

## CHEM 167 - Physical Chemistry Preparation

**Time:** 1:10-2:00 PM W

**Room:** Lafayette L307

**Lecturer:** Jianing Li ([jianing.li@uvm.edu](mailto:jianing.li@uvm.edu))

**Office Hour:** TBA

### *Summary*

CHEM167 provides brief reviews of essential math knowledge and skills used in Physical Chemistry. The goal of this course is to prepare students with a basic math background for Advanced Physical Chemistry (CHEM260).

### *Textbooks*

No required textbook.

### *Topics*

Lecture	Topic	Lecture	Topic
1	Review of Basic Math and Physics	8-9	Probability
2	Matrices: Slater Determinant & Secular Determinant	10-13	Discussions
3	Dirac Notation, Variational Principle		
4-5	Multivariable Calculus		
6-7	Summation and Summation Limit		

Note: Lecture numbers are approximate.

### *Grading*

- homework assignments (20%)
- Final Exam (80%)