
Instructor: Prof. Michael Mandel

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Office  2232N
Web  http://mr-pc.org
Office hours  Monday 7–8 pm, Thursday 10–11 am, Thursday 12:15–1:15 pm and by appointment

Course meetings  Monday 8:15–10:20 pm, IH-3214

Prerequisites  Computer and Information Science 7510X or a course in database systems.

Main textbooks

Additional textbooks
- P Tse. Multimedia Information Storage and Retrieval. IGI Global, 2008. Online: http://go.galegroup.com/ps/i.do?id=GAE%7CCX2838600001&v=2.1&u=cuny_main&it=r&p=GVRL&sw=w&asid=1f7075bd4dab1371b17e08c7cb776f04

Grading  The course will be graded on a curve, with the final grade computed by weighting assignments as follows:

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Weight</th>
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<tbody>
<tr>
<td>Participation / attendance</td>
<td>10%</td>
</tr>
<tr>
<td>Homeworks (x2)</td>
<td>10%</td>
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<tr>
<td>Midterm</td>
<td>20%</td>
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<tr>
<td>Project proposal</td>
<td>10%</td>
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<tr>
<td>Project presentation</td>
<td>10%</td>
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<tr>
<td>Project paper</td>
<td>30%</td>
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All homeworks and projects should be turned in via blackboard at least 30 minutes prior to the beginning of the corresponding class period. Homeworks turned in late will be penalized 10% for each day they are late. An assignment that is turned in two days late and would have received a 100% will instead receive an 80%.

Attending class is mandatory and attendance will be taken at the beginning of every meeting. This rule does not apply to absences due to religious observances, as described on page 72 of the Undergraduate Bulletin.
Online Resources Slides, assignments, and readings will be posted on the course website:

http://mr-pc.org/t/cisc7610/

The course will also have a blackboard site with a dropbox for each assignment, grades, and announcements.

Course Topics

1. Introduction to multimedia databases, Examples, Issues related to multimedia data types
2. Review database approaches: Relational databases, especially SQL, Object-oriented databases
3. Multimedia data and data formats, Perception, Compression, Metadata querying, creation, extraction
4. Approaches to multimedia databases: Extended relational, Object-oriented, Object relational, Object databases, NoSQL
5. Multimedia database architectures and performance issues, Storage and disk scheduling issues
6. Distributed multimedia databases, Quality of service
7. Multimedia user interface issues: querying, inputting
9. Text document retrieval: tasks, processing, similarity metrics
10. Image retrieval: content-based retrieval, tagging, captioning
11. Speech and music retrieval: content-based retrieval, tagging, captioning
12. Video retrieval: content-based retrieval, tagging, captioning
13. Multimedia database applications

Key Dates There will be one midterm exam in class on March 21, 2016, and final project presentations on May 16, 2016. Please see the course website for a list of all assignment due dates.

University policy on Academic Integrity The faculty and administration of Brooklyn College support and environment free from cheating and plagiarism. Each student is responsible for being aware of what constitutes cheating and plagiarism and for avoiding both. The complete text of the CUNY Academic Integrity Policy and the Brooklyn College procedure for policy implementation can be found at http://www.brooklyn.cuny.edu/bc/policies. If a faculty member suspects a violation of academic integrity and, upon investigation, confirms that violation, or if the student admits the violation, the faculty member MUST report the violation.

Course policy on Academic Integrity While you are encouraged to discuss the course material and assignments with your classmates and anyone else you might like, all submitted assignments must be strictly your own work. If you include any work from other sources, including existing web pages, publications, books, or conversations, it should be explicitly cited with proper credit given to the original author.

Center for Student Disability Services In order to receive disability-related academic accommodations, students must first be registered with the Center for Student Disability Services. Students who have a documented disability or suspect they may have a disability are invited to setup an appointment with the Director of the Center for Student Disability Services, Ms. Valerie Stewart-Lovell at (718) 951-5538. If you have already registered with the Center for Student Disability Services, please provide your professor with the course accommodation form and discuss your specific accommodations with him.

Email correspondence I will regularly use e-mail to send out announcements, changes in the syllabus, reminders about tests or due dates, etc. It is your responsibility to check e-mail regularly to keep up-to-date with these announcements. I will use the e-mail address you have listed with the College. Therefore, please make sure that this is indeed the correct address.

Please include the course number (CISC 7610) in the subject line of any email you send to me. And please make sure that your full name is clearly visible, either with your email address, in the subject, or in the signature.