



Course Calendar & Descriptions

2008 – 2009

At CedarBridge Academy where excellence is valued, we cultivate Bermuda's achievers

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INFORMATION

Course Title:

The name of the course and the year level that is offered.

Course Code: Important!

The code is used to enter your requests / choices into the computer and distinguishes it from another course.

Prerequisite:

This is a course that you **should have passed** in order to take the next course at a higher level. Please read a course's prerequisite **very carefully**. Some courses require specific marks or percentages to be obtained in a previous course before you are allowed to select them.

Course Type:

Required - these are courses you **must take** in order to graduate.

Required / Elective - these courses can be used as required courses **or** elective courses.

Elective - these are courses that you can choose as to earn credits based on your career plan or personal interest.

Credits:

This is the value of the course. Credits go towards graduation. Courses are worth 2 or 4 credits and relate to the number of hours (length) spent taking the course. One-semester courses are 2 credits and two semester courses are worth 4 credits.

Timetable Value (TV):

The timetable value (TV) is the amount of time the course takes up on your timetable. A TV value of 2 means that, the course is taken **4 times per week for 1 semester** (half year). A TV of 4 means the course **is taken 4 times per week for 1 year**. If the TV is greater than 4 it means it takes up more than one period in a given day.

The Arts Communications

THIS COURSE SHOULD BE FOLLOWED WITH JOURNALISM AND PUBLICATION S3

COURSE TITLE: Media Communications S2

PREREQUISITE: Visual Arts S1

CREDITS: 2

COURSE CODE: **VR2480MED**

COURSE TYPE: Elective

TIMETABLE VALUE: 2

This course will introduce the student to the world of communication media using video and audio with radio, television, movie and computers as media for communication. The students will explore and create newspapers as a written media, explore and realize a radio show as a spoken/entertainment medium and explore and produce a TV programme as a visual entertainment medium. They will also explore and produce special effects using computers for their video, and/or audiotape to communicate their message, opinion on radio and /or TV. Students will explore through studio visits, the equipment required to effectively produce audio and video TV programmes. They will be introduced to the use of computers, desktop and electronic publishing for the world of communication.

COURSE TITLE: Television Communication S3

PREREQUISITE: Media Communications S2

CREDITS: 2

COURSE CODE: **VR3560TVC**

COURSE TYPE: Elective

TIMETABLE VALUE: 2

This course will introduce the student to the world of communication technology using the television media. The students will create and produce their own commercial, newscast and/or television programme. They will also produce a video, an audiotape to communicate with the world their message/ opinion on a TV screen. The students explore, through TV studio visits, the equipment required to effectively produce audio and video for TV programmes. They will continue to use computers for the production of their TV programmes.

COURSE TITLE: Photography S3/ S4

PREREQUISITE: *Visual Art in Society S1 or equivalent and Portfolio Review*

CREDITS: 2

COURSE CODE: **VR2350PHO**

COURSE TYPE: Elective

TIMETABLE VALUE: 2

This course is designed to teach students interested in the science of black and white film and print development. The students will be introduced to SLR cameras and DIGITAL cameras. He/she will explore and practice the technical capabilities of various types of cameras and film as an aesthetic form of visual communication. A folder/journal, containing photographs and alternative processes, as well as tests and personal observations, will be the end product of this course. Digital imagery and manipulation will also be explored through the use of programs and the Information Technology.

The Arts Dance

COURSE TITLE: Dance in Society S1

PREREQUISITE: None.

CREDITS: 2

COURSE CODE: DN1150DNC

COURSE TYPE: Required/ Elective

TIMETABLE VALUE: 2

Dance in Society provides a basic understanding of the values and effects of movement in everyday life. Experiences are based on principles and techniques of most dance forms, including Modern Dance, Jazz Dance, Tap Dance, Multicultural Social Dances and others. Dance history, anatomy, choreography and production in a safe and healthy environment will be introduced. **Appropriate dance attire and footwear are required.**

Dance auditions will be required for students entering CedarBridge from Middle School. Auditions will be held at Cedarbridge or at the middle school.

COURSE TITLE: Ballet, Modern, Tap and Jazz I S2

PREREQUISITE: Dance in Society S1

CREDITS: 2

COURSE CODE: DN2371BMT

COURSE TYPE: Elective

TIMETABLE VALUE: 2

Ballet, Modern, Tap and Jazz I is a course designed to introduce newcomers to dance and to these performance techniques. The fundamentals of these techniques will be studied, so that the student is familiar with the style, vocabulary and disciplines involved. Students will also be introduced to the history, culture and traditions of these forms. The classes will be highly structured and methodical in nature.

Assessment will be based upon the student's individual growth, participation, and testing of acquired knowledge and understanding of these forms and their histories. **Appropriate dance attire and footwear are required. There will also be an audition for this course**

COURSE TITLE: World Dance Forms S2

PREREQUISITE: Dance in Society S1

CREDITS: 2

COURSE CODE: DN2400WRL

COURSE TYPE: Elective

TIMETABLE VALUE: 2

The development of basic dance skills, for successful participation in the various divisions of cultural and recreational dance, will be featured in this course. Students will study the dance and music of various cultures (i.e. Gombey dance, African, Spanish, Portuguese, etc.), as well as the history of these forms.

Assessment will be based on participation and testing of acquired knowledge and understanding of the subject.

Appropriate dance attire and footwear are required. There will also be an audition for this course.

COURSE TITLE: **Ballet, Modern, Tap and Jazz II S3**

PREREQUISITE: Ballet, Modern, Tap and Jazz I S2

CREDITS: 2

COURSE CODE: DN3452BMT

COURSE TYPE: Elective

TIMETABLE VALUE: 2

In Ballet, Modern, Tap and Jazz II, students will build upon the skills gained in the first section of the course. A greater emphasis will be placed on technique, choreography and performance skills. Students will complete projects in each form and also participate in school performances.

Assessment will be based upon the student's individual growth, participation, and testing of acquired knowledge and understanding of these forms and their histories.

Appropriate dance attire and footwear are required. There will also be an audition for this course.

COURSE TITLE: **Dance Company S3 & S4**

PREREQUISITE: 2 Dance Classes

CREDITS: 2

COURSE CODE: DN3470DCO

COURSE TYPE: Elective

TIMETABLE VALUE: 2

This "course" is designed to operate as an actual dance company. Students will be required to develop dances, as well as perform for the school and local community. Various dance forms will be explored, and students will be challenged in rigorous sessions of dance techniques. This course requires a commitment to extra-curricular time.

Assessment will be based on participation in both classes and performances. Admittance to this course is by audition, successful completion of a least two other dance courses, and/or permission of the instructor.

Appropriate dance attire and footwear are required.

COURSE TITLE: **Dance Productions S4**

PREREQUISITE: 3 dance/performing arts courses or permission of instructor

CREDITS: 2

COURSE CODE: DN4380PRD

COURSE TYPE: Elective

TIMETABLE VALUE: 2

This course will feature the application of accumulated knowledge by the fusion of all production elements, costumes, sets, lighting, and choreographic intentions, into a total presentable theatrical form. Classroom activities will relate to the actual experience of dance production. Students will assist with school dance and/or other productions, and develop individual own projects.

Assessment will be based on participation, successful completion of class projects, testing of acquired knowledge, as well as the communicated understanding of the subject. Students will be required to fulfill extra-curricular hours for this class. To register, students must have successfully completed at least three other dance/performing arts courses, or obtain permission from the instructor.

Dance Production S4 is closely related to Play Production S4 and may need to be combined/team taught or abandoned.

The Arts Music

COURSE TITLE: **Music in Society S1**

PREREQUISITE: None.

Audition in Middle school or CedarBridge

CREDITS: 2

COURSE CODE: **MU1130MUS**

COURSE TYPE: **Required / Elective**

TIMETABLE VALUE: 2

This course is designed to give students an opportunity to explore the various music avenues they might consider as options in the future. With that in mind, the course will offer elementary theory, piano keyboard and music appreciation. At the end of this course, students will present a project on a significant musician and will be given the opportunity to take a comprehensive exam in Music Theory (Grade 1 – Royal Schools of Music).

COURSE TITLE: **Instrumental Ensemble S2**

PREREQUISITE: *Music in Society S1*

There will also be an audition for this course.

CREDITS: 2

COURSE CODE: **MU2270IST**

COURSE TYPE: **Elective**

TIMETABLE VALUE: 2

This course is designed for instrumental music students who understand basic requirements. Participants in this course will study a variety of musical forms characteristic of the periods, theme and variation, suite, prelude, fugue, etc. Students must be prepared to rehearse after school /or lunch-time and perform in the school and/or local community. Students will study music and perform music from various periods written and or arranged for band. A commitment to practicing and taking lessons is required as part of this class. Students will be encouraged to join the school band.

COURSE TITLE: **Keyboard Lab S2**

PREREQUISITE: *Music in Society S1*

There will also be an audition for this course

CREDITS: 2

COURSE CODE: **MU2290KLB**

COURSE TYPE: **Elective**

TIMETABLE VALUE: 2

This course is designed to give functional keyboard skills to students in the choral and instrumental music programme. Students will study major scales, major and minor triads, ear training and sight-reading. They will study accompaniment styles, chord chart reading, transposition and improvisation. Also students will gain an appreciation for arranging as they learn about chord structure, form, harmony and theory. Those engaged in this course are expected to create simple accompaniment from lead sheets and chord charts as they learn to play by ear and sheet music.

COURSE TITLE: **Vocal Ensemble S2**

PREREQUISITE: *Music in Society S1*

There will also be an audition for this course

CREDITS: **2**

COURSE CODE: **MU2330VOC**

COURSE TYPE: **Elective**

TIMETABLE VALUE: **2**

The purpose of this course is to develop performance skills in ensembles. Students will engage in two part songs, madrigals, ethnic music and other varied and appropriate choral works. Proficiency will cover vocalises, 2-4 part sight-reading and ear training. The repertoire will focus on vocal chamber works from the past approximately 300 years, and artistic interpretation. Programme planning will be emphasized and peer evaluation will be encouraged. Students will have an entrance and exit audition.

COURSE TITLE: **Concert Choir S2**

PREREQUISITE: *Music in Society*

There will also be an audition for this course

CREDITS: **2**

COURSE CODE: **MU2320CON**

COURSE TYPE: **Elective**

TIMETABLE VALUE: **2**

The purpose of this course is to expose students to a wide and varied range of vocal compositions. Vocal technique and music theory will play a vital role in the study of proficiency, repertoire and music performance. Students enrolled in this course must be willing to perform in both the school and local community. Students will have an exit quartet audition, and an entrance solo audition.

