Syllabus - Math 681
Graph Theory I
Spring 2018

Instructor: Dr. Haidong Wu
Office: Hume 316
Office Hours: M 4-5 T 3:00-3:50, W 10:00-11:15, or by appointment
Phone: 662-915-7416
E-mail: hwu@olemiss.edu
Class Time: M W 2:30-3:45
Location: Hume Hall 321

Course contents and goals: This is an introductory course to matroid theory. Matroid theory is a branch of discrete mathematics with basic links to graphs, lattices, codes, transversals, and projective geometries. It is a natural generalization of graph theory and projective geometry and provides a framework for describing many important problems in discrete mathematics. We plan to cover Chapters 1-5. Our main goals are to provide the students with a solid background in matroid theory, to prepare for future courses and/or studies in matroid theory and combinatorics, and enhance their critical thinking, mathematical and analytical reasoning abilities.

Grading Policy:

1. Two tests each counting 100 points (lowest one can be replaced by the final percentage).
2. Homework/quizzes will count 100 points.
3. The final examination is comprehensive and will count 150.

The cumulative point total for the class is 450 points (200 points for tests, 150 points for the final, and 100 points for homework).

FINAL GRADE: The following point scale will be used to determine your final grade:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A</td>
<td>93%</td>
</tr>
<tr>
<td>A'</td>
<td>90%</td>
</tr>
<tr>
<td>B'</td>
<td>87%</td>
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<tr>
<td>B</td>
<td>83%</td>
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<tr>
<td>B'</td>
<td>80%</td>
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<td></td>
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<tr>
<td>Grade</td>
<td>Percentage</td>
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<td></td>
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<tr>
<td>C+</td>
<td>77%</td>
</tr>
<tr>
<td>C</td>
<td>70%</td>
</tr>
<tr>
<td>D</td>
<td>60%</td>
</tr>
<tr>
<td>F</td>
<td>below 60%</td>
</tr>
</tbody>
</table>

Very Important:

1. There will be two major tests during the semester. Each test will count 100 points. The test questions will be similar in format to the examples in class and the homework problems. Please bring three large blue books without writing your names by the second week.

2. The lowest test grade will be replaced by the final exam percentage (if it is higher). Please note that the homework/quiz grade cannot be replaced.
3. If a test is missed for ANY reason, a grade of 0 will be given. There will be absolutely NO make-up tests given for ANY reason.

4. Any student who will miss one of the four tests because of an official University function must reschedule and take this test at a time BEFORE the test is scheduled to be given. NO OTHER rescheduling will be allowed.

5. Students must show all work for each test question and arrive at a correct answer.

6. The final examination is comprehensive and will count 150 points.

7. Any student having three or more final examinations scheduled for the same day will arrange with the instructor to take the Noon or the 7:30 p.m. examination on some other mutually satisfactory date.

8. Every student must take the final exam at the time scheduled. The only exceptions are those students affected by # 3 or # 6 above.

**ATTENDANCE POLICY** Students are allowed (3) absences. Ten points are deducted from the final point total for each absence above the limit. It is the student’s responsibility to make sure his/her attendance record is correct.

**CALCULATORS:** Electronic calculators, cell phones, and ipods are prohibited on tests and quizzes.

**ELECTRONIC DEVICES:** All cellular phones, pagers, and other electronic equipment should be turned off during the class period, during movies, in churches, bookstores, restaurants, elevators, grocery stores, and especially while operating a motor vehicle.

**ACADEMIC HONESTY:**

**Cheating:** The following statement is the policy of the Department of Mathematics in Math 681 regarding cheating:

**Offenses:** Cheating on any exam or quiz, theft or attempted theft of exam questions, possession of exam questions prior to the time for examination, or the use of an electronic device (including cell phones) on tests or quizzes shall all be offenses subject to appropriate penalties.

**Penalties:** The penalty for commission of any offense set out above is failure in the course (without possibility of academic forgiveness) and, subject to the approval of the Chancellor, dismissal or suspension from the University.

**WITHDRAWAL DEADLINE FOR SPRING 2016 SEMESTER:** Friday, March 2, 2018. After the course withdrawal deadline, courses dropped will be recorded on University records and the W grade will be recorded if the student is not failing the course at the time of withdrawal; otherwise the grade recorded will be F. After the course withdrawal deadline, a student may drop a course only in cases of extreme and unavoidable emergency as determined by the academic dean; dropping a course after the deadline will not be permitted because of dissatisfaction over an expected grade or because the student is changing his or her major.
ACADEMIC NEEDS:  It is the responsibility of any student with a disability who requests a reasonable accommodation to contact the Office of Student Disability Services (915-7128). Contact will then be made by that office through the student to the instructor of this class. The instructor will then work with the student so that a reasonable accommodation of any disability can be made.

Tentative Test dates: Test 1: Wednesday 2/28/2018; Test 2: Monday 4/16/2018

SPECIAL DATES:
Spring Break: Monday, March 12 - Friday, March 16
Withdraw deadline: Friday, March 2, 2018
Good Friday: March 30, 2018
Classes end: Friday, May 4, 2018
Final Exam: Wednesday, 12:00-3:00 pm, May 9, 2018
THE FINAL EXAM will be comprehensive.