



## PHY209

# Space and Time in Elementary Physics

## Summer 1998

MTWTh 8:00am-9:30am  
Physics Building B129E

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### Instructors:

- **Taviare Hawkins**

257 Physics Bldg, Syracuse NY 13244-1130

voice: (315)-443-5967, fax: (315)-443-9103

email: [taviare@physics.syr.edu](mailto:taviare@physics.syr.edu)

www: <http://physics.syr.edu/~taviare/>

- **Rob Salgado**

257 Physics Bldg, Syracuse NY 13244-1130

voice: (315)-443-5967, fax: (315)-443-9103

email: [salgado@physics.syr.edu](mailto:salgado@physics.syr.edu)

www: <http://physics.syr.edu/~salgado/>

### Maple Programs

[The Infamous Basketball problem - \(Maple worksheet\)](#)

### Java Applets

[Projectile motion \(overseas\)](#)

[Projectile motion 3 \(overseas\)](#)

[F=ma](#)

[theSummer98coursesyllabus](#)

[theFall95coursesyllabus](#)

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This page is maintained by  
Taviare Hawkins ([taviare@physics.syr.edu](mailto:taviare@physics.syr.edu)) and Rob Salgado ([salgado@physics.syr.edu](mailto:salgado@physics.syr.edu)).

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# PHY209

## Summer1998Syllabus

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- WEEK1  
Falling(TheProjectile)
  - WEEKS2and3  
Beingpushedandpulled(TheIncline)
  - WEEK4  
Oscillating(TheMassonaSpring)
  - WEEK5  
Standing(TheHangingSign)
  - WEEK6  
Beingpushedandpulledbyinvisiblethings(TheElectromagnetic Field)
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### Meetings

- MEETINGS:  
M,T,W,Thfrom8:00amto9:30am  
PhysicsBuildingroom106  
Onoccasion,wewillmeetinthe Archbold211computercluster .Thiswillbe announcedaheadoftime.

### GoalsandMethods

- Thiscourseisintendedtoprepareyouforthecalculus-basedGeneralPhysics(PHY 211/212)sequence.

Thegoalistohelpyou developyourphysicalintuitionandyourproblem-solving skills throughaguided-studyofsomebasicphysicalsystems.

- Eachweek,usinghands-onphysicaldemonstrations, wewill focusononetypeof physicalsystem.
- Youwillbeencouragedto interactkinesthetically with(thatis, "playwith", "getafeel for")theapparatus.

- We will **pose problems** for ourselves and work together in a group-effort to **formulate and execute a plan** toward the solution.

## Grading

- **PARTICIPATION: 20% of your grade.**  
You will be part of a small team of students. You will be expected to **work together to discuss** (*but not literally copy*) your assigned problems. Attendance is required.
- **NOTEBOOK: 50% of your grade.**  
You will be responsible for **maintaining a neat, organized and complete notebook** containing all classwork and homework. These notebooks will be submitted for a grade on a weekly basis. Late submissions will be penalized.
- **QUIZZES: 30% of your grade.**  
Once a week, you will take a **short 10-minute quiz** that will be based on classwork and homework. You may drop one quiz score. There are **no make-up quizzes**. Absences count as zero.

## Class Materials

- **Pen and/or Pencil**
- **Large Notebook** (see above)
- There is **no textbook** for the course.
- **Calculator**
- **SUnix account** (required; so that you have access to the computer clusters)
- **computer diskette** (optional; so that you can save **Maple** programs that we will write)

Check the [PHY209 homepage](#) regularly for announcements.

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