The Arts, Theatre

COURSE TITLE: **Theatre in Society S1**
 PREREQUISITE: None
Audition in Middle School or at CedarBridge.
 CREDITS: 2

COURSE CODE: TH1160THR

COURSE TYPE: Required/ Elective
 TIMETABLE VALUE: 2

Theatre in Society provides a focus for the basic introduction and development of fundamental skills in self-awareness, self-discipline, concentration, and voice and body warm-ups. Improvisations, vocal training, play construction, performance critiques and reviews (oral and written), etiquette, stage and body movement, basic mime techniques and introduction to technical theatre and performance will also be studied. This course will also focus on global theatre with a Bermudian emphasis.

COURSE TITLE: **Acting I S2**
 PREREQUISITE: *Theatre in Society S1*
There will also be an audition for this course
 CREDITS: 2

COURSE CODE: TH3541ACT
 COURSE TYPE: Elective
 TIMETABLE VALUE: 2

In this course the budding actor will learn the basic elements of drama such as stage terminology, acting styles and techniques, stage blocking, voice and diction and the speech mechanism. Also students will learn the relevance of theatre history so that they will better appreciate outstanding plays and playwrights. Students will write critiques, after viewing local performances, and local theatre personalities will be introduced. Much of this course will be spent developing characterization and learning how to improvise. The class will culminate with the student's participation in a dramatic scene, monologue or mime. Independent work, as well as group work, displaying basic knowledge of acting techniques will be emphasized.

COURSE TITLE: **Technical Theatre S2**
 PREREQUISITE: Theatre in Society S1
There will also be an audition for this course
 CREDITS: 2

COURSE CODE: TH2440TTH
 COURSE TYPE: Elective
 TIMETABLE VALUE: 2

Students in this course will study, in depth, various aspects of technical theatre such as lighting design, set design and props, costume and make up, as well as audio and visual technology. Students will learn to care and maintain lighting equipment, design and plot basic lighting, read and draw a basic floor design. Also theatre history, with an emphasis on costume and makeup, will be included in this course. Emphasis will be placed on concentration and discipline, using practical theatre techniques, thus preparing the students for problem solving in the theatre.

COURSE TITLE: **Play Directing S3**
 PREREQUISITE: Acting II
 CREDITS: 2

COURSE CODE: TH3490DIR
 COURSE TYPE: Elective
 TIMETABLE VALUE: 2

This is an advanced course for the theatre student and can only be taken after the student has taken the S1 Theatre in Society course as well as courses in Acting I and Acting II. Focus will be placed on the elements of directing so that the student will be prepared to direct a short scene for the stage. Students will be expected to prepare a director's script and learn to mark it appropriately. The importance of casting, auditions, rehearsals, theatre business and technical production will be emphasized. Also students must be prepared to work with others and display leadership skills vital to a director. Each student will direct a short scene for analysis.

COURSE TITLE: **Acting II S3**

PREREQUISITE: *Acting 1 S2*

There will also be an audition for this course

CREDITS: **2**

COURSE CODE: **TH4372ACT**

COURSE TYPE: **Elective**

TIMETABLE VALUE: **2**

This course is for the advanced theatre student and emphasizes performance. Students will review voice and diction, character analysis and write critiques. Improvisation, mask and mime will include script writing around social issues and notable performers such as Chaplin and Mareau. Students will also be expected to do in depth work on monologues and dramatic scenes. An (optional) independent study involving theatre history, puppetry and dance theatre, with a written research component, makes this course outstanding.

COURSE TITLE: **Play Production S4**

PREREQUISITE: *Play Directing S3, Acting II, Technical Theatre S2*

There will also be an audition for this course

CREDITS: **2**

COURSE CODE: **TH4330PLY**

COURSE TYPE: **Elective**

TIMETABLE VALUE: **2**

This is a course for the advanced student of theatre. In this course the student will learn to produce a one-act play. In the first part of the course the student will review the duties of the production team. Then, assisted by the teacher, the student will choose an appropriate script, cast the play, choose a director and an appropriate production staff, design, and adhere, to a rehearsal schedule. Finally, the student will present the one act play for presentation to the school and/or the local community.

The Arts, Visual Art

COURSE TITLE: Visual Art in Society S1

PREREQUISITE: None.

Review of Portfolio/Work in Middle School or at CedarBridge

CREDITS: 2

COURSE CODE: VR1140VTR

COURSE TYPE: Required/Elective

TIMETABLE VALUE: 2

This course is designed to enhance students' knowledge of art in society primarily on a local then global level. Both two and three-dimensional art will be explored through site visits, discussion of visual art history, aesthetics, studio work, and exhibition. The content of this course is also designed to allow students to explore different mediums and skills and widen their creative understanding.

COURSE TITLE: Three (3) Dimensional Comprehensive S2

PREREQUISITE: *Visual Art in Society S1*

Portfolio Review

CREDITS: 2

COURSE CODE: VR2360DVR

COURSE TYPE: Elective

TIMETABLE VALUE: 2

The purpose of this course is to create original works of art based on the principles and elements of design that relate to three dimensional (3D) arts. The production of exploratory drawings and paintings relating to the final pieces will be required. An understanding of traditional and contemporary 3D art genre and their relationship to the culture in which they are found is essential to this course, as is research into the career possibilities in this field.

COURSE TITLE: Drawing, Painting & Printed Works S2

PREREQUISITE: *Visual Art in Society S1*

Portfolio Review

CREDITS: 2

COURSE CODE: VR2340PRT

COURSE TYPE: Elective

TIMETABLE VALUE: 2

The purpose of this course is to create original and individual works of art that show technical and compositional proficiency in drawing, painting and printed works. Portfolio content should include, but not be limited to, an understanding of the function of line and mass, colour use, emotionalism, local symbolism, cultural expressiveness and spatial treatments. Studio related themes should include, but not be limited to, the natural environment, anatomical drawings, and critiques. Evidence of research related to careers in 2D art as well as the computer generated print media should be shown.

COURSE TITLE: Ceramics S3/S4

PREREQUISITE: *S2 Drawing and Painting Print or S2 3Dcomprehensive*

Portfolio Review

CREDITS: 2

COURSE CODE: VR3430CER

COURSE TYPE: Elective

TIMETABLE VALUE: 2

This course will include but not be limited to the composition and treatment of clay products; qualities of art in different forms and styles of clay products; the recognition of properties, limitations and possibilities of clay construction, through hand building techniques. Students will be expected to use clay bodies, glazes, tools and techniques in producing clay products, and investigate decorating techniques. Students will show development of skills with ceramic tools; examination of qualities of finished products made by professionals, study of vocabulary relating to ceramics and pottery and defense of aesthetic judgments about works of art produced in clay.

COURSE TITLE: **Drawing and Painting S3/S4**

PREREQUISITE: *Drawing, Painting & Printed Works S2 or 3D comprehensive
Portfolio Review*

CREDITS: **2**

COURSE CODE: **VR3440DRW**

COURSE TYPE: **Elective**

TIMETABLE VALUE: **2**

The purpose of this course is to produce evidence of advanced skill in design composition, painting techniques and media. The content should include, but not be limited to, the functions of drawings and paintings in society, including the production of drawings and paintings with selected composition subject matter, expressive quality or expressive content; knowledge about the history of drawings and paintings and their relationship to other processes and periods; problem solving and planning for personal expression and exploration of art career possibilities.

Business Studies

COURSE TITLE: **Business Essentials I S1**

PREREQUISITE: **None**

CREDITS: **2**

COURSE CODE: **BS1061BES**

COURSE TYPE: **Required**

TIMETABLE VALUE: **2**

This course is designed to expand students' understanding of what is involved in business enterprise in Bermuda. Students will appreciate the interrelationship between all business courses. This course will provide students with the foundation necessary to proceed to the next level of study in a comprehensive business programme. Student will develop the appreciation, knowledge, skills and abilities necessary to prepare them to work in a global marketplace.

COURSE TITLE: **Computer Keyboarding & Business Applications S2**

PREREQUISITE: **Business Essentials I S1**

CREDITS: **2**

COURSE CODE: **BS2091KEY**

COURSE TYPE: **Elective**

TIMETABLE VALUE: **2**

This is a beginning course in which emphasis is primarily placed on developing expertise in making a wide variety of communication decisions. This course emphasizes the effective operation of the computer, touch-typing, speed and accuracy in the production of professional and business correspondence. Applications of library information, career planning and communication will also be infused into this course.

COURSE TITLE: **Accounting I S2**

PREREQUISITE: **Business Essentials I S1**

CREDITS: **2**

COURSE CODE: **BS2071ACC**

COURSE TYPE: **Elective**

TIMETABLE VALUE: **2**

Suggested link Accounts II

This course provides an introduction to the basic concepts and principles of accounting, as well as the terms and phrases commonly used. The accounting cycle for a sole proprietorship including recording and posting of transactions, worksheet with adjustments, financial statements and closing entries will be learned.

COURSE TITLE: **Accounting II S3**

PREREQUISITE: **Accounting I S2**

CREDITS: **2**

COURSE CODE: **BS3212ACC**

COURSE TYPE: **Elective**

TIMETABLE VALUE: **2**

This course is a continuation of Accounting I, including the accounting cycle for a partnership and an introduction to automated accounting. A manual and electronic business simulation will be completed.

COURSE TITLE: Marketing S3

PREREQUISITE: Completion of 2 Business Courses

CREDITS: 2

COURSE CODE: **BS3530MKT**COURSE TYPE: **Elective**

TIMETABLE VALUE: 2

This course introduces students to the basic principles of marketing. Topics to be covered include the definition of marketing; the stages in the development of marketing; the role and importance of marketing in Bermuda; target marketing and the four Ps of the marketing mix. These concepts will come alive for students as they incorporate these marketing skills in various business initiatives around the school.

COURSE TITLE: Economics S3

PREREQUISITE: Completion of 2 Business Courses

CREDITS: 2

COURSE CODE: **BS3520ECO**COURSE TYPE: **Elective**

TIMETABLE VALUE: 2

Suggested link International Business
Content is microeconomics

This is a foundation course that introduces students to basic economic concepts. The course emphasizes the importance of being a conscientious consumer and the need to use resources wisely. Topics include scarcity and choice; supply and demand; factors of production; and types of production and the Bermudian economy. Special care will be taken to relate economic theory to everyday life, especially within the Bermudian context.

COURSE TITLE: International Business S4

PREREQUISITE: Economics

CREDITS: 2

COURSE CODE: **BS4170INB**COURSE TYPE: **Elective**

TIMETABLE VALUE: 2

Content is macroeconomics

This course is designed to enable students to examine and understand the functioning and importance of international business to Bermuda. Topics to be covered include characteristics of international exempted companies; reasons for international trade; benefits of international business and the balance of payments.

