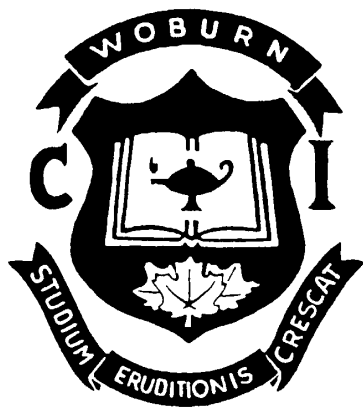


**WOBURN
COLLEGIATE
INSTITUTE**

**SUPPLEMENT
TO
“CHOICES”
GRADE 12**



2010 – 2011

WOBURN COLLEGIATE INSTITUTE
SCHOOL SUPPLEMENT TO “CHOICES”
GRADE 12
2010 – 2011 COURSE SELECTIONS

Parents and Students:

Choosing your courses needs to involve a great deal of thought and consideration as it may affect your future plans. To help you with this process you will be given “Choices”, a document that outlines information that will assist you with the course selection process. The information in “Choices” is also available at www.tdsb.on.ca. Your parents and teachers will also be asked to make recommendations and you may, of course, speak to any Guidance Counsellor for advice.

Not all courses described in “Choices” are available at Woburn and there are a few available at Woburn that are not described in “Choices”. Thus, this supplement will assist you in making wise, appropriate choices for September 2010.

Please note that throughout the supplement, where an asterisk (*) accompanies a course code, there is a description of that course in this supplement.

- a “6” designation in a course code as the sixth character, is for Gifted programs only; descriptions are contained in a separate Gifted Course booklet
- an “8” designation in a course code is for English as a Second Language/English Literacy Development

Our Student Services Department has counsellors who will assist you in your planning of educational and career goals. Please do not hesitate to consult with them. Have your questions ready for them when they visit classrooms in the next few weeks.

Please take care to make informed decisions that will guarantee school success in 2010 – 2011

WOBURN ADMINISTRATION and
STUDENT SERVICES DEPARTMENT

ANCILLARY FEES

Parents and students should note that some courses have fees attached to them to offset costs specific to the special nature of these courses. These fees are determined by the Department Heads in consultation with the Administration and are reviewed annually.

The Administration will determine the time frame for the collection of these fees with the intent to stagger their collections throughout the year. Should the payment of such fees pose a financial hardship, students should speak with their teacher privately or to a guidance counsellor. Options to a single payment might include payment in instalments or payment at another time or student assistance in lieu of a fee or another suitable arrangement.

COURSES OFFERED AT YEAR 4

Students are expected to select a program consisting of a minimum of **SIX** courses, including a core ENGLISH. Where a student has not yet obtained 24 credits, he/she is required to select **SEVEN** courses. **REMINDER:** Check the diploma requirements, outlined in “Choices” or the front of your agenda, to make sure that you have chosen the appropriate courses to meet graduation requirements.

| Subject | Level | Code | Preparation |
|---|--|---------------------------------------|--|
| ENGLISH English | University Gifted College Workplace | ENG4U1 ENG4U6 ENG4C1 ENG4E1 | ENG3U1 ENG3U6 ENG3C1/U1 ENG3E1 |
| Studies in Literature | University | ETS4U1 | ENG3U1 |
| The Writer’s Craft | University | EWC4U1 | ENG3U1 |
| Literacy Course | Open | OLC4O1 | |
| ESL | Level 2 (2 Credit) | ESLBO8 & GLS108 | ESLA08 |
| | Level 3 | ESLCO8 | ESLBO8 |
| | Level 4/5 (2 credit) | ESLD08 & ESLE08 (DEESL-semestered) | ESLC08 |
| | Level 5 | ESLE08 | ESLD08 |
| MATHEMATICS Advanced Functions - Semestered Semestered Non-semestered | University Gifted University | MHF4U1 MHF4U6 MHF4U2 | MCR3U1 MCR3U6 MCR3U1 |
| Calculus and Vectors (Semestered FUNCAL FUNCA6) | University Gifted | MCV4U1 MCV4U6 | MCR3U1 & Co- Req. MHF4U1 MCR3U6 & Co- Req. MHF4U6 |
| Mathematics of Data Management | University | MDM4U1 | MCR3U1/ MCF3M1 |
| Foundations for College Math | College | MAP4C1 | MBF3C1/ MCF3M1 |
| Math for Work and Everyday Life | Workplace | MEL4E1 | MBF3C1/ MEL3E1 |

