation - TDJ4M1)
This course provides students with opportunities to solve problems in design through the use of technical drawings, model building, testing, and marketing. Students will research, design, and test solutions for residential or commercial architecture, industrial engineering, and manufacturing. They will also examine the educational requirements of a technical-design-related career in engineering, architecture, or industrial design. ***Some technology courses require a fee for materials used to produce student projects.***
Prerequisite: Technological Design, Grade 11, University/College Preparation

Technological Design, Grade 12 (Workplace Preparation - TDJ4E1)
This course helps students develop a systematic process to design products or services based on an understanding and analysis of consumer needs, material characteristics, fabrication methods, and design principles. Students will develop design briefs, conduct marketing surveys, create freehand and computer-generated illustrations, make models, generate technical reports, design packaging, and become aware of design trends. They will also examine careers and small business opportunities in design, architecture, manufacturing, or marketing. ***Some technology courses require a fee for materials used to produce student projects.***
Prerequisite: Technological Design, Grade 11, Workplace Preparation

Transportation Technology, Grade 12 (Workplace Preparation, Automotive - TTJ4E1) ** *Please see note regarding multiple credit opportunities at end of the is section.***
This course examines the commonalities of land, air, and/or marine vehicles and transportation systems. Students will develop safe workplace habits and business management skills and will use diagnostic, hand, and power tools effectively to service and repair vehicles to meet industry standards and safety inspections. They will also research the entry requirements for apprenticeship training programs and develop the employability and technical skills required for entry

into the workplace. Students will learn how to work on "customer cars" and are encouraged to bring in their own vehicles to work on. Parts of this course can be used as part of a pre-apprenticeship program. ***Some technology courses require a fee for materials used to produce student projects.***
Prerequisite: Transportation Technology, Grade 11, Workplace Preparation

Transportation Technology, Grade 12 (College Preparation, Automotive - TTJ4C1)** ***Please see note regarding multiple credit opportunities at end of the is section.***
This course examines alternative modes of mass transit to enable students to develop the specialized knowledge and skills required to work with sophisticated land, air, and/or marine vehicles and transportation systems. Students will solve problems related to vehicles and transportation systems; examine transportation-related issues such as energy conversion, power transfer, control systems, and environmental and societal impact; and investigate the educational requirements of career opportunities in the transportation sector.
Prerequisite: Transportation Technology, Grade 11, College Preparation

Transportation Technology, Grade 12 (Workplace Preparation, Small Engines - TTJ4E9) ** ***Please see note regarding multiple credit opportunities at end of the is section.***
This course examines the commonalities of land, air, and/or marine vehicles and transportation systems. Students will develop safe workplace habits and business management skills and will use diagnostic, hand, and power tools effectively to service and repair vehicles to meet industry standards and safety inspections. They will also research the entry requirements for apprenticeship training programs and develop the employability and technical skills required for entry into the workplace. Students will concentrate on the repair of marine and small engine vehicles ***Some technology courses require a fee for materials used to produce student projects.***
Prerequisite: Transportation Technology, Grade 11, Workplace Preparation

Transportation Technology, Grade 12 (College Preparation, Small Engines - TTJ4C9) ** ***Please see note regarding multiple credit opportunities at end of the is section.***
This course examines alternative modes of mass transit to enable students to develop the specialized knowledge and skills required to work with sophisticated land, air, and/or marine vehicles and transportation systems. Students will solve problems related to vehicles and transportation systems; examine transportation-related issues such as energy conversion, power transfer, control systems, and environmental and societal impact; and investigate the educational requirements of career opportunities in the transportation sector. Students will concentrate on the repair of marine and small engine vehicles.
Prerequisite: Transportation Technology, Grade 11, College Preparation

Computer and Information Science, Grade 12 (University/College - Preparation ICS4M1)
This course helps students use programming and software engineering principles to design and develop algorithms and programs. Students will use software development and diagnostic tools, implement data structures and algorithms, and use file management techniques in project settings. They will also develop an understanding of the ethics of computer use and the impact of information technology on the community, and will explore post secondary education and career paths in computer science.
Prerequisite: Computer and Information Science, Grade 11, University/College Preparation

Computer Engineering, Grade 12 (University/College Preparation - ICE4M1) *{alternate year course 2009-10}
This course helps students understand and apply computer engineering concepts. Students will analyse and design computer components such as logic circuits and interfaces; develop and construct systems and write the associated computer programs to drive real-world devices such as traffic lights, models, and robots; and explore networking hardware, protocols, and configurations. As well as developing project management skills, students will examine the ethics of computer use and explore related educational requirements and careers. Curriculum from the CISCO CCNA Discovery course will be taught in order to build and repair local area networks as well as computer systems. ***Some technology courses require a fee for materials used to produce student projects.***
Prerequisite: Computer Engineering, Grade 11, University/College Preparation or Computer Information Science, Grade 11, University/College Preparation