COURSE TITLE: Travel and Tourism S3

PREREQUISITE: Completion of 2 Business Courses

CREDITS: 2

COURSE CODE: **BS3240TAT**COURSE TYPE: **Elective**

TIMETABLE VALUE: 2

This is a one-semester course, which provides an introduction to the travel and tourism industry. Students are given an overview of the various components of the industry, history of the industry, an introduction to marketing and the various, exciting careers available in travel and tourism. Students will engage in case studies and the course will place emphasis on developing the skills students will need in order to succeed in the area of travel and tourism.

COURSE TITLE: Small Business Management S4

PREREQUISITE: Successful completion of 3 business courses.

CREDITS: 2

COURSE CODE: **BS4180MGT**COURSE TYPE: **Elective**

TIMETABLE VALUE: 2

This course will help students to recognize the opportunities, needs, wants and problems associated with running a business. They will use various forms of technology to local resources to implement innovative ideas for new business enterprises in Bermuda. They will have the opportunity to enhance entrepreneurial skills developed in earlier business courses. (E.g. business plans, numeracy skills, communication skills and decision-making skills.) Students will be encouraged to link those competences with new skills in order to respond with increased confidence to challenges they will meet in the course and in the world market.

COURSE TITLE: Insurance S4

PREREQUISITE: Successful completion of 3 business courses.

CREDITS: 2

COURSE CODE: **BS4160INS**COURSE TYPE: **Elective**

TIMETABLE VALUE: 2

This course is designed to give students a good understanding of what is involved in insurance and the insurance industry in Bermuda. They will appreciate the impact that insurance has on society. It is intended that this course will provide students with a foundation in insurance. Through investigation, students will develop an appreciation, knowledge and basic skills necessary to use insurance in every day life.

COURSE TITLE: Business and Personal Law S3

PREREQUISITE: Completion of 2 Business Courses

CREDITS: 2

COURSE CODE: **BS3220LAW**COURSE TYPE: **Elective**

TIMETABLE VALUE: 2

This course is designed to encourage students to be more aware of their responsibilities as good citizens. It looks at crime, torts and the court system. It encourages students to be more aware of consumer issues, as they discuss sample cases. Students will examine how to enter into general and employment contracts, wills and pensions. Students will acquire knowledge about various negotiable instruments and strategies for effectively using their purchasing power. Business law focuses on teaching students how to start a small business, how to apply skills in resolving disputes and work with the law.

COURSE TITLE: Work Experience S4

PREREQUISITE: Suggested GPA for S4's must be 2.0

CREDITS: 4

COURSE CODE: **CE4420WOR**COURSE TYPE: **Elective**

TIMETABLE VALUE: 4

Only S4 students should register for this course

The aim of the Work Experience programme is to establish a collaborative relationship between the school and the community. Opportunities will be provided for students to acquire "hands-on" experience and to gain knowledge of expectations in the work place in order to make informed decisions regarding careers, employment, and adult living. Class time will include instruction in job application skills (i.e. application completion, resumes, interviews, job search, etc.). Students are required to produce a career research paper. Site visits and career lectures are also offered as part of the programme. Community Service is the final component, which allows the student to be involved in volunteer work with several organizations, extending "good will" throughout Bermuda.

Computer Science

COURSE TITLE: CS I – Introduction to Computing S1

PREREQUISITE: None

CREDITS: 2

COURSE CODE: CS1071CSC

COURSE TYPE: Required

TIMETABLE VALUE: 2

This is a project-based course in which students learn the basics of computing and technology. Students will be exposed to basic computer systems and networks, the Internet, web design using HTML, ethical issues in technology, and the history of computing. Each course module includes in-class activities and a student project, the largest being the small group development of a web site. The course focuses on broad IT concepts rather than specific computer applications, which are taught as tools. The course will familiarize students with the basics of computing and technology, and perhaps encourage students to take additional courses in computer studies.

COURSE TITLE: CS II – Introduction to Programming S2

PREREQUISITE: Introduction to Computing S1

CREDITS: 2

COURSE CODE: CS2132CSC

COURSE TYPE: Elective

TIMETABLE VALUE: 2

Suggested link Intermediate Programming

This is a project-based course in which students learn basic computer programming concepts and are exposed to advanced coverage of topics that were introduced in the prerequisite course, Introduction to Computing. The course is designed for the student who expresses an interest in programming and/or web page development as a career. Students will focus on problem solving as they create programs using Karel the Robot, and move on to the more complex programming using JavaScript. This course introduces students to web page design, and themes in the future of computing and technology. Students will design and implement a dynamic web site and create and present futuristic technology design. Students who elect to take this course must pass Computer Science I with a 70%.

Ministry note: In order to provide adequate support for students, recommended class size should be no more than 15 students as suggested by Stanford consultants.

COURSE TITLE: CS III - Intermediate Programming S3

PREREQUISITE: Introduction to Programming S2

CREDITS: 2

COURSE CODE: CS3251IPG

COURSE TYPE: Elective

TIMETABLE VALUE: 2

This project based, college-level course provides a more intense look at computer programming, using a Java based teaching language. Students who elect to take this course may be interested in a career in programming and software development. The concepts of typed variable, control statements, methods and algorithmic problem solving are all examined in-depth as students write interesting and exciting programs. Because mathematical operations are also employed in the problem solving process, a strong background in math is required as well as solid literacy skills.

Ministry note: In order to provide adequate support for students, recommended class size should be no more than 15 students as suggested by Stanford consultants.

COURSE TITLE: Presentation Tools S2

PREREQUISITE: Introduction to Computing S1

CREDITS: 2

COURSE CODE: CS2140PTL

COURSE TYPE: Elective

TIMETABLE VALUE: 2

Suggested link Operating Systems

Using industry standard software, this comprehensive in the art of desktop publishing, spreadsheet manipulations, graphing and presentation design will focus particularly on the ability to organize data and to deliver effective presentations. Hands-on experience with Microsoft Excel, Access and PowerPoint will play a major role in the instruction of this course. Students wishing to pursue business studies electives are recommended to take this course.

COURSE TITLE: IT Consulting I – Computer Hardware S2

PREREQUISITE: Introduction to Computing S1

CREDITS: 2

COURSE CODE: CS2101ITC

COURSE TYPE: Elective

TIMETABLE VALUE: 2

The first in a series of practical and technical computer consulting courses, the *Computer Hardware* course is designed for students who intend to become CompTIA A+ Certified Hardware Technicians. With a focus on troubleshooting and repair, students will conduct weekly hands on labs which will familiarize them with basic hardware architecture and interaction, installation, upgrading and maintenance techniques, and basic consulting practices in industry. This course is followed by ITCII - Operating Systems, the software sequence of the A+ Certification series.

Students who wish to take the course must pass Computer Science I with 70% and are recommended by an IT instructor. Because of the theoretical demands of this course, students must also have a strong background in reading, writing and mathematics. Students completing this course with an 85% or better will be eligible to take the CompTIA A+ Certification Service Technician exam.

Ministry note: In the interest of safety, class size should be no more than 15 students as previously recommended by Stanford consultants.

COURSE TITLE: IT Consulting II – Operating Systems S3

PREREQUISITE: Consulting 1/Computer Hardware S2

CREDITS: 2

COURSE CODE: CS3272ITC

COURSE TYPE: Elective

TIMETABLE VALUE: 2

This second course in the ITC sequence examines the role of the operating system software in modern PC's. Focusing primarily on the Microsoft platform (MS-DOS, Windows 9x, Windows NT/2000, XP), students will learn installation, advanced configuration and troubleshooting techniques for each environment while also discussing general operating system concepts such as file systems, memory management and device drivers. Students completing this course with an 85% or better will be eligible to take the CompTIA A+ Certification Service Technician exam.

COURSE TITLE: **Visual Design I S3**
 PREREQUISITE: **Introduction to Programming S2**
 CREDITS: **2**

COURSE CODE: **CS3280VIS**
 COURSE TYPE: **Elective**
 TIMETABLE VALUE: **2**

Suggested link Interactive Design

A project-based overview of multimedia hardware and software as applied to information technology. Using industry standard web design applications such as Flash and Dreamweaver, students develop a multimedia presentation using full motion video, colour graphics, animation and hypertext. Typically, students who take this course are interested in a career in Web or Digital Design and Development or Graphic Animation.

COURSE TITLE: **Interactive Design II S4**
 PREREQUISITE: **Visual Design 1 S3**
 CREDITS: **2**

COURSE CODE: **CS4200ITD**
 COURSE TYPE: **Elective**
 TIMETABLE VALUE: **2**

This project-based course addresses the subjects of interaction and design and project management. Students are exposed to interaction design principles and theories, and use this knowledge to design and test their work. Students are also introduced to the tools, methodologies, approaches that can be used to manage design projects effectively. Through case studies, demonstrations, lecture and discussion, they will learn how to establish project scope, set and monitor realistic deadlines, and interact with clients from the business community. Combining their interaction design knowledge and project management skills, students will design and implement a web-site for a Bermuda nonprofit organization. In addition, group critiques throughout the course will help develop and refine both students' portfolios and presentation skills.

This course is structured around the interactive website design project mentioned above. The modules of the course are stages of the design process: analysis, organization, development and evaluation. Each module includes topics related to both project management and interaction design, while leading the students through progressive steps toward the completion of the project. Regular Attendance is essential as projects are based on group work. Self management is the key; therefore students undertaking this course require a high level of maturity.

COURSE TITLE: **IT Mentor Practicum S4**
 PREREQUISITE: **Teacher recommendation via course application**
 CREDITS: **4**

COURSE CODE: **CS4490PRA**
 COURSE TYPE: **Elective**
 TIMETABLE VALUE: **4**

This course is a **year long course** for **senior 4 students**. The main objective of the course is to give students an opportunity to link what they have learned in their IT courses of study to the current world of practice and application. Students will pursue work experience in their particular area of interest and expertise.

The expectation is that for at least 70% of on-site phase of the practicum, students are actively engaged in learning experience relevant to their area of interest.

Ministry note: In order to provide adequate support for students, recommended class size should be no more than 10 students as suggested by Stanford consultants.