- **Description of course at the end of supplement**

| Subject | Level | Code | Preparation |
|--|--------------------|--|---|
| ARTS | | | |
| Dance | University/College | ATC4M1 (\$5 fee) | ATC3O1 |
| Dance – Performance Practice | University/College | ATP4M1 (\$5 fee) | ATC3O1 or by Audition |
| Dramatic Arts | University/College | ADA4M1 | ADA3M1 |
| Dramatic Arts - Production | University/College | ADD4M1 | ENG3U/C & interview |
| Media Arts – Film/Video | University/College | ASM4M1* (\$20 fee) | ASM3O/M1 |
| Guitar Music | University/College | AMG4M1 (\$20 fee) | AMG3M1 |
| Instrumental Music – Band | University/College | AMI4M1 (\$15 - \$10 AMI4M6 for student who own instruments) | AMI3M1/3 AMI3M6 |
| Stage Band | University/College | AMH4M1 (\$15 fee- \$10 for students who own instruments) | AMH3M1 |
| Music – Vocal | University/College | AMV4M1 (\$15 fee) | AMV3M1 |
| Visual Arts | University/College | AVI4M1 (\$20 fee) | AVI3O |
| Digital Photography | University/College | AWQ4M1* (camera required) | ASM3O/AVI3O |
| Visual Arts Sculpture | University/College | AWP4M1 (\$20 fee) | AVI3O1 |
| BUSINESS | | | |
| Communications in the World of Business & Technology | Open | EBT4O1 | Any Grade 10/11 English course |
| International Business Fundamentals | University/College | BBB4M1 | Any Gr. 11 or 12 U or M level course in Canadian & World Studies, English or Social Sci. & Humanities |
| Business Leadership Management Fundamentals | University/College | BOH4M1 | Strongly recommended |
| Financial Accounting Principles | University/College | BAT4M1 | BAF3M1 |

| Subject | Level | Code | Preparation |
|---|----------------------|---|--|
| INTERDISCIPLINARY STUDIES- students may take only one interdisciplinary studies course | | | |
| A Scientific Approach to the Meaning of It All (IDC4UP) | University | SCIALL (1 credit)* This is taken in the computer science dept. | SPH3U1/6 or MCR3U1/6 or ICS3M1 recom. |
| Media Studies (IDC4U1) | University | IDC4U1 | ENG3U1/C1 |
| Financial Securities (IDC4UF) | University | FINSEC* | Any Gr 11 or 12U or M level course in Canadian & World Studies, English or Social Sci. & Humanities Strongly recommended |
| GUIDANCE CAREER & COOPERATIVE EDUCATION | | | |
| Teaching Assistants | Open | GPP3OP* | See guidance |
| Co-op (2 credit) | Open | COOP2* | Interview |
| Co-op (4 credit) | Open | COOP4* | Interview |
| Repeat Co-op (2 credit) | Open | RCOOP2* | Interview |
| Repeat Co-op (4 credit) | Open | RCOOP4* | Interview |
| CANADIAN & WORLD STUDIES | | | |
| Analyzing Current Economic Issues | University Gifted | CIA4U1 CIA4U6 | Any Grade 11 or 12 <u>University or university/college</u> level course in Canadian & World Studies, English or Social Sci. & Human. |
| Canadian & International Law | University | CLN4U1 | Any Grade 11 or 12 <u>University or university/college</u> level course in Canadian & World Studies, English or Social Sci. & Human. |
| Canadian & World Issues: A Geographic Analysis | University Gifted | CGW4U1 CGW4U6 | Any Grade 11 or 12 <u>University or university/college</u> level course in Canadian & World Studies, English or Social Sci. & Human. |
| Canadian & World Politics | University | CPW4U1 | Any Grade 11 or 12 <u>University or university/college</u> level course in Canadian & World Studies, English or Social Sci. & Human. |
| World History: The West & the World | University Gifted | CHY4U1 CHY4U6 | Any Grade 11 or 12 <u>University or university/college</u> level course in Canadian & World Studies, English or Social Sci. & Human. |
| World Geography: Urban Patterns & Interaction | College | CGU4C1 | Any Grade 11 or 12 <u>University or university/college</u> level course in Canadian & World Studies, English or Social Sci. & Human. |

