Course Syllabus

<table>
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<tr>
<th>Course Name:</th>
<th>QUANTATIVE REASONING</th>
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<td>Course Number:</td>
<td>MATH 1001</td>
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<td>Course Description:</td>
<td>This course will produce students with the developed ability to reliably analyze quantitative information from various sources for the purpose of making decisions, judgments, and predictions. This includes formulating mathematical problems in terms of numeric, graphic, or symbolic representation of real-world phenomena, applying the standard methods of solving well-known model problems, acquiring skills to deduce consequences, formulate alternatives, and predicting outcomes. Fall, Spring. 3 credit hours.</td>
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<td>Pre-requisites/Co-requisites:</td>
<td>Students are required to have exempted or exited Learning Support. If students score between 30 to 36 on the placement test then they may be allowed to take MATH 1001 with the Co-requisite MATH 0997.</td>
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<td>USG General Education Outcomes pertinent to this course:</td>
<td>Quantitative Reasoning and Mathematics: quantitative reasoning and mathematics will be characterized by logic, critical evaluation, analysis, synthesis generalization, modeling, and verbal, numeric, graphical, and symbolic problem solving.</td>
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<td>Competence within the context of collegiate general education objectives is defined by the following outcomes:</td>
<td>o Ability to model situations from a variety of settings in generalized mathematical forms; o Ability to express and manipulate mathematical information, concepts, and thoughts in verbal, numeric, graphical and symbolic form while solving a variety of problems; o Ability to solve multiple-step problems through different (inductive, deductive and symbolic) modes of reasoning; o Ability to properly use appropriate technology in the evaluation, analysis, and synthesis of information in problem-solving situations; o Ability to shift among the verbal, numeric, graphical and symbolic modes of considering relationships; o Ability to extract quantitative data from a given situation, translate the data into information in various modes, evaluate the information, abstract essential information, make logical deductions, and arrive at reasonable conclusions; o Ability to employ quantitative reasoning appropriately while applying scientific methodology to explore nature and the universe; o Ability to discern the impact of quantitative reasoning and mathematics on the sciences, society, and one's personal life.</td>
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Quantitative Reasoning Course Outcomes:

Students should demonstrate the ability to:

1. put numbers into perspective with mastery of operations with various forms of numbers (such as decimal, fraction, percentage, scientific notation).
2. apply developed skills in mathematical logic, including the use of basic set operations; construct valid logical arguments, as well as discover fallacies.
3. understand the meaning of central tendency, variation, and significance of different distributions.
4. understand the difference between the correlation and causation, and be able to interpret statistics represented graphically.
5. apply acquired skills in counting possible outcomes to calculate probability of an event, the odds, probability involving independent events, and conditional probability.
6. understand and appropriately use a variety of mathematical models of real-world phenomena and distinguish between and characterize linear, quadratic, and exponential growth models.

College Policy on Class Attendance:

ATTENDANCE

Courses at Abraham Baldwin Agricultural College are provided for the intellectual growth and development of students. To attain maximum success, students must attend all their classes, be on time, and attend all scheduled course activities including, but not limited to, field trips, seminars, study sessions, individual conferences, and lectures. This interaction with instructors and other students is an important element of the learning process, and a high correlation exists between class attendance and course grades. A student must understand the importance of regular participation in classroom and laboratory activities. The absence of any student affects not only his or her performance but the performance of the class as a whole. Absence from class, for whatever reason, does not excuse a student from full responsibility for class work or assignments missed. Students must accept this responsibility.

Instructors will keep accurate attendance records and must report the individual number of absences with midterm and final grades. Specific attendance requirements applying to labs, clinics, accelerated classes or Learning Support will be adapted to the unique situation by the appropriate division. Final determination of what constitutes an excused absence rests with the classroom instructor. In implementing this policy, faculty will not include in a student’s unexcused absences those absences incurred due to authorized and approved College sponsored events (or in the case of joint-enrollment students high-school sponsored events) in which the student represents the institution as part of a group or under the direct supervision of a faculty or staff member.