Design & Technology

COURSE TITLE: **NCCER Core Curriculum S1**
 PREREQUISITE: **None**
 CREDITS: **4**

COURSE CODE: **DT123INCCR**
 COURSE TYPE: **Elective/Required**
 TIMETABLE VALUE: **4**

The course will focus on all the safety aspects of the construction industry which includes Fire Safety, PPE's; Aerial Work and Communication Skills. This course will also introduce the students to Construction Math; Hand Tools; Power Tools; Blueprint Reading; Basic Rigging. This course is a prerequisite to the other NCCER Construction courses

COURSE TITLE: **NCCER Carpentry I S2**
 PREREQUISITE: **NCCER Core Curriculum**
 CREDITS: **4**

COURSE CODE: **DT2551CAR**
 COURSE TYPE: **Elective**
 TIMETABLE VALUE: **4**

COURSE TITLE: **NCCER Electrical Installation S2**
 PREREQUISITE: **NCCER Core Curriculum**
 CREDITS: **4**

COURSE CODE: **DT2531ELE**
 COURSE TYPE: **Elective**
 TIMETABLE VALUE: **4**

This course will build essential skills and knowledge required for the field of electrical installation and focuses on electrical safety, conduit bending, fasteners and anchors, electrical theory I.

COURSE TITLE: **NCCER Electronic Technology S2**
 PREREQUISITE: **NCCER Core Curriculum**
 CREDITS: **4**

COURSE CODE: **DT2541EST**
 COURSE TYPE: **Elective**
 TIMETABLE VALUE: **4**

Students will receive an introduction to electronic systems, the theory, and the technical application. Activities will also include the study of safety, construction materials, pathways and spaces, and fasteners and anchors.

COURSE TITLE: **Graphic Communication I S2**
 PREREQUISITE:
 CREDITS: **2**

COURSE CODE: **DT2171GPH**
 COURSE TYPE: **Elective**
 TIMETABLE VALUE: **2**

The Graphic Communication I course focuses on, and further develops, graphical skills established in the Design and Technology course. During this course students will undertake four, varied, project based, design modules, each with a supportive graphic skills content.

COURSE TITLE: Transportation Technology I S2
 PREREQUISITE:
 CREDITS: 2

COURSE CODE: DT2181TRN
 COURSE TYPE: Elective
 TIMETABLE VALUE: 2

Students must provide own cover-alls

The Transportation Technology I course builds upon skills developed in Design and Technology. This broad and balanced course will develop, through workshop practices, investigation of power sources and vehicle support systems, the necessary skills and knowledge for subsequent Transportation Technology courses.

COURSE TITLE: NCCER Carpentry II
 PREREQUISITE: NCCER Carpentry I
 CREDITS: 4

COURSE CODE: DT3652CAR
 COURSE TYPE: Elective
 TIMETABLE VALUE: 4

COURSE TITLE: NCCER Electrical II
 PREREQUISITE: NCCER Electrical I
 CREDITS: 4

COURSE CODE: DT3632ELE
 COURSE TYPE: Elective
 TIMETABLE VALUE: 4

COURSE TITLE: NCCER Electronic Systems Tech II
 PREREQUISITE: NCCER Electronic I
 CREDITS: 4

COURSE CODE: DT3642EST
 COURSE TYPE: Elective
 TIMETABLE VALUE: 4

COURSE TITLE: Graphic Communication II S3
 PREREQUISITE: Graphic Communication I S2
 CREDITS: 2

COURSE CODE: DT3312GPH
 COURSE TYPE: Elective
 TIMETABLE VALUE: 2

The Graphic Communication II course will reinforce and expand upon many of the skills taught at the introductory level of this course. New areas will be explored and applied to two design situations. Students will be expected to demonstrate a thorough understanding of the design skills associated with extended projects.

COURSE TITLE: Transportation Technology II S3
 PREREQUISITE: Transportation Technology I S2
 CREDITS: 2

COURSE CODE: DT3322TRN
 COURSE TYPE: Elective
 TIMETABLE VALUE: 2

Transportation Technology II course builds upon skills obtained in Transportation Technology I. Students will further develop their workshop practices, (including fabrication and vehicle body repair) and investigate in detail vehicle support systems.

COURSE TITLE: Graphic Communication III S4
 PREREQUISITE: Graphic Communication II S3
 CREDITS: 2

COURSE CODE: DT4243GPH
 COURSE TYPE: Elective
 TIMETABLE VALUE: 2

The student undertaking this advanced course will be expected to produce a single extended project, of their own choice, which will allow them to explore and further develop their understanding of the graphical skills and applications. Students will select and apply appropriate media and equipment, including computers, as they follow through the design process and realize their ideas.

English Language Arts

COURSE TITLE: English Language & Literature I S1
PREREQUISITE: None
CREDITS: 4

COURSE CODE: EL1011ENG
COURSE TYPE: Required
TIMETABLE VALUE: 4

Students will develop English skills - reading, writing, speaking, listening, and viewing - that enable essential communication. Students will study a variety of literary genre and related literary terms when writing a range of formal and informal papers. They will practice the language skills needed for effective expression and participate in individual and interpersonal oral presentations. Study skills and test-taking skills apply to all coursework. The literature component focuses on Bermuda literature - local writers and their contribution to literature internationally.

COURSE TITLE: English Language & Literature II S2
PREREQUISITE: English Language & Literature I S1
CREDITS: 4

COURSE CODE: EL2012ENG
COURSE TYPE: Required
TIMETABLE VALUE: 4

In this course the study of language, composition and literature is combined in various units. Communication skills, such as tracing word origins, research and study techniques and development of proper grammar usage are emphasized. Composition units develop paragraph structure, outline skills, expository and critical writing. In addition, students research a topic and produce a documented report. Units in literature emphasize the short story, novels, drama, poetry and biography from many cultures and historical periods.

COURSE TITLE: English Language & Literature III S3
PREREQUISITE: English Language & Literature II S2
CREDITS: 4

COURSE CODE: EL3013ENG
COURSE TYPE: Required
TIMETABLE VALUE: 4

This course is designed for senior three students and involves reading of modern American and British literature. Language skills are developed separately and in conjunction with the study of literature. Various short stories, poems, novels and other literary genre are read, evaluated and analyzed in written and oral form. Specific skills, such as critical analysis, essays, group discussion, creative writing, grammar and vocabulary are developed. Research writing and the use of technology are an integral part of this course.

COURSE TITLE: English Language & Literature IV S4
PREREQUISITE: English Language & Literature III S3
CREDITS: 4

COURSE CODE: EL4014ENG
COURSE TYPE: Required
TIMETABLE VALUE: 4

Through a comprehensive study of *World Literature*, students will develop increasingly more sophisticated skills of literary analysis, critical thinking, and written expression and vocabulary, enrichment. Students are expected to assume greater responsibility toward the completion of long-term assignments. Students in this course investigate the historical background of *World Literature*. The influence of writers is defined through oral and written work. Specific skills are developed in research writing and a research paper is a requirement of this course. Student writing is developed through critical and creative responses to the selection.

COURSE TITLE: Journalism and Publication S3
PREREQUISITE: **English Language & Literature S2**
CREDITS: **2**

COURSE CODE: **EL3020JRN**
COURSE TYPE: **Elective**
TIMETABLE VALUE: **2**

This course is designed for students who have an avid interest in writing, designing and editing publications as well as broadcasting. Students will play a vital role in producing the school newspaper. Students will be encouraged to be intuitive and to develop their thinking skills by identifying stories and by generating and administering questionnaires. Students will learn time management and leadership skills by covering and reporting events in the school community according to strict guidelines and timelines.

Participants will gain proficiency in the use of multi media. Students will engage in a number of out of school visits to various media houses in the community. The importance of teamwork, cooperation and dependability will be critical as students will be given shared tasks and responsibilities. This course seeks to develop and highlight a positive culture in journalism in Bermuda.

Family Studies

COURSE TITLE: **Exploring Family Living S1**
 PREREQUISITE: **None**
 CREDITS: **2**

COURSE CODE: **FM1090EFL**
 COURSE TYPE: **Required / Elective**
 TIMETABLE VALUE: **2**

This course enables students to develop the skills necessary to manage their personal, family and future working lives. It also forms the foundation for further courses in this curriculum area. The content is divided into three modules of work: Relationships and family Life, Making healthy food choices and food preparation and textiles technology and the construction process. The learning activities will include theory and practical work. The students will cook healthy dishes for the family and complete a sewing project.

COURSE TITLE: **Discovering Food and Nutrition S2**
 PREREQUISITE: **Exploring Family Living S1**
 CREDITS: **2**

COURSE CODE: **FM2191DFN**
 COURSE TYPE: **Elective**
 TIMETABLE VALUE: **2**

This course explains the role of nutrients in the body and how this relates to good health. Students will have the opportunity to apply this knowledge in practical situations, such as meal planning, to suit individual needs, special diets and the analysis of food products to make informed choices. Emphasis will be placed on producing healthy and nutritious dishes. In addition, students will be introduced to the hospitality industry by completing a catering observation.

COURSE TITLE: **Personal Care I S2**
 PREREQUISITE: **None**
 CREDITS: **2**

COURSE CODE: **FM2201PCR**
 COURSE TYPE: **Elective**
 TIMETABLE VALUE: **2**

Students will gain general knowledge in personal grooming care in all aspects of hairdressing, skin, and body and nail care. During the training students will attain fundamental health, hairdressing and beauty treatment through practical and theory. This course is an opportunity for young people to learn how to be the best they can be by taking care of their body, skin and health. Students will also look at personal presentation and career choices.

COURSE TITLE: **Textile Design S2**
 PREREQUISITE: **Exploring Family Living S1**
 CREDITS: **2**

COURSE CODE: **FM2210TXD**
 COURSE TYPE: **Elective**
 TIMETABLE VALUE: **2**

This course will introduce students to basic sewing skills and garment construction. The student will construct a garment of choice and produce a written portfolio. Students will supply the materials for their own projects. Related course topics will include: textile wardrobe selection, the use of technology in fashion and textile construction.

COURSE TITLE: **Child Care and Development I S3**
 PREREQUISITE: **Exploring Family Living S1**
 CREDITS: **2**

COURSE CODE: **FM3331CCD**
 COURSE TYPE: **Elective**
 TIMETABLE VALUE: **2**

This course focuses on preparation for effective parenting skills and childcare responsibilities. Students will study the importance of family planning process, developing effective decision making skills and the obligations of parenthood; such as guiding and encouraging children, appropriate discipline and strengthening the roles of the family.

COURSE TITLE: Fashion and Textile Design S3
PREREQUISITE: Textile Design S2
CREDITS: 2

COURSE CODE: FM3340FTD
COURSE TYPE: Elective
TIMETABLE VALUE: 2

This course will enable students to become proficient in basic sewing skills and garment construction. Students will construct a complete outfit of their choice. (Students will supply the materials for their own projects.) Related course topics will include: understanding design, clothing and fabric choices, sewing principles and sewing equipment. Students will also complete a written portfolio.

