

**Course Syllabus**  
**MTH 1332.04**  
**College Mathematics (3 credit hours)**  
**Fall Semester 2017**

**Instructor:** Sriyan Wickramasuriya

**Class Meeting Time:** MWF 11:00 am - 11:50 am

**Class Meeting Place:** LDB 212

**Office:** LDB 149

**E-mail:** [spw015@shsu.edu](mailto:spw015@shsu.edu)

**Office Hours:** Monday 12:45 pm-2:45 pm,

Friday 9:30 am-10:30 am **or by appointment**

(The minute you feel you are having trouble understanding any of the material please come to office hours and I am more than happy to help you)

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**Objective:** You will learn to analyze, logically and address, and solve problems.

**Description:** Topics will include sets, counting principles, probability, graph theory, geometry and related other topics. Prerequisites: Two years of high school algebra and high school geometry.

**Textbook:** *A Practical Odessey*, 8th edition, by David B. Johnson, and Thomas A. Mowry

**Exams and Final Exam:** There will be **3 midterm exams** and a **comprehensive final**. You cannot make-up an exam except in cases of documented emergencies.

**Quizzes:** There will be four quizzes. You cannot make-up a quiz except in cases of documented emergencies.

**Homework:** Homework is due at the **beginning of class in class on the due day**. Please **staple your homework** before turning it in.

The homework will be will be graded as follows: for completeness and grading a few selected problems. **Late homework submitted within 2 days of the due date will be given 5 points**. After that late homework will not be accepted.

The following are the homework problems from each section which you need to do for the entire semester.

**Homework List** (*A Practical Odessey, 8<sup>th</sup> Edition by Johnson and Mowry*)

<b><i>SECTION</i></b>	<b><i>PROBLEMS</i></b>
Chapter 2.1 Sets and Set Operations	2,8,17,18,19,22,24,26,30,31,41,46
Chapter 2.2 Applications of Venn Diagrams	1,2,3,6,12,14,27,28,29,30
Chapter 2.3 Introduction to Combinatorics	2,4,6,8,10,12,14,16,18,20,22,24,30,32,36,40
Chapter 2.4 Permutations and Combinations	2,6,8,14,16,18,20,22,23,24,26,34,42,48,49,50,54,56
Chapter 3.2 Basic Terms of Probability	2,4,5,8,12,13,16,18,20,22,28,41,62,63,64,65
Chapter 3.3 Basic Rules of Probability	2,4,11,12,13,19,20,22,39,40,41,42,44,46,48,50,52,64,66,74,76
Chapter 3.4 Combinatorics and Probability	2,6,8,23,24,25,26,27,28,29,30,31,32
Chapter 3.5 Expected Value	14,16,18
Chapter 3.6 Conditional Probability	2,4,5,6,7,8,12,15,17,20,21,22,23,24,26,29,31,32,35,37,38,39,40,53,54,55,56
Chapter 3.7 Independence	2,6,13,19,20,21,22,25,32,55
Chapter 9.1 Graph Theory - Terms	7,8,9,10,15,16
Chapter 9.2 Graph Theory – Eulerian	2,4,6,8,10,14,16,18

**Grades:**

Quizzes: **100** points (**25** points each)

Homework: **100** points (**10** points each)

Midterm Exams: **600** points (**200** points each)

Bonus: **60** Points (not using phone) and **30** Points (responsible signing of the attendance sheet)

Final Exam (Comprehensive):**200** points

**Final Grade=Quiz points + Homework points + Bonus points + Midterm Exam points  
+Final Exam points**

**THERE WILL BE NO NEGOTIATION ABOUT GRADES.**

**A=900** points and above

**B=780-899** points

**C=650-779** points

**D=500-649** points

**F=below 500** points

**Blackboard:** Please check Blackboard **at least every other day because I will upload my Lecture notes, model exams and their solutions, midterm exam solutions and your grades on Blackboard.** Please be sure to check that your grades entered are correct. If you see that a grade is entered incorrectly you need to inform me within seven days of the grade being entered. After that I will not change any grade.

**Calculator:** You must have a calculator for this class and you cannot use your cell phone as a calculator. You cannot borrow a calculator during an exam. Your calculator must be able to evaluate roots, powers, exponentials, and logarithms (a scientific calculator will do this). You may use a graphing calculator on parts of some exams or quizzes, but may not be allowed to use the graphing calculator on other parts.

**Cell Phone Use:** Use of cell phones, smartphones, iphones (text messaging etc.) are prohibited during class time except in cases of emergency. **Using your cell phone in class will result in you losing all 60 bonus points given for not using your phone in class.** During an exam, your cell phone should be stored securely in such a way that it cannot be seen or used. The visible presence of such a device during an exam may result in a zero on the exam and is considered de facto evidence of cheating.