| Subject | Level | Code | Preparation |
|---|---------------------------------|--|--|
| COMPUTER SCIENCE Computer Science | University Problem Solving | ICS4U1 ICS4UP | ICS3U1 ICSU3/P |
| Computer Programming | College | ICS4C1 | ICS3C1 |
| Scientific Approach to the Meaning Of It All (IDC4U1) | University | SCIALL* | SPH3U1/6 or MCR3U1/6 or ICS3M1 recom. |
| HEALTH & PHYSICAL ED. Large Group Activities | Open (female) Open (male) | PAL4OF PAL4OM | None None |
| Personal Fitness Activities (Weight Training) | Open (female) Open (male) | PAF4OF (\$20 fee) PAF4OM | None None |
| Small Group Activities (Racquet Sports) | Open (co-ed) | PAI4O1 (\$75 fee) | None |
| Recreation & Fitness Leadership | Open (co-ed) | PLF4C1 | See physed |
| | Open(co-ed) | PLF4CV* (Volleyball focus) | See phys ed. |
| | Open (co-ed) | PLF4CB* (basketball focus) | See phys ed. |
| Exercise Science | University (co-ed) | PSE4U1 | Any grade 11 U/M Science or a senior phys-ed |
| INTERNATIONAL LANGUAGES Spanish | University | LWSDU1 (\$25 fee) | LWSCU1 |
| French | University Gifted | FSF4U1 (\$12 fee) FSF4U6 (\$12 fee) | FSF3U1 FSF3U6 |
| SCIENCE Biology | University Gifted | SBI4U1 SBI4U6 | SBI3U1 SBI3U6 |
| Chemistry | University Gifted College | SCH4U1 SCH4U6 SCH4C1 | SCH3U1 SCH3U6 SNC2P/D |
| Physics | University Gifted College | SPH4U1 SPH4U6 SPH4C1 | SPH3U1 SPH3U6 SNC2P/D |

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| SOCIAL SCIENCES & THE HUMANITIES The Fashion Industry | Open | HNB4O1 | None |
| Parenting & Human Develop. | Workplace | HPD4E1 | None |
| Food & Nutrition Sciences | University/College | HFA4M1 | Any gr. 11 or 12 <u>university or university/college</u> course in Social Sciences & Humanities, English or Canadian & World Studies |
| Philosophy: Questions & Theories | University Gifted | HZT4U1 HZT4U6 | |
| Individuals & Families in a Diverse Society | University/College | HHS4M1 | |
| Challenge & Change in Society | University/College | HSB4M1 | |
| TECHNOLOGY Electronics – Computer Engineering Technology | University/College | TEL4M1* (\$10 fee) | TEL3M1/TEJ3M1 |
| Computer Engineering Technology | University/College | TEJ4M1* (\$10 fee) | TEJ3NT/TEL3M1 |
| Technology Design - Robotics | University/College | TDR4M1* | TDR3M1 |
| Technological Design in the 21 st Century | Open | TDJ4O1* | TDJ3O1 |
| Technological Design Mechanical & Industrial Design | University/College | TDM4MI* | TDR31/TDM3U1 |
| Transportation Technology | Workplace | TTJ4E1* | TTJ3O1 |
| Auto Technology | College | TTA4C1* | TTA3C1 |

