Course Prefix and Number:  MATH 124  
Credit Hours:  3-3-0

Course Title:  Mathematical Concepts

Course Prerequisites:  A grade of “C” or higher in MATH 102.


Course Description:  A course for the liberal art and education student stressing thinking critically, putting numbers in perspective in the real world, statistical reasoning, putting statistics to work, living with probability and odds, and mathematics in politics and business.

Learning Outcomes:  At the end of this course, the student will:

A. recognize fallacies and analyze arguments;
B. use percentages correctly;
C. apply rules of probability;
D. interpret and use statistical data, tables and graph;
E. understand and use various types of voting methods;
F. solve problems using Euler Circuits, Hamiltonion circuits, and Traveling salesman problems; and
G. plan and schedule tasks using methods learned in this course.

To achieve the learning outcomes, the student will or will be able to:

(The letter designations at the end of each statement refer to the learning outcome(s).)

1. utilize statistical reasoning to solve everyday problems; (A) and (G)
2. understand the concept of numbers, including percentages and putting numbers into perspective in the real world; (H)
3. discover how statistics are used everyday and apply the rules of statistics and probability to interpret data in our world; (B) and (C)
4. analyze and solve network problems such as Euler Circuits, Hamiltonian Circuits, and Traveling Salesman Problems using deductive and inductive reasoning and strategies; (F)
5. investigate various types of voting methods and their consequences to our everyday life; (D) and
6. examine and utilize the concept of planning and scheduling tasks in real world applications. (E)

Course Requirements:  All students are required to take a comprehensive final exam. When this course is taken in an online environment, the department has established a minimum grade of 50% on the final exam required to earn a grade of “C” or higher in the course. If this minimum score is not obtained by the student, then the student shall refer to the policy outlined

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in the course syllabus which will supersede the course grading scale shown below. All students will take the final exam in a monitored and controlled setting. Students who live less than one hour from Bossier Parish Community College (as determined by Google Maps using the address the student has listed in LoLA) will take the exam on the campus. Students who live outside of the area must notify their instructor via email to discuss alternate testing locations. **Under no circumstances will any student take the exam online in an unmonitored and uncontrolled situation.**

**Course Grading Scale:**

<table>
<thead>
<tr>
<th>Grade</th>
<th>Score Range</th>
</tr>
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<tbody>
<tr>
<td>A</td>
<td>90 – 100</td>
</tr>
<tr>
<td>B</td>
<td>80 – 89</td>
</tr>
<tr>
<td>C</td>
<td>70 – 79</td>
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<tr>
<td>D</td>
<td>60 – 69</td>
</tr>
<tr>
<td>F</td>
<td>0 – 59</td>
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</tbody>
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**Attendance Policy:** The college attendance policy is available at [http://www.bpcc.edu/catalog/current/academicpolicies.html](http://www.bpcc.edu/catalog/current/academicpolicies.html)

**Course Fees:** This course is accompanied with an additional non-refundable fee for supplemental materials, laboratory supplies, software licenses, certification exams and/or clinical fees.

**Nondiscrimination Statement:** Bossier Parish Community College does not discriminate on the basis of race, color, national origin, gender, age, religion, qualified disability, marital status, veteran's status, or sexual orientation in admission to its programs, services, or activities, in access to them, in treatment of individuals, or in any aspect of its operations. Bossier Parish Community College does not discriminate in its hiring or employment practices.

Title VI, Section 504, and ADA Coordinator  
Sarah Culpepper, Manager  
Career Services, F-246  
6220 East Texas Street  
Bossier City, LA 71111  
Phone: 318-678-6539  
Email: sculpepper@bpcc.edu  
Hours: 8:00 a.m.-4:30 p.m. Monday - Friday, excluding holidays and weekends.

Equity/Compliance Coordinator  
Teri Bashara, Director of Human Resources  
Human Resources Office, A-105  
6220 East Texas Street  
Bossier City, LA 71111  
Phone: 318-678-6056  
Hours: 8:00 a.m.-4:30 p.m. Monday - Friday, excluding holidays and weekends.