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|  **SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY** **SAULT STE. MARIE, ONTARIO**New Logo - College BWCOURSE OUTLINE |
| **COURSE TITLE:** | EVERYDAY MATH |
| **CODE NO. :** | MTH132 | **SEMESTER:** | 15W |
| **PROGRAM:** | General Arts and Science |
| **AUTHOR:** | Mathematics Department |
| **DATE:** | Winter 2016 | **PREVIOUS OUTLINE DATED:** | Winter 2015 |
| **APPROVED:** |  |  |
|  | “Colin Kirkwood”\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_DEAN | Jan 2016**DATE** |
| **TOTAL CREDITS:** | 3 |
| **PREREQUISITE(S):** | N/A |
| **HOURS/WEEK:** | 3 |
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| *For additional information, please contact Colin Kirkwood, Dean**Environment, Technology and Business* |
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| ***(705) 759-2554, Ext. 2688*** |

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| **I.** | **COURSE DESCRIPTION:**This course provides students with the ability to apply mathematics in their daily lives. Students will learn how to reason and interpret with information involving mathematics and numbers. Students will develop skills in problem solving and analysis, which can be applied to personal decision making and to the evaluation of concerns in society. |

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| **II.** | **LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:** |
|  | Upon successful completion of this course, the student will demonstrate the ability to:Represent mathematical information symbolically, visually, numerically, and verbally.1. Interpret mathematical models such as formulas, graphs, and tables, and draw inferences from them.
2. Use arithmetical, algebraic and statistical methods to solve problems.
3. Think critically about, and apply logic to quantitative issues that confront them in their personal lives and as citizens.
4. Recognize that mathematical and statistical methods have limits.
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|  | ***1.*** | Represent mathematical information symbolically, visually, numerically, and verbally. |
|  |  | Potential Elements of the Performance:1. Show the relationship of a quantity with respect to another by using words, a table, an equation, a picture, or a graph.
2. Apply the most appropriate representation method for the situation
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|  | **2.** | Interpret mathematical models such as formulas, graphs, and tables, and draw inferences from them. |
|  |  | Potential Elements of the Performance:1. Manipulate and analyze formulas of linear and nonlinear relations.
2. Use a variety of types of graphs and tables to obtain information.
3. Predict some aspect of the behavior of a particular phenomenon or process.
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|  | ***3.*** | Use arithmetical, algebraic and statistical methods to solve problems |
|  |  | Potential Elements of the Performance:1. Apply guidelines for problem solving to specific situations.
2. Formulate basic algebraic, graphical, or statistical solutions to problems.
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|  | ***4.*** | Think critically about, and apply logic to quantitative issues that confront them in their personal lives and as citizens. |
|  |  | Potential Elements of the Performance:1. Examine and evaluate scientific claims.
2. Analyze the validity, accuracy and/or conclusions of the statistics in the news media, opinion polls, or reports of research.
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|  | ***5.*** | Recognize that mathematical and statistical methods have limits. |
|  |  | Potential Elements of the Performance:1. Recognize that some scientific claims may be biased or inaccurate.
2. Give examples of the possible inaccuracy of estimates in measurement due to biases and /or random and systematic errors.
3. Examine methods used with respect to their appropriateness for the given situation.
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| **III.** | **TOPICS:** |
|  | 1. | Mathematical Methods |
|  | 2. | Mathematical Models |
|  | 3. | Problem Solving and Numbers in the Real World |
|  | 4. | Thinking Critically |
|  | 5. | Statistical Methods |
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| **IV.** | **REQUIRED RESOURCES/TEXTS/MATERIALS:**MyMathLab- Access code must be purchased at the bookstore ISBN 9780321199911A scientific calculator is required. Any additional information will be provided  |
| **V.** | **EVALUATION PROCESS/GRADING SYSTEM:**Assigned work 20% Tests/Practical Tests and/or Quizzes 80% **Some minor modifications to the above percentages may be necessary.** The professor reserves the right to adjust the number of tests, practice tests, quizzes and assigned work based on unforeseen circumstances. The students will be given sufficient notice to any changes and the reasons thereof.There will likely be four or more tests of equal value. If warranted, the professor may choose to also include surprise quizzes, class based work and/or practice tests to reinforce key concepts. **My Math Lab** assignments will be included, and will contribute toward your final mark in the course. In order to pass the course, **students must achieve a passing average on tests and the assigned work.** **Each and every test is mandatory** and an absence from a test without prior approval may result in a zero grade for that test. If the professor chooses to have in class quizzes and / or class based work, absence may also result in zero grades for these activities.**ATTENDANCE**It is your responsibility to attend all classes during the semester. Research indicates there is a high correlation between attendance and student success.If you are absent from class, it is your responsibility to find out what work was covered and assigned and to complete this work before the next class. Your absence indicates your acceptance of this responsibility.**Unexcused absence from a test may result in a mark of zero (“0”).** Absence may be excused on compassionate grounds such as verified illness or bereavement. On return from an excused absence, you should ask your professor to schedule the writing of a make-up test. Failure to do so will be considered as an unexcused absence. |
|   | The following semester grades will be assigned to students: |

