General Course Data

Course Number: MAE 206, Sec. 1
Catalog Number: 11:40 to 1:10 Every day of the week
Course Title: Engineering Static
Credit-hours: 3
Course Pre-requisites: Preq: PY 205, Coreq: MA 242
Instructor: Dr. Afsaneh Rabiei, Office: BR 2417, Email: arabiei@ncsu.edu,
Office hour: W Th 2:00 – 3:30
Course links: [http://www.mae.ncsu.edu/courses/mae206/rabiei/index.html](http://www.mae.ncsu.edu/courses/mae206/rabiei/index.html)

Course Objectives

The students will be asked to demonstrate their knowledge of the material covered in Statics through their mastery of the following course objectives. Through the study of Statics the student will be able to:

- Analyze static equilibrium for rigid bodies
- Model physical systems using free body diagrams
- Classify types of problems
- Solve for reaction forces and moments
- Determine equivalent force systems
- Calculate internal forces
- Calculate centroids and moments of inertia

Textbook


Course Requirements

Four partial exams taken every week to cover two chapters of the book
Actively participating in class will bring you a bonus!

Evaluation/Grading

4 partial exams each one (15%)  
Final Exam (40%)

instructor, resolve to:

* Treat all students as a stakeholder in their own success and that of the class
* Respect cultural diversity, mixed abilities and other differences at all times
* Convey adequate and timely information to the students about evaluation of their work
* Support each student in a process of continual improvement that supports his or her achievement

**instructor expect you as a student to resolve to:**

* Take pride and ownership in the class and display a desire to learn
* Take responsibility for your own learning
* Respect cultural diversity, mixed abilities and other differences at all times
* Be a team player
* Conduct yourself as a professional, exhibiting: honesty, punctuality, and courtesy to your colleagues.

**Final Grading Chart**

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<tr>
<th>A+</th>
<th>A</th>
<th>A-</th>
<th>B+</th>
<th>B</th>
<th>B-</th>
<th>C+</th>
<th>C</th>
<th>C-</th>
<th>D+</th>
<th>D</th>
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<td>100</td>
<td>97</td>
<td>92</td>
<td>90</td>
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<td>65</td>
<td>62</td>
<td>52</td>
<td>50</td>
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All the exams are close book. The exams are given during the class time (except the final exam). Students should bring a calculator to the exam.

**POLICIES AND PROCEDURES**

1. **Students are expected** to be familiar with the University policy on academic integrity found in the 41.03 Code of Student Conduct (found in *Appendix L of the Handbook for Advising and Teaching*)
   a. [www.ncsu.edu/provost/academic_regulations/integrity/reg.htm](http://www.ncsu.edu/provost/academic_regulations/integrity/reg.htm)

2. Arrangements for **missed exams** will be made on an individual basis provided you have an excused absence AS DEFINED by University attendance regulation ([www.ncsu.edu/provost/academic_regulations/attend/reg.htm](http://www.ncsu.edu/provost/academic_regulations/attend/reg.htm)).

3. An incomplete grade will be assigned ONLY for incomplete work due to an excused absence.

4. Class attendance will **not** be taken. However, many example problems will be solved during class and any questions you may have during the lecture will be answered.
5. Eight weekly homework assignment will be given BUT they will NOT be collected and graded. Similar problems will be solved in class. These should be used as a guide for all home problems. Solutions for HW problems are already posted on the web.

13. **Weather Policy**: If university classes are canceled on the day an exam is scheduled the exam will be rescheduled for the following class period.

14. **The Honor Pledge**: “*I have neither given nor received unauthorized aid on this test,*” will be in effect for all exams.

15. **List of approved and acceptable Calculators to be used in exam**: (according to National Council of Examiners for Engineers)

   - Hewlett Packard – HP 30s
   - Hewlett Packard – HP 33s
   - Hewlett Packard – HP 9s
   - Casio – FX 115 ES, FX 115 MS, and FX 115 MS Plus (Note: FX 115 ES and FX 115 MS models ending with an "-SR" designation are also allowed.)
   - Texas Instruments – TI 30XA (or TI 30Xa)
   - Texas Instruments – TI 30X IIS and TI 30X IIB
   - Texas Instruments – TI 36X Solar

16. **Students with Disabilities**: Reasonable accommodations will be made for students with verifiable disabilities. In order to take advantage of available accommodations, students must register with: [http://www.ncsu.edu/provost/offices/affirm_action/dss/](http://www.ncsu.edu/provost/offices/affirm_action/dss/)

   Disability Services for Students
   1900 Student Health Center
   Campus Box 7509
   515-7653

17. For more information on NC State's policy on working with students with disabilities, please see: [http://www.ncsu.edu/provost/hat/current/appendix/appen_k.html](http://www.ncsu.edu/provost/hat/current/appendix/appen_k.html)

18. **Extra Expenses**: Students are required to purchase **Engineering Paper** for their homework assignments. A NCEES approved calculator must be used for all exams. Approved calculators can be found at: [http://www.ncees.org/exams/calculators/#policy](http://www.ncees.org/exams/calculators/#policy)