Course Syllabus
Math 164H.03
College Mathematics
3 Credits
Fall 2006

1. **Class meeting information:** Class meets in 403 LDB
   Monday, Wednesday, and Friday from 10 - 10:50 am

2. **Professor:** Dr. Jacqueline Jensen
   Office: 410 Lee Drain
   Office Phone: 294-3517
   e-mail: jensen@shsu.edu
   web-page: http://www.shsu.edu/∼mth_jaj

3. **Office Hours:**
   Monday 8:30 - 9:00 am and 11:00 - 11:30 am
   Wednesday 8:30 - 9:00 am and 11:00 - 11:30 am
   and, of course, by appointment.

4. **Course Description:**
   This course is designed to meet the objectives of Component area 2 of the core curriculum for non-business and non-science related majors. Topics may include sets, counting principles, probability, logic, linear algebra, linear programming, mathematics of finance, geometry, and calculus. Applications are emphasized. Prerequisites: Two years of high school algebra and high school geometry.

   Class will be divided between lectures and class participation projects.

5. **Course Objectives:**
   This section of Math 164H will cover topics in knot theory. Students completing this course will have developed problem solving skills, brainstorming skills, and explanation skills. They will also have a knowledge of the following topics

   - knots and links
   - techniques for distinguishing knots and links
   - applications of knot theory to other disciplines

6. **Required Textbook:** The Knot Book by Colin C. Adams.

7. **Required Supplies:** No other supplies required.

8. **Attendance Policy:** Students are expected to attend every class. If class must be missed, the student is expected to get the notes from a classmate, and to check the web-page for announcements and updated assignments. The professor will keep a record of attendance. This is especially important because much of the material will be covered during student presentations and through class discussions of topics.

Tardiness: Students are expected to arrive to class on time. If a student is perpetually late, they will be asked to not attend class unless they arrive on time. If tardiness becomes a problem for the class as a whole, people who arrive late will not be permitted to enter the class. If this stricter policy becomes necessary, there will be an announcement made in class and posted on the web-page.

9. **Assignments:**

   (a) **Homework:** Homework will be assigned in class each day. Assignments can be found online at by clicking on the appropriate day of the daily schedule at

   http://www.shsu.edu/~mth_jaj/math164h/due.f06.html

   Some problems will be collected, but others will be discussed or presented in class. This will be made clear at the time of the assignment.

   (b) **Class participation:** Students will be asked to share their solutions to problems. During student presentations or class discussion, each class member is encouraged to ask questions, and to think critically about the solution presented by the classmate.

   Presentation Guidelines

   Grading:

   - Accuracy of the problem you present, including following guidelines below.
   - Defense of your work, including, including following guidelines below.
   - Constructive criticism of classmates work, including following guidelines below.

   In particular you will be awarded a "point" in the appropriate category every time you contribute in one of the following ways:

   - P - presentation point for presenting the solution to a problem
   - Q - asking a good question of the presenter
   - C - an oral contribution other than the two categories above
   - I - contributing a demonstration of mathematical insight into the presentation or question asked.

   Remember that the presenter will always have the first chance to answer a question.

   Guidelines For Your Presentation:

   - Write the problem on the board.
   - State what method/theorem/idea you will use.
   - Clearly explain each step.
   - Do not use stupid, trivial, obvious, etc.

   Guidelines For Defending Your Work:

   - You must answer you classmates' and professor's questions in a respectful manner.
   - Do not use "stupid", "trivial", "obvious", etc.
   - You must try to answer every question posed.
   - Its OK to say, "I'm not sure that I understand your question." It is not OK to say, "Your question doesnt make sense."
   - Talk to the class, not to the board.

   Guidelines For Criticism of Classmates Work:

- You are to ask questions about your classmates work. Do NOT suggest another technique.In some cases, there may be more than one way to solve a problem.
- Do not use "stupid", "trivial", "obvious", etc.
- You must ask questions in a respectful manner.
- Its OK to say, "Can you explain how you got from line 3 to line 4?"It is not OK to say, "Line 4 is wrong," or "Line 4 doesn't make sense."

10. **Projects:** There will be several projects during the course of the semester. Some will be small group (2-3 person) projects, while some will be individual assignments. More information about these will be provided early in the semester.

11. **Exams:** There will be one exam during the semester. It is tentatively scheduled to occur on Friday, 13 October. Any changes to this schedule will be announced in class and posted on the web-page.

    Make-ups: If a student misses the exam, the student will be allowed to replace that exam score with their score on the final exam if the student has not missed more than 3 class periods.

    The **final exam** will be held on Monday, 11 December, 2006 from 11:00 am - 1:00 pm in our regular classroom. It will be comprehensive.

12. **Grading Plan:** The course grade is based on:

Homework / Presentations	Projects	Exam	Final Exam
20%	25%	25%	30%

    The course grade will be assigned via the standard ten-point scale. There is no curve in this class, and no extra credit, so keep up as the semester progresses.

13. **Academic Dishonesty:** All students are expected 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. The University and its official representatives may initiate disciplinary proceedings against a student accused of any form of academic dishonesty including, but not limited to, cheating on and examination or other academic work which is to be submitted, plagiarism, collusion and the abuse of resource materials.

14. **Classroom Rules of Conduct:** Students will refrain from behavior in the classroom that intentionally or unintentionally disrupts the learning process and, thus, impedes the mission of the university.

    Cellular telephones and pagers must be turned off before class begins. Since they are to be turned off, they should not be visible in class. If cell phones become an issue in class, students will be asked to leave if their phone should ring during class. Remember that students will frequently be presenting in this class, and it is rude to have your phone ring when they are presenting.

    Students are prohibited from using tobacco products in class, 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.

15. **Visitors in the Classroom:** Unannounced visitors to class must present a current, official SHSU identification card to be permitted in the classroom. They must not present a disruption to the class by their attendance. If the visitor is not a registered student, it is at the instructor's discretion whether or not the visitor will be allowed to remain in the classroom.

16. **Additional Information** All information on this syllabus is subject to change. Any changes will be announced in class.