MATH 4473 (0443), Seminar in Discrete Mathematics
Spring 2010, 2:00 – 3:15, MW, BUR 212

Instructor: Dr. Karla Oty
Office: BUR B002

Email: koty@cameron.edu
Phone Number: (580) 581-2483

Office Hours (Tentative): MW 9:00-10:30 and 1:30 – 1:50
TR 9:00 – 10:30
F 9:30 – 10:30
and by appointment

Prerequisites: MATH 2613 (Foundations of Mathematics) and MATH 2235 (Calculus II)


Course Outcomes: Students who successfully complete MATH 4473 will be able to:
- Demonstrate knowledge of combinatorics;
- Demonstrate knowledge of graph theory and recurrence relations;
- Solve problems using generating functions;
- Apply fundamental ideas of discrete mathematics in the formulation and solution of application problems;
- Read and follow proofs in discrete mathematics;
- Express and communicate mathematics using clear and precise mathematical expressions, symbols, and sentences;
- Prove basic theorems using techniques from discrete mathematics;
- Demonstrate knowledge of historical development of discrete mathematics.

Class Procedures: This class is conducted using both lecture and class participation. Regular attendance and participation are strongly encouraged for students to get the maximum benefit from class. You are responsible for all material covered in class and it is your responsibility to keep up with any material missed. You should expect to spend at least 6 hours per week outside of class on homework, studying for quizzes, reading the textbook and handouts, and studying for exams.

An atmosphere conducive to learning will be maintained. Students are expected to exhibit maturity, responsibility, and integrity. Students who do not behave appropriately will be asked to leave the class and in some instances will be dropped from the class. Cell phones, pagers, and other electronic devices should be turned off or turned to silent mode during class. Any student who talks on their cell phone or uses the cell phone for text messaging during class will be asked to drop the class.

In the event that school or the class is canceled for any reason, assignments, quizzes, or tests that were scheduled for the canceled day will be due or taken on the next day that the class meets.
Information concerning this class, including assignments, due dates, and what was covered in class, can be found at http://www.cameron.edu/~koty. I will also post solutions to selected quizzes, tests, and practice tests at this site. If you have missed class for any reason, this should be your first resource for finding out what you missed.

**Homework, Quizzes, and In-class Activities:** Homework assignments should be neatly written with problems clearly labeled, should show the steps used to arrive at the answer or for the proof, and should be the student’s own work. Occasionally, instead of collecting homework, an in-class quiz consisting of selected problems from the homework will be given. Quizzes may be announced or unannounced. Additional quizzes may be given and may be announced or unannounced.

On certain days, activities will be conducted in class to help you master the material that we have discussed. I feel that it is important for you to participate in these activities in class. Some activities may be group activities designed to help you learn the material using your peers as resources and some activities may be collected in class and graded. Students may not make up any activities if they are not in class during the time allotted for the activity. Some homework assignments will be computer assignments using the software package Mathematica. Further details on how to access this program on campus will be made available to the class.

Students are encouraged to work together to increase their learning in this class. However, the homework that is turned in should be your own work, not copied off of another student’s paper. Copied homework will receive a grade of 0.

Assignments will be given in class and are due at the beginning of class on the day indicated in the assignment. Late papers will **not** be accepted and makeup assignments will not be allowed. Late quizzes will not be given. Instead I will drop four of your homework/quiz/class activities scores for excused absences. If at the end of the semester, you have not used your four excused absences drops, I will drop your lowest homework, quiz, or in-class activities scores until you have a total of four homework scores dropped. If you know that you are going to miss class, you can send your assignments to me via another person, email, or to the departmental fax machine (580-581-2616). If you know that you are going to miss a quiz, you may make arrangements with me to take the quiz early.

After your four excused absences drops, the remaining homework, quiz and class activities scores will be averaged. This average will be counted twice in computing your overall grade in the course.

**Examinations:** There will be three examinations each worth 100 points and a final worth 200 points. If you must miss an examination for any reason, it is your responsibility to notify me before the exam so that, when appropriate, suitable alternate arrangements can be made. I will drop one test score (but not the final). If you miss an examination for any reason without making prior arrangements with me before the examination, this will be the examination that will be dropped. If a second examination is missed, it will be recorded as a 0. The final exam for this class is scheduled for Wednesday, May 5th from 12:30-2:30 p.m.
**Cheating:** Punishment for cheating will be at the discretion of the instructor. The instructor reserves the right to assign a course grade of F for cheating.