Computer Engineering, Grade 12 (Workplace Preparation - ICE4E1) *{alternate year course 2009-10}
This course helps students understand network topologies (how computers are connected in networks) and associated hardware, and gain practical knowledge of hardware and software operations and trends. Students will install and maintain computer systems and networks, and diagnose and solve problems in them; develop maintenance and repair protocols; and customize utility and application software to meet user needs. As well as developing skills to communicate with customers, students will examine computer ethics and identify skill requirements for computer support positions. Curriculum from the CISCO CCNA Discovery course will be taught in order to build and repair local area networks as well as computer systems. ***Some technology courses require a fee for materials used to produce student projects.***
Prerequisite: Computer Engineering, Grade 11, Workplace Preparation

Multiple Credit Opportunities

Co-operative Education, Grade 12 (WRK501 - 1 Credit, WRK5O2 - 2 Credits, WRK5OD - second double, WRK5O4 - full day, 4 credits, WRK50Y - OYAP, WRK5OM - Militia)

Students may take a double credit, two doubles, triple (double + single)or quadruple credits in Cooperative Education as outlined on page 15 of this booklet**.**

Technology Packages

The Ministry policy document for Technological Information states: "courses may be developed to emphasize a particular area, but not to the exclusion of other areas within the subject." Students must be given the opportunity to achieve all of the expectations.

However, students may earn **more than one credit** for a course based on a set of course expectations when it is part of a program leading to apprenticeship or certification, or it is part of a school - work transition program. Additional time (and credits) can be allotted in 55 hour increments, up to a maximum of 330 hours (3 credits), in order to provide for practice and refinement of skills. Ministry policy clearly states that, "the number of additional credits and the nature of the assignments to be completed must be established before the start of the course".

Schools are allowed to organize their multiple technology programs that have the same course expectations of the individual courses but a different focus by offering the courses in packages. The Technology Department at Adam Scott has developed two sets of multiple credit packages, based on the same set of individual courses but a different focus. We offer Technology Packages in Transportation and Communications in the following manner:

Communications Technology (Yearbook)

The yearbook course covers the expectations for the Grade 11 and 12 University/College Communications Technology Courses and will provide practice and refinement of skills through the use of Desktop Publishing, Digital Imaging and Journalism to produce the school's Yearbook and Video Yearbook.. These credits can be taken in grade 11 and/or 12.

There are a number of ways in which these credits may be obtained:

1) Students may opt into this course for **one semester as TGJ3MK or TGJ4MK (one credit)**
2) Students may take this course for the **full year as TGJ3M6(two credits) or TGJ4M6 (two credits)**
3) Students may take a three credit package which includes the **full year yearbook course and an additional Communication Technology course such as TGJ3M1 and TGJ3M6 or TGJ4M1 and TGJ4M6**

Transportation Technology (Automotive or Race Car Program or Small Engines Focus)

These courses cover the expectations for the grade 11 and 12 Workplace Transportation Technology Courses and will provide practice and refinement of skills in the specified field(s) of focus through repairs on individual personal vehicles as well as vehicles brought into the shops by "customers".

There are a number of ways that these credits may be obtained:

1) Students may opt into any of these courses for **single credits in grade 11 and/or 12 as TTJ3E1, TTJ3EW** or **TTJ3E9, or TTJ3C1** or **TTJ3C9 or TTJ4E1, TTJ4EW,** or **TTJ4E9, or TTJ4C1** or **TTJ4C9.**
2) Students may opt to take combinations of these above courses to a **maximum of three credits for each separate course code.**

In any cases of multiple credits, the final mark will be calculated based on the average of the individual credits and no more than three credits can be "attached" to one code.

***Please pay particular attention to the codes to ensure that you are signing up for the courses that you want and make an appointment with a Guidance Counsellor if you are not sure or have questions.**

NEED MORE INFORMATION???

Students and parents with questions should contact Adam Scott C.V.I. (743-7373) and make an appointment to see:

- your child's present teachers for recommendations regarding stream placement and/or course details

- a Guidance Counsellor
  Mrs. Janie Kelly - Ext. 132
  Mr. Bill Lees - Ext. 159

- the Head of Special Education
  Mr. Peter McAuley - Ext. 144

- the Principal
  Ms Melanie Foulkes - Ext. 143

- or our Secondary Vice Principals
  Mr. Bill Mitchell - Ext. 133
  Ms Annie Johnston- Ext. 138

Educational Planning Sheet

Grade 9 Year:	Grade 10 Year:	Grade 11 Year:	Grade 12 Year :	Extra Year:
English	English	English	English	
Math	Math	Math		
Science	Science			
Canadian Geography	Canadian History			
French	**Civics & Career Studies**			
Physical Education				

* 3 more compulsory credits required in addition to those listed (See page 2 for details)

* Be sure to pay attention to prerequisite charts

Notes (Things to Remember): _____

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