TEACHING ASSISTANT PROGRAM

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| GPP3OP | This course is designed for the student interested in pursuing a career in Teaching or a helping profession. Curriculum topics include: learning styles, multiple intelligence, communication skills, collaborative learning, conflict resolution, and lesson planning. Students will apply this new knowledge by assisting a classroom teacher at Woburn. ADMISSION IS LIMITED. For further information see Ms. Bellstedt in Guidance. |
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CO-OPERATIVE EDUCATION

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| COOP2 (2 Credit) COOP4 (4 Credit) Repeat co-op RCOOP2 | This program involves practical experience outside the classroom with an in-school component. You may participate in Co-operative Education through any subject area. Co-operative Education offers the following advantages: |
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| RCOOP4 | <ol style="list-style-type: none"> 1. assists you in making career decisions, 2. helps you develop knowledge, skills and attitudes essential in today's society, 3. allows you first hand insights into the operation of business, 4. allows you to gain work experience required for entrance into various post-secondary programs, 5. offers experience to assist in obtaining part-time employment. <p>For further information, see Mrs. Marshall in Family Studies, Ms. Lloyd in Business, or speak to a Guidance Counsellor.</p> |
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| INTERDISCIPLINARY STUDIES | |
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| <p>Scientific Approach to the Meaning of It All SCIALL (IDC4UP)</p> | <p>“The Meaning of It All” is the title of a book written by Richard Feynman, a Nobel prize winner in physics who tries to discover a deeper meaning of a scientific research and human thought done throughout ages. Most essential questions humans ask are interdisciplinary in nature. Students study various school subjects, and are expected to think and problem solve. But how do humans think? What is the meaning of intelligence? What does it mean to be an independent thinker? Humans specialize in various disciplines in isolation, without seeing a connection between them; without seeing that “the whole is more than the sum of its parts”.</p> <p>These and other issues will be the subject of this interdisciplinary course. Students will explore many global issues from a different than known to them perspective; they will learn in detail how to apply a scientific method to any research, not necessary restricted to science. They will discuss the past, present and future of human research in a holistic approach. Specific examples of interest to students taking the course, not covered by a regular curriculum will allow students to apply skills acquired. Some of the topics explored might include chaos, cosmology, fuzzy logic, the Unified Field theory, Quantum Mechanics, and the past and future of Artificial Intelligence, but the choice will be left up to the students taking the course. Students will look at a variety of unresolved problems that still haunt mankind.</p> <p>Many open-ended assignments, an interdisciplinary approach and a wide variety of learning techniques will be offered ranging from debates, seminars, oral presentations, conducting a long-term inquiry, mind watching, writing research papers and computer programs, and will include extensive reading and using researching and higher-order thinking skills. The course will teach a student to become an independent, critical thinker. As one of the students taking the course said “With a free-forming curriculum, this course has enabled students to go beyond the limits of what is prescribed, and instead explore something meaningful, not only on a personal level, but in a larger, globalized realization as well.”</p> <p>This course combines all the expectations for the Interdisciplinary Studies, Grade 12 with selected expectations from Physics Grade 12, Computer Science Grade 12, World Issues Grade 12 and Philosophy Grade 12</p> <p>Prerequisite: Any of the above listed Grade 11 courses, University Preparation; Enriched or Gifted stream highly recommended.</p> |
| <p>Financial Securities FINSEC (IDC4UF)</p> | <p>This course investigates financial management, capital markets, and ways in which capital is acquired. Students will use diverse skills, resources, and technologies to gather information related to a variety of Canadian and international financial institutions; investigate the conceptual and mathematical foundations of increasing net worth; and examine investment in the stock market (e.g. the risks and safeguards in stock trading, stocks as investments, creating investment portfolios.)</p> |

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| | Students will also analyze the social impact of personal and corporate investment decisions and will learn to solve problems through theoretical investigations, systems thinking approaches and case studies. |
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HEALTH AND PHYSICAL EDUCATION