COURSE TITLE: Interior Decorating S3
PREREQUISITE: Exploring Family Living S1
CREDITS: 2

COURSE CODE: FM3350IDG
COURSE TYPE: Elective
TIMETABLE VALUE: 2

This course will enable students to experience the satisfaction of creating soft furnishings for the home, such as pillows, curtains, simple slipcovers, quilts, wall hangings etc. Related course topics will include basic sewing techniques and home decorating ideas for individual rooms in a house and office. Students will provide materials for projects of their choice.

COURSE TITLE: Meal Management & Hospitality S3
PREREQUISITE: Discovering Food and Nutrition S2
CREDITS: 2

COURSE CODE: FM3360MMH
COURSE TYPE: Elective
TIMETABLE VALUE: 2

This course provides experiences in planning, preparing and serving foods. Practical experiences in the laboratory will include knowledge of sanitation, food handling, kitchen safety kitchen equipment, menu interpretation, equipment demonstrations and nutrition.

COURSE TITLE: Personal Care II S3
PREREQUISITE: Personal Care I S2
CREDITS: 2

COURSE CODE: FM3372PCR
COURSE TYPE: Elective
TIMETABLE VALUE: 2

Students will gain a detailed understanding of selected areas of the hairdressing and beauty therapy industry. This will include the presentation of self for the working environment. The course teaches the student to prepare for the transition from school to work. Colour analysis and perception will be included.

Due to the depth, areas of knowledge covered and the high degree of practical classes and assessment, attendance will be a component of this course. Candidates will participate and obtain a competence in salon services. This course can be used as a stepping-stone into the hairdressing industry.

COURSE TITLE: Personal Care III S4
PREREQUISITE: Personal Care II S3
CREDITS: 2

COURSE CODE: FM4433PCR
COURSE TYPE: Elective
TIMETABLE VALUE: 2

Successful students will obtain a detailed understanding of selected areas of the hairdressing industry leading to the City & Guilds Certificate of Hairdressing. Students will build on skills, both practical, verbal and written that have been learned in the previous levels of S2 and S3. Students will perform the selected tasks as outlined in the course guide. Students will create a portfolio of the practical work they have created in the salon. Students will spend time in selected salons within the community to gain work experience in a "real life" situation. Industry partners will give demonstrations and workshops.

Course title: Child Care as a Profession S4
Prerequisite: Child Care and Development I
Credits: 2

Course Code: FM4262CCP
Course Type: Elective
Timetable value: 2

This course will provide students with both theory and a cooperative education component in the exciting field of early childhood care and education. Students will study qualities of an effective care giver, quality childcare settings/programmes, safety, basic first aid and childcare options. Students will be expected to complete a minimum of thirty hours of practical experiences in either a preschool, day care center or the Child Development Program.

Course title: Exploring Careers in Design and Textiles S4
Prerequisite: Textile Design
Credits: 2

Course Code: FM4270EDT
Course Type: Elective
Timetable value: 2

This course will provide students with both theory and a cooperative education component in the exciting field of design and textile services. Students will be expected to complete work experience in either a retail store or dry cleaning business, a fabric store or an interior decorating firm.

Course title: Exploring Careers in Nutrition and Hospitality
Prerequisite: Meal Management and Hospitality
Credits: 2

Course Code: FM4280ENH
Course Type: Elective
Timetable value: 2

This course will provide students with both the theoretical and practical experience of the various aspects of careers related to Nutrition and Hospitality. Students will complete practical experience in their chosen field, maintain a journal of observations, prepare a brochure to advertise their individual projects and thoroughly investigate a career path. This course is a must for all students who are contemplating a career in this field.

Foreign Languages

COURSE TITLE: French I S1

PREREQUISITE: None

CREDITS: 4

COURSE CODE: FL1201FRH

COURSE TYPE: Elective

TIMETABLE VALUE: 4

In this course, students will develop their communication skills through learning everyday expressions, vocabulary and grammatical structures. Although greater emphasis is placed on the development of listening and speaking skills, reading and writing in the target language are infused throughout the course. Role-play, presentations, computers, audiotapes, videos and games are some of the tools used to explore real life situations and to enhance the learning process.

COURSE TITLE: Spanish I S1

PREREQUISITE: None

CREDITS: 4

COURSE CODE: FL1211SPH

COURSE TYPE: Elective

TIMETABLE VALUE: 4

In this course, students will develop their communication skills through learning everyday expressions, vocabulary and grammatical structures. Although greater emphasis is placed on the development of listening and speaking skills, reading and writing in the target language are infused throughout the course. Role-play, presentations, computers, audiotapes, videos and games are some of the tools used to explore real life situations and to enhance the learning process.

COURSE TITLE: French II S2

PREREQUISITE: French I

CREDITS: 4

COURSE CODE: FL2502FRH

COURSE TYPE: Elective

TIMETABLE VALUE: 4

In this course, students will further develop the four basic skills - listening, speaking, reading and writing - as they build on their vocabulary, idiomatic expressions and grammatical structures. Various strategies will be used including role-play, computers, audio-cassettes and videos to enhance the teaching and learning process. Students will also explore other cultures and develop an appreciation for the diversities and commonalties that exist.

COURSE TITLE: Spanish II S2

PREREQUISITE: Spanish I

CREDITS: 4

COURSE CODE: FL2510SPH

COURSE TYPE: Elective

TIMETABLE VALUE: 4

In this course, students will further develop the four basic skills - listening, speaking, reading and writing - as they build on their vocabulary, idiomatic expressions and grammatical structures. Various strategies will be used including role-play, computers, audio-cassettes and videos to enhance the teaching and learning process. Students will also explore other cultures and develop an appreciation for the diversities and commonalties that exist.

COURSE TITLE: French III S3

PREREQUISITE: French II or approval of the instructor

CREDITS: 4

COURSE CODE: FL3603FRH

COURSE TYPE: Elective

TIMETABLE VALUE: 4

In this course, students will continue to develop their level of competency in listening and speaking. They will also experience more reading and writing through the use of selected readings, as well as contemporary and literary texts. The culture of the target language studied will also be integrated into the course to heighten the student's global awareness.

COURSE TITLE: **Spanish III S3**

PREREQUISITE: Spanish II or approval of the instructor

CREDITS: 4

COURSE CODE: **FL3613SPH**

COURSE TYPE: **Elective**

TIMETABLE VALUE: 4

In this course, students will continue to develop their level of competency in listening and speaking. They will also experience more reading and writing through the use of selected readings, as well as contemporary and literary texts. The culture of the target language studied will also be integrated into the course to heighten the student's global awareness.

COURSE TITLE: **French IV S4**

PREREQUISITE: French III or approval of the instructor

CREDITS: 4

COURSE CODE: **FL4464FRH**

COURSE TYPE: **Elective**

TIMETABLE VALUE: 4

In this course, students will develop a higher level of competency in listening, speaking, reading and writing. They will be encouraged to think critically and creatively using the target language. Selected contemporary and literary texts will serve as a basis for discussion, reading and writing and for developing an appreciation of the diversity of the target cultures studied.

COURSE TITLE: **Spanish IV S4**

PREREQUISITE: Spanish III or approval of the instructor

CREDITS: 4

COURSE CODE: **FL4474SPH**

COURSE TYPE: **Elective**

TIMETABLE VALUE: 4

In this course, students will develop a higher level of competency in listening, speaking, reading and writing. They will be encouraged to think critically and creatively using the target language. Selected contemporary and literary texts will serve as a basis for discussion, reading and writing and for developing an appreciation of the diversity of the target cultures studied.

Health Education

COURSE TITLE: Health and Wellness S1
 PREREQUISITE: None
 CREDITS: 2

COURSE CODE: HE1101HAW
 COURSE TYPE: Required
 TIMETABLE VALUE: 2

This course examines the factors that contribute to optimal health and wellness. Enhancing self esteem and personal responsibility are emphasized. Students apply critical thinking skills both by seeking answers to their own health and wellness questions and weighing the benefits and consequences of risk reduction and disease prevention. Local and global health issues will be examined with local bio-statistics and community resources utilized as appropriate. Topics include a focus on health and wellness; mental and emotional health; safety; alcohol, tobacco and other drugs; human sexuality and infectious diseases.

COURSE TITLE: First Aid/CPR/Tobacco/Alcohol (A) S2
 PREREQUISITE: Health and Wellness S1
 CREDITS: 2

COURSE CODE: HE2572TFC
 COURSE TYPE: Elective
 TIMETABLE VALUE: 2

Tobacco Alcohol & Drugs

In many communities around the world, alcohol and tobacco are sold in supermarkets along with groceries. Advertisements for wine, beer, liquors and cigarettes appear in magazines and newspapers. Because alcohol and tobacco are sold in so many ordinary places and they are legal, this course is designed to look at use, abuse and addiction to these substances. Additionally, the use, abuse and addiction to illicit drugs will be closely examined. The Skills for Action Quest Life Skills Programme provides a basis for this course. This part of the S2 course runs for one term.

First Aid and CPR

This course will follow the American Red Cross programme for standard first aid and safety. Students will be able to recognize and treat these emergencies. The course uses a combination of video, lecture and hands-on experiences to introduce the material. Certified Bermuda Red Cross Trainers will instruct students in Adult, Children and Infant CPR techniques using mannequins. The importance of first aid training will be discussed together with careers in related fields. The American Red Cross test will be used to assess this programme, and students, if successful will be certified with their First Aid and CPR Certificates. This part of the S2 course runs for one term.

COURSE TITLE: Health Issues S3/S4
 PREREQUISITE: Health and Wellness S1
 CREDITS: 2

COURSE CODE: HE3510HTH
 COURSE TYPE: Elective
 TIMETABLE VALUE: 2

This course is designed to extend and refine knowledge already gained in earlier health education courses and increase health literacy and personal responsibility for health and wellness. Students will undergo health behaviour assessments and apply principles of risk reduction and health promotion to selected current health issues. Mental and emotional health; nutrition and physical inactivity; safety, violence and injury prevention; chemical dependency and the risks of unprotected sex are among the health issues to be studied. Independent research and multimedia production activities will be undertaken in addition to critical examination of viewpoints on ethical issues related to health.

Mathematics

COURSE TITLE: Mathematics Laboratory S1

PREREQUISITE: None

CREDITS: 4

COURSE CODE: MT1030LAB

COURSE TYPE: Elective

TIMETABLE VALUE: 4

Mathematics Laboratory is a course designed for students who had difficulty with middle school level three mathematics. The student will apply basic mathematics to various consumer activities, sports statistics, job-related problems and other real-life situations. Manipulative materials and technology will be used to help students bridge the gap between the concrete experiences and abstract ideas.

