

Requirements for Term Project Presentation and Final Report

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Updated course grading

Midterm Exam	25%
Final Exam	30%
Group Term Project	45% (increased from: 35%) + 10% BONUS
(including: In-class Presentation—10%, and Final Report—35%)	

All members of a Project Group will get the same grade for the project.

Full List of Projects Selected by Students

More “Practical” Projects:

- P2) Attacks-Web Server, Email, DOS and Trojan Attacks
- P3) Escalating Privilege-Sniffing, Keylogging, Password Cracking Attacks
- P4) Hardening the Host Computer
- P6) Securing Network Communications 2: Certificates, SSL, and IPsec
- P7) Preparing for and Detecting Attacks 1: Log Analysis and Intrusion Detection

- P8) Preparing for and Detecting Attacks 2: Honeypots, Spyware, Backing Up and Restoring
- P10) The DETER Security Testbed
- P12) Projects proposed by students: Diffie-Hellman Key Exchange Implementation

More “Theoretical” Projects:

- T3) Projects proposed by students: Threats and Vulnerabilities in Optical Networks

In-class Presentation (10% of the class grade)

- *Date:* W, 11/30/05: Groups P2, P3, P4, P6, P7
F, 12/2/05: Groups P8, P10, P12, T3
- *Duration:* 10 minutes – strictly enforced, including all time you need for loading your slides and/or setup of your presentation.
- *Content:* Present your work emphasizing your group’s contributions and conclusions (incl. the most important lessons learned).
- *Format:* I suggest that you prepare slides. Due to strict time limitations, if you plan a demo, it’s probably better to have a pre-recorded demo (using Windows Media Encoder or similar s/w).
- *Grading:* *Technical content* is the primary criterion of evaluation of the presentation. Its quality is determined by how well you describe the issue, how well your presentation explains or addresses it, and how well you used existing resources (software tools, web pages, papers, etc) in your project.

Your presentation will also be graded on its *style*. Elements of presentation style are quality of your verbal communication, and quality of the visuals you use. (Presentations with good technical content but poor style will not receive a good grade.)

Final Report (35% of the class grade + 10% BONUS)

- *Due date:* *Hard copy* of Final Report should be handed to me during the last class, on Friday, 12/2/05.

Electronic copy of Final Report should be e-mailed to me by the end of day on 12/2/05.

Notes:

- 1) Only e-mail coming from a WMU account (ending with “wmich.edu” will be read).
- 2) Files submitted as attachments MUST be scanned with up-to-date anti-virus software, and the message including them MUST contain the following statement:
I have scanned the enclosed file(s) with <name of software, its version>, which was last updated on <date>.

- **Format:** The final report must be produced with *spacing set to 1.5 lines* (extremely important for ease of grading!), with font size 10, using word processing software compatible with MS-Word (producing DOC files).

BONUS 5% of the class grade if the report complies with the IEEE transactions format. Microsoft Word template can be found at the following URLs:

Instructions	http://www.ieee.org/portal/cms_docs/pubs/transactions/TRANS-JOUR.PDF
MS-Word	<p>Template File: http://www.ieee.org/portal/cms_docs/pubs/transactions/TRANS-JOUR.DOC</p> <p>You are expected to follow format of example bibliographic references in the template For references from Web pages you must provide title, author or organization, and the date (either from the web page—if it is dated, or the date when you accessed the page—otherwise).</p>

- **Length:** There is no strict length requirement since reports will be evaluated on technical content, not on length. As a rough guideline: If you are working on a project alone, your report would be 5-6 pages long; for two-member teams, your report would be 8-9 pages long, for three-member teams—11-12 pages long (remember: spacing set to 1.5 lines).
- **Content:** The Final Report should document (with citations and references) all work completed in the project.

For projects based on the book *Computer Security Lab Manual* (all projects except P10, P12, and T3), should use this book as an example of required level of detail for description of experiments. Both the structure and level of detail for experiment description should be followed. (In particular, have both a high-level summary—*Lab Steps at a Glance*, as well as a detailed description—*Lab Steps*).

In addition, I encourage that you include Appendices with a level of detail/length far exceeding that of presented in the *Lab Steps* section. Appropriate Appendices—with clear and descriptive titles—should be referenced from the *Lab Steps* section(s). They may include your detailed lab logs, etc.

BONUS 5% of the class grade if the report follows these content specifications faithfully.

Note: I request that groups P10, P12, and T3 communicate with me to determine the proper contents for presentations and reports.

- **Grading:** *Technical content* is the primary criterion of evaluation of the report. Its quality is determined by how well you describe the goals and milestones of the project, how well your report explains or addresses them, and how well you used existing resources (software tools, web pages, papers, etc) in your project.

Your report will also be graded on *writing style*. Elements of writing style are: clarity of expression, grammar, spelling, organization (incl. division into sections and subsections), and proper description of bibliographic references. (Reports with good technical content but poor style will not receive a good grade.)

Acknowledgment

Thanks are due to Prof. Ala Al-Fuqaha. I have used the structure of his project information class Web page and part of the template table (with MS Word template URL).