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|  | Grade | Definition | *Grade Point Equivalent* |
|  | A+ | 90 – 100% | 4.00 |
|  | A | 80 – 89% |
|  | B | 70 - 79% | 3.00 |
|  | C | 60 - 69% | 2.00 |
|  | D | 50 – 59% | 1.00 |
|  | F (Fail) | 49% and below | 0.00 |
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|  | CR (Credit) | Credit for diploma requirements has been awarded. |  |
|  | S | Satisfactory achievement in field /clinical placement or non-graded subject area. |  |
|  | U | Unsatisfactory achievement in field/clinical placement or non-graded subject area. |  |
|  | X | A temporary grade limited to situations with extenuating circumstances giving a student additional time to complete the requirements for a course. |  |
|  | NR | Grade not reported to Registrar's office.  |  |
|  | W | Student has withdrawn from the course without academic penalty. |  |

**VI. SPECIAL NOTES:**

Attendance:

 Sault College is committed to student success, There is a direct correlation between academic performance and class attendance; therefore, for the benefit of all its constituents, all students are encouraged to attend all of their scheduled learning and evaluation sessions. This implies arriving on time and remaining for the duration of the scheduled session

The professor reserves the right to adjust the number of tests, the final exam, assignments and quizzes as warranted. Any modifications will be discussed in class. Students with special needs and/ or circumstances are required to identify their special needs with the professor.

Attendance is mandatory and the quizzes, in class and assigned work will only be marked when completed in class.

It is the students’ responsibility to notify the professor in advance of any absences and it will be at the professor’s discretion to allow rewrites, retakes, modified assignments or quizzes where warranted.

Work is to be completed by the assigned dates and times. Failure to do so may result in zero grades for the assigned work.

Some of the assigned work may be provided and/or completed through the internet via either myMathLab or LMS.

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| Communication:The College considers ***D2L/LMS***as the primary channel of communication for each course.  Regularly checking this software platform is critical as it will keep you directly connected with faculty and current course information.  Success in this course may be directly related to your willingness to take advantage of the ***Learning Management System*** communication tool.The professor reserves the right to use other tools and/or techniques that may be more applicable. These other tools/techniques for effective communication will be discussed, identified and presented throughout the delivery of course content. |

**VII. COURSE OUTLINE ADDENDUM:**

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| 1. | 1. Course Outline Amendments:The professor reserves the right to change the information contained in this course outline depending on the needs of the learner and the availability of resources. |
| 1 | 2. Retention of Course Outlines:It is the responsibility of the student to retain all course outlines for possible future use in acquiring advanced standing at other postsecondary institutions. |
| 3. | 3. Prior Learning Assessment**:**Students who wish to apply for advance credit transfer (advanced standing) should obtain an Application for Advance Credit from the program coordinator (or the course coordinator regarding a general education transfer request) or academic assistant. Students will be required to provide an unofficial transcript and course outline related to the course in question. Please refer to the Student Academic Calendar of Events for the deadline date by which application must be made for advance standing.Credit for prior learning will also be given upon successful completion of a challenge exam or portfolio.Substitute course information is available in the Registrar's office. |
| 4. | 4. Accessibility Services:If you are a student with a disability (e.g. physical limitations, visual impairments, hearing impairments, or learning disabilities), you are encouraged to discuss required accommodations with your professor and/or the Accessibility Services office. Visit Room E1101 or call Extension 2703 so that support services can be arranged for you. |
| 5. | 5. Communication:The College considers ***Desire2Learn (D2L)***as the primary channel of communication for each course.  Regularly checking this software platform is critical as it will keep you directly connected with faculty and current course information.  Success in this course may be directly related to your willingness to take advantage of this Learning Management System (LMS) communication tool.The professor reserves the right to use other tools and/or techniques that may be more applicable. These other tools/techniques for effective communication will be discussed, identified and presented throughout the delivery of course content. |
| 6. | 6. Academic Dishonesty:Students should refer to the definition of “academic dishonesty” in *Student Code of Conduct*. Students who engage in academic dishonesty will receive an automatic failure for that submission and/or such other penalty, up to and including expulsion from the course/program, as may be decided by the professor/dean. In order to protect students from inadvertent plagiarism, to protect the copyright of the material referenced, and to credit the author of the material, it is the policy of the department to employ a documentation format for referencing source material. |
| 7. | 7. Tuition Default:Students who have defaulted on the payment of tuition (tuition has not been paid in full, payments were not deferred or payment plan not honoured) as of the first week of November, first week of March (winter semester courses) or first week of June (summer semester courses) will be removed from placement and clinical activities due to liability issues. This may result in loss of mandatory hours or incomplete course work.  Sault College will not be responsible for incomplete hours or outcomes that are not achieved or any other academic requirement not met as of the result of tuition default. Students are encouraged to communicate with Financial Services with regard to the status of their tuition prior to this deadline to ensure that their financial status does not interfere with academic progress. |
| 8. | 8. Student Portal:The Sault College portal allows you to view all your student information in one place. **mysaultcollege** gives you personalized access to online resources seven days a week from your home or school computer. Single log-in access allows you to see your personal and financial information, timetable, grades, records of achievement, unofficial transcript, and outstanding obligations, in addition to announcements, news, academic calendar of events, class cancellations, your learning management system (LMS), and much more. Go to <https://my.saultcollege.ca>. |
| 9. | 9. Recording Devices in the Classroom:Students who wish to use electronic devices in the classroom will seek permission of the faculty member before proceeding to record instruction.  With the exception of issues related to accommodations of disability, the decision to approve or refuse the request is the responsibility of the faculty member. Recorded classroom instruction will be used only for personal use and will not be used for any other purpose. Recorded classroom instruction will be destroyed at the end of the course. To ensure this, the student is required to return all copies of recorded material to the faculty member by the last day of class in the semester. Where the use of an electronic device has been approved, the student agrees that materials recorded are for his/her use only, are not for distribution, and are the sole property of the College.  |