**Extra Credit:** Extra credit assignments are at the discretion of the instructor. Any extra credit opportunities will be available to the entire class. Extra credit opportunities represent supplemental material and are not intended to replace the class requirements.

**Course Grade:** Your final average score will be the sum of your two highest exam scores, your final exam score and your homework/quiz/class participation score divided by 6. The grading scale will be

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<thead>
<tr>
<th>Score Range</th>
<th>Grade</th>
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<tbody>
<tr>
<td>90-100</td>
<td>A</td>
</tr>
<tr>
<td>80-89</td>
<td>B</td>
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<tr>
<td>70-79</td>
<td>C</td>
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<tr>
<td>60-69</td>
<td>D</td>
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<tr>
<td>59 or below</td>
<td>F</td>
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The instructor reserves the right to lower the grading scale, but will not raise it.

I will post your grades on a password protected website for you to view your grades over the web. Names are entered as they appear on the roster – *Lastname, Firstname Middle Initial*. Your student i.d. code is your password. If you do not wish to view your grades over the web, let me know and I will remove your scores. If you wish to use another password, you must let me know in writing and I will change it. Scores on the final exam will only be distributed by the website or in person.

Please see the Student Information Sheet and Syllabus Attachment for additional information regarding classes at Cameron University.
IMPORTANT DATES (16 WEEK SESSION)
Classes Begin 1/11/10
Last date to enroll or add 1/19/10
Last date to drop with no transcript entry 1/25/10
Last date to drop with full refund 1/25/10
Penalty for late payment begins 2/26/10
Last date to withdraw with an Automatic W 4/12/10
Graduation
Last date to apply for May 3/24/10
Last date to withdraw from a class 4/26/10
Final Exams 5/4/10-5/7/10
Session Ends / Commencement 5/7/10
Final grades posted, 4 p.m. 5/11/10

SPRING SEMESTER HOLIDAYS
Martin Luther King Holiday 1/18/10
Spring Break 3/15/10-3/19/10

HELPFUL NUMBERS (Area code 580)
See http://www.cameron.edu/info/contact.html for a complete listing.
Admissions Office 581-2289
Bookstore 581-2375
CU-Duncan 877-282-3626
Career Services 581-2209
Continuing Ed/Outreach 581-2610
Counseling Center 581-2244
Financial Assistance 581-2293
Ft. Sill Admissions 355-8211
International Students 591-8019
Library 581-2410
Online Help Desk 581-2338
Public Safety, Non-emergency 581-2237
Public Safety, Emergency 581-2911
Registrar 581-2238
School of Business 581-2267
School of Ed and Beh Sci 581-2339
School of Liberal Arts 581-2491
School of Science & Tech 581-2308
Student Activities 581-2217
Student Housing 581-2392
Student Services 581-2244
Student Support Services 581-2352
Testing Center 581-2502
Veterans Affairs 581-2301

CAMPUSSAFETY
Public Safety - The Office of Public Safety is located in Room 100, South Shepler Center. For non-emergency contact, please use (580) 581-2237. For an emergency, please dial x2911 (on campus) or (580) 581-2911 (off campus). Call boxes are also available at prominent locations around campus.
Weather – It is the policy of CU that classes will meet as scheduled. Inclement weather conditions may occasionally create problems for students. The potential inability to attend class, as a result of poor travel conditions, should be discussed between faculty and students before a problem arises. Should inclement weather conditions or other circumstances dictate closing of the university, a delay in start time or event cancellations, announcements will be made through various media. A listing of media outlets used for weather notices is available under the heading Weather Policy in the Student Handbook and online at http://www.cameron.edu/studentservices/handbook. In the absence of any announcement, classes will be held as scheduled. In all instances of inclement weather and/or hazardous travel, please use your best judgment concerning your own personal safety before coming to the university.
Emergency Communication System – The Emergency Communication System allows CU to send time-sensitive notifications via voice messages, emails, and text messages. The service will help us provide a safer environment, enhance emergency preparedness and keep our faculty, staff and students better informed. Students should update their contact information on MyCU. Emergency messages from CU will display caller ID (580) 581-2200 and the email sender will be notice@cameron.edu.