**Class Schedule:**

<b>Date</b>	<b>Tentative Topic</b>	<b>Homework</b>
08/23	2.1 Sets and Set Operations	
08/25	More 2.1	
08/28	Finish 2.1	
08/30	2.2 Applications of Venn Diagrams	HW 2.1
09/01	More 2.2	
09/04	<b>LABOR DAY</b>	
09/06	<b>Quiz 1</b> , Finish 2.2	
09/08	2.3 Introduction to Combinatorics	HW 2.2
09/11	<b>Quiz 2</b> , Finish 2.3	
09/13	2.4 Permutations and Combinations	HW 2.3
09/15	More 2.4	
09/18	More 2.4	
09/20	Finish 2.4	
09/22	Review	HW 2.4
09/25	<b>MIDTERM 1</b>	
09/27	9.2 Graphs and Euler Trails	
09/29	More 9.2, 9.3 Hamilton Circuits,	
10/02	1.2 Symbolic Logic	HW 9
10/04	3.2 Basic Probability	
10/06	More 3.2	
10/09	<b>Quiz 3</b> , Finish 3.2	
10/11	3.3 Basic Rules of Probability	HW 3.2
10/13	More 3.3	
10/16	Finish 3.3	
10/18	Review	HW 3.3
10/20	<b>MIDTERM 2</b>	
10/23	3.4 Combinatorics and Probability	
10/25	Finish 3.4	
10/27	<b>Quiz 4</b> , 3.5 Expected Value	
10/30	3.6 Conditional Probability	HW 3.4,3.5
11/01	More 3.6	
11/03	Finish 3.6	
11/06	3.7 Independence	HW 3.6
11/08	More 3.7	

11/10	Finish 3.7	
11/13	8.7 Geometry-Ellipse	HW 3.7
11/15	8.7 Geometry-Hyperbola	
11/17	Review	
11/20	<b>MIDTERM 3</b>	
11/22-11/26	<b>THANKSGIVING</b>	
11/27	8.7 Geometry-Parabola	
11/29	8.7 Geometry- Circle	
12/01	Review	
	<b>FINAL</b>	

#### Further Notes:

- *Attendance* – You should attend all classes and are responsible for all announcements, assignments, quizzes, and exams given in class.
- *Academic Honesty* – The University expects all students to engage in all academic pursuits in a manner that is above reproach. Students are expected to maintain complete honesty and integrity in the academic experiences both in and out of the classroom. Any student found guilty of dishonesty in any phase of academic work will be subject to disciplinary action.  
<http://www.shsu.edu/~vaf/www/aps/documents/810213.pdf>
- *Religious Holy Days* – Students are excused from attending classes or other required activities, including examinations, for the observance of a religious holy day, including travel for that purpose. As a courtesy, it is appreciated if you notify me in advance and in writing of the dates and times that are to be missed so that appropriate arrangements can be made regarding homework and/or exams. <http://www.shsu.edu/~vaf/www/aps/documents/861001.pdf>
- *Students With Disabilities Policy* – It is the policy of Sam Houston State University that individuals otherwise qualified shall not be excluded, solely by reason of their disability, from participation in any academic program of the university. Further, they shall not be denied the benefits of these programs nor shall they be subjected to discrimination. Students with disabilities that might affect their academic performance should register with the Office of Services for Students with Disabilities located in the Lee Drain Annex (telephone 936-294-3512, TDD 936-294-3786, and e-mail [disability@shsu.edu](mailto:disability@shsu.edu)). They should then make arrangements with their individual instructors so that appropriate strategies can be considered and helpful procedures can be developed to ensure that participation and achievement opportunities are not impaired.

SHSU adheres to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable accommodations for students with disabilities. If you have a disability that may affect adversely your work in this class, then I encourage you to register with the SHSU Services for Students with Disabilities and to talk with me about how I can best help you. All disclosures of disabilities will be kept strictly confidential. NOTE: No accommodation can be made until you register with the Services for Students with Disabilities. For a complete listing of the university policy, see:

<http://www.shsu.edu/dept/academic-affairs/documents/aps/students/811006.pdf>

- *Classroom Etiquette* - Students will refrain from behavior in the classroom that intentionally or unintentionally disrupts the learning process and, thus, impedes the mission of the university. Students are prohibited from eating in class, using tobacco products, making offensive remarks, reading newspapers, sleeping, talking at inappropriate times, wearing inappropriate clothing, or engaging in any other form of distraction. Inappropriate behavior in the classroom shall result in a directive to leave class. Students who are especially disruptive also may be reported to the Dean of Students for disciplinary action in accordance with university policy. <http://www.shsu.edu/students/guide/StudentGuidelines2010-2012.pdf#page=29>
- *Visitors in the Classroom* – Only registered students may attend class. Exceptions can be made on a case-by-case basis. In all cases, visitors must not present a disruption to the class by their attendance. <http://www.shsu.edu/syllabus/>