Whenever a student is absent, whether for official or personal reasons, the student must assume responsibility and provide notice to the instructor, preferably in advance, for making arrangements for any assignments and class work missed because of the absence. However, final approval for makeup work remains with the individual instructor.

A student who stops attending class without officially withdrawing from the course will receive a grade of “F” for the course.
INSTITUTIONAL ABSENCE

A student who serves as an official representative of the college is defined as one who:

- is authorized to use the college name in public relationships outside the institution;
- regularly interacts with non-college individuals and groups over an extended period of time (at least one semester);
- represents the college as a part of a group and not as an individual;
- represents the college under the direct supervision of a college faculty or staff member; and
- is authorized in writing, in advance, by the President of the college.

Such a student is in no way released from the obligations and responsibilities of all students, but will not be penalized with unexcused absences when absences result from regularly scheduled activities in which he/she represents the college.

Further, it is the responsibility of each student to contact instructors prior to the absence and to make arrangements to make up any work that will be missed, in a manner acceptable to the instructor. Advisors of activities will schedule off-campus activities in a manner that does not unduly disrupt the learning process for a student.

ACADEMIC CONDUCT CODE:

A. **Academic Dishonesty**

Academic irregularities include, but are not limited to, giving or receiving of unauthorized assistance in the preparation of any academic assignment; taking or attempting to take, stealing, or otherwise obtaining in an unauthorized manner any material pertaining to the education process; selling, giving, lending, or otherwise furnishing to any person any question and/or answers to any examination known to be scheduled at any subsequent date; fabricating, forging, or falsifying lab or clinical results; plagiarism in any form related to themes, essays, term papers, tests, and other assignments; breaching any confidentiality regarding patient information.

B. **Disciplinary Procedures**

1. When a faculty member suspects that a student has engaged in academic dishonesty, the faculty member will contact the Office of the Vice President for Academic Affairs. The Vice President for Academic Affairs will notify the student in writing of the report and will appoint a neutral person from among the faculty or staff to meet with the faculty member who reported the matter and the student(s) believed to have engaged in academic dishonesty. The purpose of the meeting, to be scheduled by the Office of the Vice President for Academic Affairs, will be to provide a facilitated discussion about what may have occurred. The faculty member who reported the matter, the student(s) believed to have engaged in academic dishonesty, and the facilitator are the only participants in the meeting. Neither audio nor video recordings of these proceedings will be permitted. Following the discussion, the facilitator will submit a form summarizing results of the proceedings to the Office of the Vice President for Academic Affairs.

2. The faculty member and student(s) may reach an agreement about the matter and, if dishonesty is involved, may determine the appropriate consequences. If no resolution is agreed upon, the matter will be forwarded to the Dean of Student Life and Housing, who will convene the Student Judiciary
Committee to determine the outcome of the allegation.

3. Guidelines for disciplinary procedures as outlined in Section V of the Student Code of Conduct will be applicable in cases involving alleged academic dishonesty. A written copy of the recommendations by the Student Judiciary Committee shall be sent not only to the student but also to the faculty member who made the allegations of academic dishonesty against the student, to the Vice President for Academic Affairs, and to the President.

4. Prior to any finding of responsibility on the part of the student, the faculty member shall permit the student to complete all required academic work and shall evaluate and grade all work except the assignment(s) involved in the accusation of dishonesty. The faculty member may, however, take any action reasonably necessary to collect and preserve evidence of the alleged violation and to maintain or restore the integrity of exam or laboratory conditions.

5. A student may not withdraw from a course to avoid penalty of plagiarism or other forms of academic dishonesty.

If there is a student in this class who has specific needs because of learning disabilities or any other disability, please feel free to contact the instructor.

This is a partial syllabus. More detailed information relating to the class and Instructor will be made available to each student.