(Credit cannot be used to satisfy required mathematics credit hours)

COURSE TITLE: Mathematics Foundation S1

PREREQUISITE: None

CREDITS: 4

COURSE CODE: MT1020FND

COURSE TYPE: Required

TIMETABLE VALUE: 4

Mathematics Foundation S1 is an introductory course offered to all students entering senior school. Students will develop their understanding of mathematical concepts and expand on topics taught at the middle level. This core curriculum will be differentiated in relationship to the breadth and depth of the treatment of topics and their applications. Mathematics Foundation S1 is intended to improve problem solving, communication and reasoning skills while fostering a positive attitude towards mathematics.

COURSE TITLE: Mathematics Integrated I S2

PREREQUISITE: Mathematics Foundation S1 and Recommendation from your Mathematics teacher

CREDITS: 4

COURSE CODE: MT2041INT

COURSE TYPE: Required

TIMETABLE VALUE: 4

Mathematics Integrated I S2 incorporates the mathematics topics offered in a standard Algebra I, Geometry and Algebra II sequence. The content of these courses is offered through a core curriculum over a two-year period. Important concepts are differentiated in relationship to the breadth and depth of their treatment and application within this discipline and across other disciplines. Through challenging explorations, students will collaboratively investigate and solve a variety of problems.

COURSE TITLE: Mathematics Applied I S2

PREREQUISITE: Mathematics Foundation S1

CREDITS: 4

COURSE CODE: MT2031APP

COURSE TYPE: Required

TIMETABLE VALUE: 4

Students will work with polynomials and solve problems involving systems of equations and quadratic equations. They will be involved with a more in-depth study of triangles, circles, and solid figures and will practice some basic geometric constructions. Throughout the course real world applications will be used to present these concepts in contextual settings.

COURSE TITLE: Mathematics Integrated II S3

PREREQUISITE: Mathematics Integrated I S2 with a minimum grade of C or Math. Applied I S2 with at least a B standing and Recommendation from your Mathematics teacher
CREDITS: 4

COURSE CODE: MT3052INT
COURSE TYPE: Required
TIMETABLE VALUE: 4

This is the third component of a core curriculum that includes topics from standard geometry and algebra level II courses. Ideas from Mathematics Integrated I S2 are expanded upon and students will be expected to reason mathematically while exploring and describing real world issues. The major emphasis will be on students constructing ideas through questioning, exploration and discovery, with frequent use of models, applications, connections and technology.

COURSE TITLE: Mathematics Applied II S3

PREREQUISITE: Mathematics Applied I S2 or Mathematics Integrated I S2
CREDITS: 4

COURSE CODE: MT3042APP
COURSE TYPE: Required
TIMETABLE VALUE: 4

Students will perfect their skills of solving equations and inequalities and will create equations to fit problem situations. Problem-solving strategies will be used in real-world scenarios to enable students to master concepts within the appropriate context. This course is a continuation of Mathematics Applied I S2.

COURSE TITLE: Mathematics Business I S3

PREREQUISITE: Mathematics Applied I S2 or Mathematics Integrated I S2
CREDITS: 2

COURSE CODE: MT3061BUS
COURSE TYPE: Required/Elective
TIMETABLE VALUE: 2

For S4 Students ONLY

This course is designed for students who are interested in business and/or personal (home) financing. This course covers the personal applications of mathematical concepts and skills that will be used to solve consumer and job related problems. Also students will explore budgeting and investment techniques.

BY COUNSELLOR APPROVAL ONLY**COURSE TITLE: Mathematics Business II S3**

PREREQUISITE: Mathematics Business I S3
CREDITS: 2

COURSE CODE: MT3592BUS
COURSE TYPE: Required/Elective
TIMETABLE VALUE: 2

S4 Students ONLY

This course continues from Mathematics Business I and is designed for students interested in pursuing a business major. Students will apply mathematics to actual business practices and procedures.

COURSE TITLE: Mathematics Advanced S4

PREREQUISITE: Mathematics Integrated II or Mathematics Applied II with at least a B standing and Recommendation from your Mathematics teacher

CREDITS: 4

COURSE CODE: MT4040ADV

COURSE TYPE: Elective

TIMETABLE VALUE: 4

This course involves a theoretical and in-depth approach to the advanced topics in mathematics. The student is expected to be able to solve problems of a more complex and abstract nature. The focus will be on important concepts in mathematics and how they can be applied to solve a wide variety of real world problems encountered in daily life and careers. Topics to be covered include: functions, trigonometry, sequences and series, rates and area, conic sections and matrices.

COURSE TITLE: Mathematics Applied IIIA S4

PREREQUISITE: Mathematics Integrated II or Mathematics Applied II

CREDITS: 2

COURSE CODE: MT4053APA

COURSE TYPE: Elective

TIMETABLE VALUE: 2

This course offers algebra and geometry concepts in context. Teachers will use authentic situations to encourage students to connect mathematics to the workplace and everyday life. Students will be given the opportunity to read, interpret and apply mathematical principles, reasoning and appropriate supporting explanations. Technology will be used.

Trigonometry will be introduced and students will be encouraged to apply principles of statistics. This course meets the needs of students who are contextual learners and abstract concepts are offered through concrete experiences. Real-world and workplace situations are used as settings for investigations. Processes such as problem solving, communicating, reasoning and connecting are embedded throughout the course. The mathematical content is practical and relevant.

COURSE TITLE: Mathematics Applied IIIB S4

PREREQUISITE: Mathematics Integrated II or Mathematics Applied II

CREDITS: 2

COURSE CODE: MT4064APB

COURSE TYPE: Elective

TIMETABLE VALUE: 2

This course is a continuation of Mathematics Applied IIIA S4.

RECOMMEND ADVANCE MATH

COURSE TITLE: Introductory Calculus

PREREQUISITE: Mathematics Integrated II S3 with a minimum grade of C and teacher recommendation

CREDITS: 2

COURSE CODE: MT4480CAL

COURSE TYPE: Elective

TIMETABLE VALUE: 4

This course is designed to introduce students to the mathematics of motion and change. It is expected that they will have studied advanced mathematical concepts and the emphasis will be placed on using limits to test functions for continuity. Students will be assisted in gaining conceptual understanding by reviewing real life situations through graphical, numerical and algebraic representations of limits, derivatives and integrals. This course is appropriate for students who wish to pursue a career in a mathematical or scientific field.

Physical Education

COURSE TITLE: Physical Education I S1
 PREREQUISITE: **None**
 CREDITS: **2**

COURSE CODE: **PE1111PED**
 COURSE TYPE: **Required**
 TIMETABLE VALUE: **2**

This course will offer instruction in a wide variety of physical activities. Students will participate in team sports, individual and dual sports, aquatics, physical fitness, and recreational activities. Emphasis will be placed on developing physical fitness through a variety of methods.

COURSE TITLE: Physical Education II S2
 PREREQUISITE: **Physical Education I S1**
 CREDITS: **2**

COURSE CODE: **PE2252PED**
 COURSE TYPE: **Required**
 TIMETABLE VALUE: **2**

This course will be taught to students who have completed S 1 in Physical Education. The course offers instruction to an intermediate level in a variety of physical activities. Students will participate in team sports, individual and dual sports, recreational activities, fitness and aquatics.

COURSE TITLE: Physical Education III S3
 PREREQUISITE: **Physical Education II S2**
 CREDITS: **2**

COURSE CODE: **PE3403PED**
 COURSE TYPE: **Required**
 TIMETABLE VALUE: **2**

With this program S3 students are exposed to leisure time activities and the importance of staying physically fit throughout ones lifetime. Activities such as golf, recreation games (table tennis and foose ball) and bowling are a part of this program. Students are also given an opportunity to coach and umpire one sport such as Netball, softball, soccer, or cricket. The program also provides students with an opportunity to write and run tournaments, learn how to take charge of the game situation and put into play all skills that have been learned over the years for Bermuda's national sports.

COURSE TITLE: Physical Education IV S4
 PREREQUISITE: **Physical Education II S2 / or S3**
 CREDITS: **2**

COURSE TITLE: **PED4304PED**
 COURSE TYPE: **Elective**
 TIMETABLE VALUE: **2**

This course will be taught to any student who has completed S2 or S3 with a grade of C+ or better in Physical Education. The course offers instruction to an **advanced level** in a variety of physical activities. Students participate in team sports and dual and individual sports as they pertain to lifetime fitness and recreation. Students enrolled in this course should demonstrate a "love" for Physical Education, as there is also an independent study module, and students need to be motivated to work on their own.

Science

COURSE TITLE: Science I S1

PREREQUISITE: None

CREDITS: 4

COURSE CODE: SC1041SCI

COURSE TYPE: Required

TIMETABLE VALUE: 4

This course is intended to broaden and strengthen students' understanding of scientific concepts and habits of mind introduced during middle and primary school science programmes. The goals of science education - history and nature of science, scientific inquiry, positive attitudes and advocacy for the environment - will provide the framework for the continued study of topics in life, physical, and earth sciences. Students will be engaged in laboratory work that includes analysis and communication of results. The course will also relate science to everyday experiences.

COURSE TITLE: Science II S2

PREREQUISITE: Science I S1

CREDITS: 4

COURSE CODE: SC2052SCI

COURSE TYPE: Required

TIMETABLE VALUE: 4

Science II is designed to give senior school students additional preparation prior to choosing from the variety of science courses, which lead towards their career goals in college, or the world of work. This course is the second of the two foundation courses. The course is designed to continue the development of problem solving and laboratory skills through the study of six topics in physical and life and earth sciences.

ELECTIVE SCIENCE REQUIREMENT ONLY – NO S4 FOLLOW UP

COURSE TITLE: Human Biology S3

PREREQUISITE: Science II S2

CREDITS: 4

COURSE CODE: SC3140HUM

COURSE TYPE: Elective

TIMETABLE VALUE: 4

This biology course provides insight into the functioning of the human body. Students will revisit cell structure and processes as they study the nutritional, digestive, excretory, respiratory, cardiovascular, reproductive and sensory systems. The impact of disease, the environment, licit and illicit drugs on the human body will be examined.

COURSE TITLE: Biology I S3

PREREQUISITE: Science II S2

CREDITS: 4

COURSE CODE: SC3101BIO

COURSE TYPE: Elective

TIMETABLE VALUE: 4

This first senior biology course builds on life science modules in Science I and II. This course provides an insight into biodiversity exchange of energy and matter in organisms, the cycling of matter and energy flow in nature. It is a required course for students who wish to study biology at college level and a prerequisite for Biology II. The essential development of reasoning and problem solving skills is enhanced by laboratory investigations and class discussions.

