

## Department of Engineering

Division of Architecture, Engineering & Technology  
West Campus Building 9, Room 140 (407)-582-1902/1903

<http://www.valenciac.edu/west/engineering>

SESSION: Fall 2011

---

### Course syllabus for EGS 2310, Engineering Analysis -Dynamics, CRN 11130

Catalog Course Description: Fundamental concepts of mechanics, including resultants of force systems, free-body diagrams, equilibrium of rigid bodies, and analysis of structures..

Class time and location:

CRN 11130: 8:30-9:45 AM, Tue and Thur., Bldg 11 Room 236

.

Textbook: *Engineering Mechanics Statics*, 12<sup>th</sup> edition by R.C., **text with e-version (masteringengineering web site included)**, Hibbeler, Publisher: Prentice Hall.

Materials: Programmable calculator recommended (TI-89 or equivalent preferred).

#### Professor's Information:

Dr. Kwabena Oforu, P.E.

Office: none.

Phone: 321-733-3041 ext 5344; 321-544-8787

E-mail: [kofosu@mail.valenciac.edu](mailto:kofosu@mail.valenciac.edu); [ofosuk@palmbayflorida.org](mailto:ofosuk@palmbayflorida.org)

Website: [www.kboforu.com](http://www.kboforu.com)

Office hours: none.

Students may contact me by email or phone at anytime

---

#### Student Performance Assessment (Tentative):

Weight of tests:	25%
Weight of quizzes:	30%
Weight of final:	20%
Weight of homework	15%
Class Attendance	10%
Grading scale: 90-100% = A	
80-89% = B	
70-79% = C	
60-69% = D	
0-59% = F	

---

## Notes:

1. The syllabus and course outline may be changed with notice from the instructor.
  2. **Withdrawal deadline: November 4, 2011. You cannot withdraw (without approval) after that date (per new Valencia policy). But instructor may withdraw you for 3 absences or more per this syllabus.**
  3. Class attendance and punctuality are crucial factors in the learning process and successful completion of the course. Students with more than 3 unexcused absences may be withdrawn from the course. **Being more than 15 minutes late will be counted as an unexcused absence (unless agreed to by the instructor in advance or an emergency as agreed to by instructor).**
  4. **Quizzes will be conducted in the first 15- 20 minutes of the class on a day a quiz is scheduled. If you arrive late you will miss the quiz.**
  5. **Missed quizzes or tests may be made up within one calendar week, but with advance notification and prior approval. However it is the student's responsibility to find a mutually acceptable time, otherwise a zero will be earned on that assessment.**
  6. **Late work may be accepted for up to one week overdue, but will be assessed a late submittal penalty. No exceptions.**
  7. It is the student's responsibility to find out what was covered in class if absent.
  8. Answers on quizzes and tests must be circled for proper credit.
  9. Students with disabilities; See me early if you need special arrangements and you have officially gone through the Office of Disabilities.
  10. Check your atlas account as well as the instructor's website regularly for possible e-mails or other relevant information and announcements from the instructor.
  11. **Turn off your cellular phones prior to entering the classroom. Do not leave the class room to answer cell calls unless real emergency.**
  12. I am here to help. It is important you see me early if you are struggling with the course material.
  13. Per our ABET accreditation status the final exam is mandatory. Failure to take the final will result in an automatic F grade.
  14. Academic code of conduct: Students are advised to review the College policy on plagiarism, testing malpractices, and other forms of academic misconduct. Academic misconduct may result in severe penalties including dismissal. This instructor will forward any such cases to the appropriate authority.
- 

## **Important Dates**

Labor Day, No Classes	September 5, 2011
No Show Reporting	September 7 – 13, 2011
Withdrawal Deadline (To receive a "W")	November 4, 2011
Faculty Day, No Classes	October 6, 2011
Thanksgiving Holidays, No Class	November 24 – 25, 2011

### Tentative Course Outline: Fall 2011

Week	Date	Topic	Text	Notes
Week 1	Aug 30 –Sept 1, 2011	Introductions, General Principles	Sec 1.1 – 1.6	
Week 2	Sept 6-8, 2011	Force Vectors	Sec 2.1 – 2.5	Quiz 1
Week 3	Sept 13-15, 2011	Force vectors	Sec 2.6 – 2.9	Quiz 2
Week 4	Sept 20-22, 2011	Equilibrium of a Particle	Sec 3.1- 3.4	Quiz 3
Week 5	Sept 27-29, 2011	Force System Resultants	Sec 4.1 – 4.5	Test 1
Week 6	Oct 4 2011	Force System Resultants	Sec 4.6 – 4.9	Homework 1
Week 7	Oct 11 - 13, 2011	Equilibrium of a Rigid Body	Sec 5.1 – 5.7	Quiz 4
Week 8	Oct 18 - 20, 2011	Structural Analysis	Sec 6.1 – 6.6	
Week 9	Oct 25 - 27, 2011	Internal Forces	Sec 7.1 – 7.4	Test 2
Week 10	Nov 1 – 3, 2011	Internal Forces	Sec 8.1 – 8.8	Homework 2
Week 11	Nov 8 – 10, 2011	Friction	Sec 9.1 – 9.5	Quiz 5
Week 12	Nov 15 – 17, 2011	Center of Gravity and Centroid	Sec 10.1 – 10.4	Quiz 6
Week 13	Nov 22, 2011	Moments of Inertia	Sec 10.5 – 10.8	Test 3
Week 14	Nov 29 – Dec 1, 2011	Virtual Work, Presentations	Sec 11.1 – 11.7	Quiz 7 (optional) Homework 3, Presentations
Week 15	Dec 6 – 8, 2011	Presentations, Review for Final		Presentations, Review
Week 16	Dec 13, 2011	Final Exam		Final



