

## Additional paragraphs about procedures for conflict resolution

*for page 17* - slight revision of the paragraph about the Graduate Subcommittee:

- *The Graduate Subcommittee* is empowered to make the final decision on pass/fail of the oral qualifying examination that is recommended by a student's Committees on Studies. Students will be allowed at most two attempts to pass the Oral Exam. The Graduate Subcommittee will be the first body to review requests and academic appeals by graduate students who fail to pass examinations, or to resolve other academic disputes. See Section 8.3.C on page 31, for details about graduate student grievance procedures at UNM that are outlined in the *UNM Pathfinder--Graduate Student Handbook* for all graduate students at UNM.

-----

*for page 31* under 8.3.C. Requests for Changes...Appeals of Decisions, replacing the second paragraph:

All decisions by the Admissions Committee, by the Committee on Studies concerning the Qualifying Examination and the Comprehensive Examination, and by the Dissertation Committee regarding approval of the dissertation and passing the defense, can be appealed. Students who wish to appeal a decision or action, if possible, should first seek to resolve the dispute (grievance or complaint) informally, by consulting with the Director of NSMS and the Graduate Subcommittee and to solicit their assistance with mediating a dispute. They will follow the *Graduate Student Academic Grievance Procedures* as described in the *UNM Pathfinder--the Graduate Student Handbook*, which includes obtaining from the Office of Graduate Studies clarification of pertinent rules and regulations and the steps that should be taken to resolve academic disputes informally. The Executive Committee of the NSMS will be advised about the situation and, if necessary, assist with mediating a dispute.

As stated in the *Pathfinder*, "the GSAG procedures are available for the resolution of a variety of possible issues related to the academic process," which "may include, but are not limited to, issues related to progress toward a degree and alleged improper or unreasonable treatment." However, "grievances based upon alleged discrimination or sexual harassment should be directed to the Office of Equal Opportunity" at UNM.

If an informal resolution is not achieved, the Director and Committee should assist the student with considering whether to pursue other available options, such as presenting the dispute to the Executive Committee (which includes the relevant deans), or consulting with the Graduate and Professional Student Conflict Resolution Committee about mediation, or other methods of obtaining a solution. The Director will be responsible for ensuring that there are follow-up steps that are taken to make sure that a student's complaint does not continue unresolved, and for informing the Executive Committee about the status and/or outcome of the dispute.

## Additional Information for the Form Bs.

**NSMS 510** - Robert Duncan, James Brozik, Deborah Evans, David Keller

Readings: Our class will include readings from journals on the recent research, and from our notes. No textbook has been identified, since no text currently exists that is focused on this curriculum. There are specific readings planned, including Richard Feynman's 'There is Plenty of Room at the Bottom'. Other readings will come from reviews of atomic spectroscopy in the solid state, thermodynamics of bulk and surface systems, and a review of basic quantum mechanics applied to nanostructures. These readings will be selected from numerous journal and review articles this summer for the Fall Semester course. Co-authors will also draw on similar published materials.

Grading: One homework problem set will be assigned roughly once each two weeks, for a total of about 7 such problem sets throughout the semester. There will be three exams, but no final exam. Each student will complete a project, and that project will be presented to the class during the last week of instruction.

-----  
**NSMS 512** - Abhaya Datye, Adrian Brearley, Julia Fulghum

Readings: Reference book: Principles of Microscopy, by Peter Hawkes and John Spence, 2006; Readings from the literature

Course format: Lecture, with laboratory sessions that provide opportunity for students to see the various techniques in action.

Grading and Assignments: Regular assignments that involve independent study and critical readings of the literature as well as solutions to problems

Assignments and homework (40%), In class exams (30%), Final exam (30%)

-----  
**NSMS 518** - Jeff Brinker, Steve Brueck

Reading List: Selected papers from Chemical Reviews. For example:

New Approaches to Nanofabrication: Molding, Printing, and Other Techniques. Byron D. Gates, † Qiaobing Xu, † Michael Stewart, ‡ Declan Ryan, † C. Grant Willson, \*, ‡ and George M. Whitesides\* Chem. Rev. 2005, 105, 1171-1196

Self-Assembled Monolayers of Thiolates on Metals as a Form of Nanotechnology. J. Christopher Love, † Lara A. Estroff, † Jennah K. Kriebel, † Ralph G. Nuzzo, \*, ‡ and George M. Whitesides\*, Chem. Rev. 2005, 105, 1103-1169

Selected Reading from the text: Nanochemistry, G.A. Ozin and A.C. Arsenault, RSC Publishing, 2005 and from the text: Sol-Gel Science, C.J. Brinker and G.W. Scherer, AP, 1990.

Selected reading from unpublished and published papers by the Brueck and Brinker groups

Grading: participation in class 20%, homework 20%, Mid-Term and Final Test/Project 30% and 30%, respectively.

---

**NSME 519** - Jingkuang Chen, Christos Christodoulou

Reading list: Textbook: Gregory Kovacs, "Micromachined Transducers Sourcebook," #  
Publisher: McGraw-Hill Science/Engineering/Math; 1 edition (February 1, 1998) #  
ISBN: 0072907223

Grading methods: Midterm exam: 30%, Final exam: 30%, Design project:40%.

---

**NSMS 532** - Diana Huffaker, Kevin Malloy

Readings: Our class will include readings from journals on the recent research, and from our notes. No textbook has been identified, since no text currently exists that is focused on this curriculum.

Grading: There will be three exams, but no final exam. Each student will complete a project, and that project will be presented to the class during the last week of instruction.

---

**NSMS 533** - Tim Ward

Readings: See Form B

Grading: The tentative plan is to have two in-class exams, miscellaneous homework tasks, and a final term paper and oral presentation. The point/weighting breakdown is provided in the table below. Homework assignments and mid-term exams will deal mostly with engineering calculations related to the physical and chemical phenomena. Some problems will be adapted from texts such as Hinds (see Reference list), and others will be developed by the instructor to match the classroom discussion.

Grading Breakdown

|                   |               |       |
|-------------------|---------------|-------|
| 2 mid-term exams  | 2 X 100 = 200 | 40 %  |
| Homework          | 150           | 30 %  |
| Term Paper        | 100           | 20 %  |
| Oral Presentation | 50            | 10 %  |
| TOTAL             | 500           | 100 % |

---

**NSMS 550** - Kirsty Mills, Charles Fleddermann

Readings: Drexler, Engines of Creation; plus supplementary readings.

Grading will be based on class participation and presentations (40%), written assignments (40%), and project (20%).

Sample assignment: Analysis of nanotech news story, identifying and exploring social and ethical implications, and suggesting future approaches.