COURSE TITLE: **Biology II S4**
 PREREQUISITE: **Biology 1 S3**
 CREDITS: 4

COURSE CODE: **SC4092BIO**
 COURSE TYPE: **Elective**
 TIMETABLE VALUE: 4

Biology II is a **college preparatory course** geared to students who intend to pursue the study of biological sciences at college level. It is a more rigorous course than Biology I and it expands on the treatment of many topics introduced in earlier courses. It is strongly recommended that students have completed or be currently taking a senior chemistry course, as the principles of biochemistry will be included. Success in this senior level biology course typically requires good reasoning and mathematical skills. Laboratory activities, discussion and research are an integral part of this course. An individual project is a required part of the assessment in this senior course.

COURSE TITLE: **Chemistry I S3**
 PREREQUISITE: **Science II S2, Math S2**
 CREDITS: 4

COURSE CODE: **SC3111CHM**
 COURSE TYPE: **Elective**
 TIMETABLE VALUE: 4

This introductory chemistry course provides a foundation for students who intend to study advanced courses in chemistry and biology in preparation for careers in health sciences and engineering. It builds on physical science principles such as matter, bonding and chemical reactions met in the two senior foundation science courses. The introduction to the mole and chemical calculations will require students to apply algebraic methods to equations. Students will be actively involved in the development of chemical concepts through laboratory experiences, demonstrations and multimedia. References will be made to careers involving chemistry.

COURSE TITLE: **Chemistry II S4**
 PREREQUISITE: **Chemistry 1 S3, Math S3**
 CREDITS: 4

COURSE CODE: **SC4102CHM**
 COURSE TYPE: **Elective**
 TIMETABLE VALUE: 4

This is a **college preparatory course** designed to prepare students for smooth entry to introductory college chemistry courses. It is intended for students who have a strong background in mathematics and science. Chemistry II further develops concepts such as atomic structure, organic chemistry and chemical reactions. Equilibrium, energy changes and red-ox reactions are introduced for the first time. There is an emphasis on laboratory investigations. References are made to societal applications and opportunities for related careers. An individual project is a required part of the assessment in this senior course.

ELECTIVE SCIENCE REQUIREMENT ONLY

COURSE TITLE: **Environmental Science I S3**
 PREREQUISITE: **Science II S2**
 CREDITS: 4

COURSE CODE: **SC3131ENV**
 COURSE TYPE: **Elective**
 TIMETABLE VALUE: 4

Environmental Science is the study of the interrelationships of organisms and their environment. This course extends students understanding about the environment that was studied during senior school foundation science courses. Some of the areas covered include methods of environmental science, how ecosystems work, various biomes and the impact of people on the environment. Particular reference will be made to issues of importance to Bermuda. Field-work and laboratory investigations are essential components of this course.

ELECTIVE SCIENCE REQUIREMENT ONLY**COURSE TITLE: Environmental Science II S4****PREREQUISITE: Environmental Science I S3****CREDITS: 4****COURSE CODE: SC4112ENV****COURSE TYPE: Elective****TIMETABLE VALUE: 4**

Concepts from Environmental Science I are expanded in this course. Topics studied include energy resources and uses; earth's physical resources such as water, minerals and soils; and biotic resources including food production. Students will examine issues of local and international importance such as land conservation, environmental health hazards, fisheries, eco-tourism and local and global strategies used to protect the environment. An individual project is a required part of the assessment in this senior course.

ELECTIVE SCIENCE ONLY – NO S4 FOLLOW UP**COURSE TITLE: Marine Science S3****PREREQUISITE: Science II S2****CREDITS: 4****COURSE CODE: SC3160MAR****COURSE TYPE: Elective****TIMETABLE VALUE: 4**

This course is intended to be an integrated study of marine habitats. An integrated approach to science will be used using the ocean around us. Topics covered include the geology of the ocean, the ecology and biology of the coral reef, waves and ocean chemistry. Application of these topics will be made to current issues (e.g. Fisheries, aqua-culture, etc.).

COURSE TITLE: Physics I S3**PREREQUISITE: Science II S2, Math S2****CO-REQUISITE: Math S3****CREDITS: 4****COURSE CODE: SC3171PHY****COURSE TYPE: Elective****TIMETABLE VALUE: 4**

This course is designed to provide students with a sound foundation of principles and techniques of physics. It builds upon concepts developed in physical science modules of Science I and Science II. It is a prerequisite for Physics II and is recommended for students who wish to study sciences, engineering and mathematics at the college level. Opportunities for careers in physics will be presented. An S3 mathematics course is strongly recommended.

COURSE TITLE: Physics II S4**PREREQUISITE: Physics I S3, Math S3****CO-REQUISITE: Math S4****CREDITS: 4****COURSE CODE: SC4122PHY****COURSE TYPE: Elective****TIMETABLE VALUE: 4**

This is a **college preparatory course** intended for students who will study physics and related courses upon completion of senior school. Students will meet major concepts of physics and apply them to specific problems. The ability to understand simple algebraic, trigonometric and graphical relationships is essential to successful completion of this course. The laboratory component will stress science processes and skills and career opportunities will be highlighted. An individual project is a required part of the assessment in this senior course.

Please note the following:

Any S3 student who failed the S2 general science course can do the S2 course PLUS pick up any one of the following S3 science courses at the same time, (this is obviously for S3 students):

- Marine Science
- Environmental I

Social Studies

COURSE TITLE: Bermuda Social Sciences S1

PREREQUISITE: None

CREDITS: 4

COURSE CODE: SS1050SOS

COURSE TYPE: Required

TIMETABLE VALUE: 4

This course teaches students that Social Studies is more than one discipline. The various fields are Geography, Economics, Political Science, Sociology, Psychology and Anthropology. The course opens with an introduction to Sociology, Anthropology, Psychology, and Political Science. Emphasis and depth are covered in the disciplines History, Geography and Civics as they apply to Bermuda.

COURSE TITLE: World History S2

PREREQUISITE: Bermuda Social Sciences S1

CREDITS: 2

COURSE CODE: SS2060HIS

COURSE TYPE: Required

TIMETABLE VALUE: 2

This course emphasizes the major civilizations with some attention to other societies. Students will give attention to themes such as gender roles, technological innovation, the evolution of social classes, environmental transformation, the growth of bureaucracy, codification of law and the structure and types of government. This type of focus will give students multiple bases of comparison. In addition, three transformations of modern times will also be emphasized: the democratic revolution, the industrial and technological revolution and the modern growth and mobility of populations.

COURSE TITLE: Physical Geography S2

PREREQUISITE: Bermuda Social Sciences S1

CREDITS: 2

COURSE CODE: SS2451GEO

COURSE TYPE: Elective

TIMETABLE VALUE: 2

This course will cover a wide variety of geographical areas, with a goal of stimulating interest and developing understanding. Key questions about the physical geography characteristics, the significance of locations and patterns will be asked and answered. The student will be introduced to various types of geography available for further study, including geology, coral reefs, beaches, cliffs and natural vegetation. Special emphasis will be placed on the unique habitation of Bermuda, especially as it relates to preservation. Skills such as problem solving, decision-making, planning, mapping, social participation, interpersonal relationships and cultural affairs will be introduced and developed.

COURSE TITLE: 20th Century in Revolution S2

PREREQUISITE: Bermuda Social Sciences S1

CREDITS: 2

COURSE CODE: SS2460TCR

COURSE TYPE: Elective

TIMETABLE VALUE: 2

This course is a focused, critical examination of the twentieth century world and all of its revolutionary changes. Divided into four (4) modules, the course will assist students in developing global awareness of an ever changing and dynamic world. "The Rise of Dictators", "Cause and Conflict", "Africa and the Diaspora: The Road to Independence," and "South Africa and Apartheid" will come alive with film, readings, and energetic discussion. Students will view and analyze videos that assist in the understanding of relevant subject matter; being creative in showing their understanding of particular concepts, thinking analytically; defending and justifying their positions orally and in written form on key issues related to topics studied.

COURSE TITLE: American History S3

PREREQUISITE: World History + 2 credits in S2 Social Studies

CREDITS: 4

COURSE CODE: SS3580USA

COURSE TYPE: Elective

TIMETABLE VALUE: 4

This course focuses on understanding cause and effect relationships and on developing an understanding of multiple causation, and the knowledge that those things are as they are for many reasons. Such historical study leads beyond the mere remembering of unexamined isolated facts toward the ability to detect trends, analyze movements and events and develop a sense of history. The program of study examines the colonies, including early settlements and government. It continues with the crisis in the colonies, examining tax problems, the desire for self-determination and the constitution and formation of the United States of America as a country. It concludes with a look at the economies of the northern and southern regions, extensively examines slavery and the civil war and ends with a focus on reconstruction and issues facing black Americans.

COURSE TITLE: Human Geography S3

PREREQUISITE: 200 Level Social Studies

CREDITS: 4

COURSE CODE: SS3570GEO

COURSE TYPE: Elective

TIMETABLE VALUE: 4

This course will cover a wide variety of geographical areas. The purpose is to stimulate and develop a deep understanding in Human Geography. Key topics in the areas of population, settlement, demography, planning and migration are to be examined. Dynamic insights will be experienced as students answer key questions related to settlement sites, functions and planning. Students should expect to be intellectually stimulated and use critical thinking skills to analyze and offer solutions to problems related to settlements, transportation and commerce. Valuable, life-long skills will be acquired pertaining to problem solving, decision-making, planning, mapping, social participation and interpersonal relationships. Fieldwork and teacher planned inquiries will be developed as a means of assessment. Instructional technologies such as the Internet, mapmaker, survey conductor, digital imagery and GIS will be used to produce the fieldwork product.

GCSE IN THIS COURSE IS AVAILABLE AT TEACHERS RECOMMENDATION

COURSE TITLE: Comparative Religions and Ethics S3

PREREQUISITE: World History + 2 credits in S2 Social Studies

CREDITS: 4

COURSE CODE: SS3180REL

COURSE TYPE: Elective

TIMETABLE VALUE: 4

This course examines the philosophies of traditional African religion, Judaism, Christianity, Islam, Hinduism, Buddhism and Confucianism. Doctrines and beliefs are given attention in this comparative study. Each examination begins with a chronology of events for the religion being explored. Special attention and emphasis will be made to the role these religions play in Bermuda.

COURSE TITLE: Introduction to Africa, S4

PREREQUISITE: 4 Social Studies credits at S3

CREDITS: 2

COURSE CODE: SS4350IAF

COURSE TYPE: Elective

TIMETABLE VALUE: 2

This is a bold look at African history and African people's origin and development in a historical and topical context. The modules will answer some current questions because the historical background will be looked at in an honest and creative manner. This process will open the student to a perspective of world history, which considers how Africa related and contributed to it. The teacher of this course should maintain that all history is a current event, because every event in history, in some way, still affects all humankind.