ACADEMIC INTEGRITY STATEMENT
Each student is 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 academic dishonesty, including cheating and plagiarism, will be subject to disciplinary action. Additional information is provided in the Cameron University Code of Student Conduct
http://www.cameron.edu/student_development/student_conduct/
MyCU
Access your MyCU account to check your grades as well as your enrollment schedule, your current charges and payments, and your transcript. MyCU may also be used to pay university bills online through the “My Info” tab and then selecting “Online Payment”. You may also modify your access code and view closed and cancelled classes. To access your account you must use your access (student) ID number and your access code which was assigned when you completed the enrollment process. Your access ID is the unique 6 digit number found on your student ID. For more information about MyCU contact the Office of Admissions at (580) 581-2230.

STUDENT EMAIL
Student email accounts and other services may be found at http://studentmail.cameron.edu The User Name Construction link provides information about user names and passwords. Students should check their Cameron email regularly regardless of whether or not they have other email accounts. A student who wishes to be contacted at an address other than Cameron email should be sure to keep a current preferred address on record in MyCU. Please note that MyCU email addresses and accounts are distinct from BlackBoard accounts for online courses, changing an address in one location does not automatically change the address in the other location.

DISABILITY STATEMENT
It is the policy of Cameron University to accommodate students with disabilities, pursuant to federal and state law. Students with disabilities who need classroom accommodations must make their requests by contacting the Office of Student Development at (580) 581-2209, North Shepler Room 314.

PRIVACY/FERPA STATEMENT
Student records are filed in a variety of offices as listed in the Student Handbook. To protect the rights of students and graduates, CU releases restricted information to other persons or agencies only as provided by FERPA. A student may choose to release information to a third party by completing a FERPA waiver. Forms and information are available in the Office of the Dean of Student Services, North Shepler 324, (580) 581-2244.

COUNSELING CENTER
Any student enrolled in at least six hours may receive mental health counseling free of charge by contacting Student Services at 581-2244. All appointments and discussions are confidential and subject to the appropriate FERPA and HIPAA regulations.

ATTENDANCE POLICY
A student is responsible for the content of each course in which s/he is officially enrolled. At the beginning of each course the instructor will define and quantify attendance standards, procedures for verifying unavoidable absences, and methods of dealing with missed assignments and examinations. It is the student’s responsibility to note these instructions and follow them consistently and carefully.

DROPPING OR WITHDRAWING
All students should check with their advisor and financial aid before dropping or withdrawing from a class. Dropping or withdrawing from a class can be processed in North Shepler, Room 201 or at CU-Duncan.
Dropping - A student may drop a class on or before the last day to drop with a full refund. Classes dropped during this period will not appear on the transcript. Dropping before the last day to drop with a full refund can be processed by the faculty advisor.
Withdrawal from a class with an automatic W - A student may withdraw from a class on or before the last date to withdraw with an automatic W.
Withdrawal from a class without an automatic W - If a student drops after the last date to withdraw with an automatic W but on or before the last date to withdraw, it is the instructor’s discretion as to whether the grade assigned will be a W or an F. Students should obtain the instructor’s signature with the assigned grade on a drop slip.
Complete Withdrawal - A student may withdraw from all classes on or before the last date to withdraw. To process a complete withdrawal, obtain an OFFICIAL withdrawal form from the Registrar’s Office in North Shepler 2nd Floor. Obtain instructors’ signatures for all courses. Obtain Financial Assistance Office clearance and signature if receiving financial aid. Return the Registrar’s Office to process the withdrawal; take the form to the Business Office Cashier or One Stop in North Shepler for final clearance. CU-Duncan students may complete the withdrawal process on the Duncan campus.

INCOMPLETE GRADE
An incomplete grade of “I” may be given at an instructor’s discretion to a student who is not able to complete work because of circumstances beyond the student’s control. The student must have satisfactorily completed a substantial portion of the required coursework for the semester. Students who receive an “I” will have until the time agreed upon between the instructor and the student to complete the required work for the course, not to exceed one year from the end of the semester in which the course was taken.