

## Transition to College Mathematics and Statistics

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### COURSE DESCRIPTION

This course addresses a variety of topics which will engage students in mathematical decision making. These topics include interpreting data, functions, counting methods, financial decision making, statistical inference, informatics, special representations, and democratic decision making. This course is intended to prepare college-bound students for further study in a non-math field.

TI83/TI84 calculators will be used throughout the course and are necessary to be successful.

### STANDARDS: ALIGNMENT TO THE IOWA CORE CURRICULUM

Understands and applies concepts of algebra.

### CONTENT: WHAT ARE WE GOING TO DO IN THIS CLASS?

Unit 1 Interpreting Categorical Data Unit 2 Functions Modeling Change Unit 3 Counting Methods Unit 4 Mathematics of Financial Decision-Making	Unit 5 Binomial Distributions and Statistical Inference Unit 6 Informatics Unit 7 Spatial Visualization and Representations Unit 8 Mathematics of Democratic Decision Making
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### SUPPLIES

- Textbook – Transition to College Mathematics and Statistics
- Notebook and Folder or Binder
- Graphing Calculator: TI-83/84

### INSTRUCTIONAL STRATEGIES

Instructional strategies that will be used in this course, but are not limited to are: direct instruction, active participation, graphic organizers, presentation, cooperative learning, probing questions, questioning strategies, student projects, technology, note taking, modeling.

### GRADING & ASSESSMENTS

**Summative Assessment**– These will consist of unit and semester tests. Tests will always be announced in advance.

**Formative Assessment (Quizzes)** - These may be announced or unannounced.

**Problem Sets** – Students will be expected to solve open ended non routine problems in a collaborative environment. Students are expected to be self-motivated

#### **Grading Scale:**

93.0 – 100%	A	83.0 – 86.99	B	73.0 – 76.99	C	63.0 – 66.99	D
90.0 – 92.99	A-	80.0 – 82.99	B-	70.0 – 72.99	C-	60.0 – 62.99	D-
87.0 – 89.99	B+	77.0 – 79.99	C+	67.0 – 69.99	D+	Below 60%	

### ABSENCES

- If you miss class FOR ANY REASON it is your responsibility to get the notes you missed.
- Problems with absences (excused or unexcused) or tardies will be handled according to the Senior High School attendance policy.

### **RESOURCES: GETTING HELP**

Working together is strongly encouraged. (Copying is not.) Remember I am here to help you if you want to be helped. Feel free to see me if any problems arise or you need any extra help. Also the Math Lab is available in Room A307 for you to get extra help. Friday Academic Support Time (FAST) has tutors available Friday mornings. \

### **BEHAVIORAL/ACADEMIC EXPECTATIONS**

Respect school property, others and their property, the right of others to learn, the teacher, and yourself

*Additional guidelines:*

1. Know the student handbook. If it is in there, it applies in here. (Code of Conduct, Cheating, Etc...)
2. Take care of personal business between classes.
3. Be in your seat ready to work when the bell rings.
4. Respect yourself, your peers, and the adults in the classroom

### **COMMUNICATION**

The best way to contact me with any questions or concerns is via email [jnessan@dbqschools.org](mailto:jnessan@dbqschools.org). You may also reach me by phone at 563-552-5592. Messages left will be returned as soon as possible. I also update Powerschool after every test or quiz we take within a day or two of the assessment. It is a great way to keep track of your or your child's grade.