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| PLF4CV | This course is co-ed. This course focuses on the development of leadership and coordination skills related to volleyball. Students will acquire the knowledge and skills required to plan, organize, and implement volleyball tournaments and related activities. They will also learn how to train for volleyball specifically and promote the value of physical fitness, personal well being, and personal safety to others through mentoring. The course will prepare students for college programs in sports administration, recreation, and leisure and fitness leadership. |
| PLF4CB | This co-ed course focuses on a variety of leadership, character education, administration and healthy lifestyle, skills, predominantly through the medium of basketball. Students will go through a basketball-specific training program, designed to meet the personal needs of each individual, through simultaneously learning how to apply training concepts to self-improvement. They will also learn the necessary officiating and administrative skills to organize and execute major events such as tournaments and interschool athletic home games. Students will be encouraged to develop a personal competence in a variety of movement skills and will be given opportunities to practice goal setting, decision making, social and interpersonal skills. Students will also study the importance of healthy relationships, reproductive health, mental health, values education and personal safety. |

DIGITAL PHOTOGRAPHY

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| AWQ4M1 | <p>In this university level grade 12 course students will receive orientation in the Media Arts Macintosh computer lab and will begin by learning the basics of digital imaging software. Students will then create a series of practical studio projects that include digital image manipulations, compositional techniques, photography as an art form, and the classic themes of photography. In addition, students will learn and develop their skills in critical art analysis and aesthetic judgement. The historical development of photography is also an important part of the course, and students will be expected to produce and present a major ISU project and a major research essay.</p> <p>*Important note: Enrolment in this course is limited. It is strongly recommended that students provide their own digital camera (2 megapixel minimum) and a USB memory storage device (256 MB minimum). In addition, students will be expected to cover the cost of all their digital image output. There is no fee required for this course.</p> <p>Prerequisites: Grade 11 Visual Arts (AVI3M) and/or Grade 11 Media Arts (ASM3O).</p> |
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VISUAL ARTS - FILM/VIDEO

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| AWR 4M1 | This course is a continuation of ASM 3. Students will study the history, theory, and practice of the media (film and video) in relation to cultural and social issues. The emphasis is on practical video production using a variety of visual storytelling approaches such as fictional, documentary, and experimental/art video. |
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INTERDISCIPLINARY STUDIES: MEDIA STUDIES

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| IDC 4U1 and IDC 4O1 | This course emphasizes knowledge and skills that will enable students to understand media communication in the twenty-first century and to use media effectively and responsibly. Through analyzing the forms and messages of a variety of media works and audience responses to them, and through creating their own media works, students will develop critical thinking skills, aesthetic and ethical judgement, and skills in viewing, representing, listening, speaking, reading, and writing. The course focuses on the study of the media (the Internet, sound recording and popular music, television, film, video games) from global and multicultural perspectives. |
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Computer Studies

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| ICS4U3 | Computer Science - Problem Solving, Grade 12 University Preparation In addition to the concepts taught in ICS4U, this course will extend student knowledge of algorithms and more sophisticated programming concepts. Peer networking application development, elements of graph theory and artificial intelligence are among the additional concepts that will be explored throughout the course. Prerequisite: ISC3U3 |
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TECHNOLOGICAL EDUCATION

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| TEL3/4M1 Computer Engineering Technology - Electronics | Students will be given the opportunity to develop and apply practical skills to assemble, test, repair, and maintain various digital and analog electronic systems. |
| TDM3/4M1 Technological Design – Mechanical& Industrial Design | Students will apply computer-assisted design (CAD) and manufacturing (CAM) techniques to a variety of mechanical and industrial design problems. |
| TDR3/4M1 Technological Design – Robotics and Control System Design | Students use a variety of control systems, such as pneumatics, electronics, computers and programmable controllers to control the axis of robots through various handling problems. |
| TTA3/4C1 Transportation Technology – Auto Service | Students will use safe work practices as they learn the theory related to the repair and adjustment of frames, suspension systems, brakes and automobile engines. |