COURSE TITLE: Preserving Our Heritage – S4

PREREQUISITE: 200 Level Computer Science, 300 Level English Language and Literature
300 Level Social Studies

CREDITS: 2

COURSE CODE: SS4130HER

COURSE TYPE: Elective

TIMETABLE VALUE: 2

This is a unique course facilitated by the use of instructional technology. Students will be required to preserve a topic of Bermuda's heritage in the form of a research paper and web page. Good computer skills are necessary as students will learn PowerPoint, Inspiration, digital photography and video, photo essay development, CD burning, Photoshop, Studio DV, scanning, web page construction, and the use of interviewing and the Internet for research. Numerous field trips, interviewing of subjects and library visits will be necessary for successful completion of this course. Group work (co-operative learning) will develop interpersonal skills, problem solving, data collection, and decision making around complex technological equipment.

COURSE TITLE: Economic Geography – S4

PREREQUISITE: 200 Level Mathematics, 300 Level Human Geography

CREDITS: 2

COURSE CODE: SS4453GEO

COURSE TYPE: Elective

TIMETABLE VALUE: 2

This course will cover a variety of economic geographical topics. The purpose is to stimulate and develop a deep understanding in Economic Geography. Key topics in the areas of farming, industry, energy, transport, communications and development are to be examined. Dynamic insights will be experienced as students answer key questions related to economic development. Students should expect to be intellectually stimulated and use critical thinking skills to analyze and offer solutions to problems related to industry and development. Valuable, life-long skills will be acquired pertaining to problem solving, decision-making, planning, mapping, social participation and interpersonal relationships. Teacher planned inquiries will be developed as a means of assessment. Instructional technologies such as the Internet, mapmaker, survey conductor, digital imagery and GIS will be used to produce the product.

GCSE COURSES

General Certificate of Secondary Education (GCSE). This is a UK developed course for students between the ages of 15 - 16. It's a two year course culminating in a moderated course work component and examination, the weightings of which vary from subject to subject. The GCSE is accepted as a standard to progress to the "Advanced" level certificate for University. UK Universities would normally require seven, eight, or nine GCSE's for entry to higher level courses.

COURSE TITLE: GCSE Art and Design

PREREQUISITE: Visual Art Teacher recommendation and
S1 Visual Art in Society
CREDITS: 8

COURSE CODE: 3201

COURSE TYPE: Elective
TIMETABLE VALUE: 8

This 2 Year course is designed to develop a varied range of art skills, among them students will develop a working knowledge of materials, practice, and technology of art and design. Students will develop the skills to investigate, analyze and experiment using art, craft and design. This course is structured in 2 parts; 60 % course work and 40% examination. The exam is a 10hr practical exam in which students can work in any medium to a choice of a chosen theme set by the exam board. The coursework and exam are moderated by an external exam board.

Students will also receive credits for Drawing, Painting and Printed Works and Three Dimensional Comprehensive during the first year; and Drawing and Painting and Ceramics in the second year on successful completion.

COURSE TITLE: GCSE English S2

PREREQUISITE: Teacher recommendation S1 English
CREDITS: 4

COURSE CODE: 3702

COURSE TYPE: Elective
TIMETABLE VALUE: 4

This is a two year course. It consists of two subjects – English Language and English Literature. Both subjects are divided into three sections.

English Language: Reading and Directed Writing (Students read a wide variety of texts and are encouraged to analyze structure, presentation of information, writer's intention, etc. An important module takes them through précis skills. There are opportunities to study and write in various forms and styles: letters, reports, speeches, scripts for radio and television, stories, expressive developments of an idea etc.), Continuous Writing (Students study the demands and techniques of the main prose composition styles: narrative, description, argument, opinion, fantasy, essay, etc.) and Usage (Throughout the course students develop control of grammatical structures, an awareness of the reader and the task in hand, a sense of appropriate style, suitable range of vocabulary and competence in punctuation, paragraphing and spelling).

English Literature: Knowledge with Understanding (Students read to acquire a first-hand knowledge of the set texts chosen, and an understanding of suitable literary terms.), Critical Interpretation (Students are helped to read more deeply. As the course progresses they will gain confidence in their awareness of themes, structure, attitudes, characterization etc.) and Judgement and Personal Response (Throughout the course students are shown how to formulate and communicate an informed personal response, supporting evaluations with reference to the text.).

COURSE TITLE: GCSE Graphic Products
PREREQUISITE: Teacher recommendation S2 Graphics
CREDITS: 4

COURSE CODE: 3543
COURSE TYPE: Elective
TIMETABLE VALUE: 4

This course is normally a two-year course. Students in the first year will learn skill-building exercises using both traditional drawing methods and computers to produce orthographic drawings and presentation drawings (fully coloured 3 'D' drawings). Students in the second year will devote all of their time to making a graphics product, e.g. board game or child's colouring book. The product must also be accompanied by a design folio, which takes the reader through the detail of the design process from start to finish. The assessment of this course is structured in two parts – 60% marked internally and moderated externally, 40% written exam. The exam body is based in the UK, so students' work will be compared to those standards. The GCSE is an internationally accepted qualification.

COURSE TITLE: GCSE Mathematics S1
PREREQUISITE: Proficiency in Middle level mathematics, at least a C standing in BMAP and at least grade level on Terra Nova Examination.
CREDITS: 4

COURSE CODE: 3301
COURSE TYPE: Elective
 (Student is taking this course instead of Mathematics Foundation)
TIMETABLE VALUE: 4

This course is a two-year programme designed to prepare students to sit the GCSE Mathematics Examination in June of their S2 year or November of their S3 year. Students will develop their understanding of mathematical concepts and will be expected to reason mathematically while exploring and describing real world issues. Students taking this course must submit specified coursework for evaluation by an international board, in addition to a comprehensive final examination at the end of their two years.

COURSE TITLE: GCSE Mathematics S2
PREREQUISITE: GCSE Math S1

COURSE CODE: 3301
COURSE TYPE: Elective
 (Student is taking this course instead of Mathematics Integrated II S3)
TIMETABLE VALUE: 4

CREDITS: 4

This course is the second year of a two-year programme designed to prepare students to set the GCSE Mathematics Examination in June of their S3 year or November of their S4 year. Students will develop their understanding of mathematical concepts and will be expected to reason mathematically while exploring and describing real world issues. Students taking this course must submit specified coursework for evaluation by an international board, in addition to a comprehensive final examination at the end of their two years.

COURSE TITLE: GCSE Physical Education Games
PREREQUISITE: S1 Health, S1 Physical Education teacher recommendation
CREDITS: 4

COURSE TITLE: GCSE 3588
COURSE TYPE: Elective

This one-year course, offered in S2, will offer theoretical and practical instruction in Physical Education and will prepare students to sit the GCSE P.E. examination in May of their S2 year. Issues such as Health, Fitness and Factors affecting Performance and Individual Participation will be investigated and discussed. Students will also participate in Team and Individual Game activities. Emphasis will be placed not only on performing within game activities but to understand and applying rules, the ability to analyze other performances and adopting different roles such as referee, score keeper and coach.

COURSE TITLE: GCSE Business Studies

Credits: 4

COURSE CODE: GCSE 3139**COURSE TYPE: Elective****TIMETABLE VALUE: 4**

This is a one-year course, offered in S2 to student with 85% or higher in Business Essentials 1. The assessment comprises of Written Paper 1 75% of the marks, and course work 25% of the marks or Written Paper 2 25% of the marks. The assessment objectives include: knowledge and understanding, application, analysis, and evaluation. The GCSE Business Studies will incorporate the business aspects of organizations within their economic, political and social contexts. Business studies involve the investigation of how enterprise adds value by organizing the production of goods and services. The performance of business is studied from a range of perspectives. Economics is one of the several disciplines which contributes to the understanding and analysis of business behaviour. Students will also gain BSC credits for Business Essential II and Marketing upon successful completion of this course.

Students will:

- (a) Make effective use of relevant terminology, concepts and methods, and recognize the strengths and limitations of the ideas used.
- (b) Apply their knowledge and critical understanding to current issues and problems in a wide range of appropriate contexts.
- (c) Distinguish between facts and opinions and evaluate qualitative and quantitative data in order to help build arguments and make informed judgments.
- (d) Appreciate the perspectives of a range of stakeholders in relation to the environment, individuals, government and enterprise.
- (e) Understand the dynamics of business activity. The understanding must be rooted in current business theory and practice and must reflect the integrated nature of organizations and their decision-making processes.

COURSE TITLE: GCSE Science S1

PREREQUISITE: Proficiency in Middle Level Science, at least a C standing in BMAP and at least grade level on Terra Nova Examination

CREDITS: 4**COURSE CODE:****COURSE TYPE: Elective**

(student is taking this course instead of Science 1 and Science 2)

TIMETABLE VALUE: 4

This course is a two-year programme designed to prepare students to sit the GCSA Science Examination in June of their S2 year. Course work provides students to be engaged in problem solving and laboratory analysis in the areas of life, physical and earth science. Students will take 2 modular tests 3 times per year. Students taking this course must submit specified coursework for evaluation by an international board, in addition to a comprehensive final examination at the end of their two years.

COURSE TITLE: GCSE Science S2**PREREQUISITE:** GCSE Science S1**CREDITS: 4****COURSE CODE: SC2052SCI****COURSE TYPE: Elective****TIMETABLE VALUE: 4**

(Students may take this course instead of Science 1 and Science 2)

This course is the second year of a two-year programme designed to prepare students to sit the GCSE Science Examination in June of their S2 year. Course work provides students to be engaged in problem solving and laboratory analysis in the areas of life, physical and earth science. Students will take 2 modular tests 3 times per year. Students taking this course must submit specified coursework for evaluation by an international board, in addition to a comprehensive final examination at the end of their two years.

COURSE TITLE: **GCSE Human Geography S3**

PREREQUISITE: 200 Level Social Studies

CREDITS: 4

COURSE CODE: SS3570GEO

COURSE TYPE: **Elective**

(Students may take this course instead of S3 Human Geography)

TIMETABLE VALUE: 4

The GCSE course offered for Human Geography is a one year short course offered by AQA. It units include looking at settlement, agriculture, resource management, rivers, coasts, plate tectonics and glaciers. The course focuses on the relationship between people and the natural environment and offers the opportunity to understand many current issues that the world faces. Students have to demonstrate an understanding of geographical theory and skills including map reading. They are examined by completing a piece of fieldwork and by a final GCSE exam.