

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: Summer 2011

Course syllabus for EGS 2321, Engineering Analysis -Dynamics, CRN 35162

Catalog Course Description: Kinematics and Kinetics of particles and rigid bodies: mass and acceleration, work and energy, impulse and momentum.

Class time and location:

CRN 35162: 5:30-7:10 PM, Mon and Wed., Bldg 11 Room 237

Textbook: *Engineering Mechanics Dynamics*, 12th 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:

Kwabena Oforu, Ph.D., P.E.

Office: none.

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

E-mail: kofosu@mail.valenciac.edu; ofosuk@palmbayflorida.org

Website: 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 home work	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 by notice from the instructor.
 2. ~~[Tentative] Homeworks will be done on line at the masteringengineering website. The course ID for the mastering engineering website log in will be MEREGIS21087. It is your responsibility to get familiar with the website requirements prior to attempting the homework problems. Certain units and formatting requirements pertain.~~
 3. **Withdrawal deadline: July 1, 2011. You cannot withdraw (without approval) after that date (per new Valencia policy). But instructor may withdraw you if 3 absences or more per this syllabus.**
 4. 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 Students with more than 3 unexcused absences may be withdrawn from the course.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).**
 5. **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.**
 6. 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.
 7. **Late work may be accepted for up to one week overdue, but will be assessed a late submittal penalty. No exceptions.**
 8. It is the student's responsibility to find out what was covered in class if absent.
 9. Answers on home works, quizzes and tests must be circled for proper credit.
 10. Students with disabilities; See me early if you need special arrangements and you have officially gone through the Office of Disabilities.
 11. 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.
 12. **Turn off your cellular phones prior to entering the classroom. Do not leave the class room to answer cell calls unless real emergency.**
 13. I am here to help. It is important you see me early if you are struggling with the course material.
 14. Per our ABET accreditation status the final exam is mandatory. Failure to take the final will result in an automatic F grade.
 15. 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.
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Important Dates

No Show Reporting

May 17 – 23, 2011

Withdrawal Deadline (To receive a "W")

July 1, 2011

Tentative Course Outline: Summer 2011

Week	Date	Topic	Text	Notes
Week 1	May 9 -10, 2011	Introductions, Kinematics of a particle	Sec 12.1- 12.6	
Week 2	May 16 -17, 2011	Kinematics of a particle	Sec 12.7- 12.10	Quiz 1
Week 3	May 23 -24, 2011	Kinetics of a particle	Sec 12.1- 12.6	Quiz 2
Week 4	May 30 -31, 2011	Kinetics of a particle	Sec 13.1- 13.7	Test 1
Week 5	June 6 – 7, 2011	Kinetics of a particle	Sec 13.1- 13.6	Quiz 3, Homework 1
Week 6	June 13 – 14, 2011	Kinetics – Orbital Mechanics	Sec 13.7	
Week 7	June 20 – 21, 2011	Kinetics: Work & Energy	Sec 14.1- 14.6	Homework 2
Week 8	June 27 – 28, 2011	Kinetics: Impulse & Momentum	Sec 15.1- 15.7	Test 2
Week 9	July 4 – 5, 2011	Planar Kinematics: Rigid Bodies	Sec 16.1-16.8 Sec 17.1-17.5	Interim Grade, Quiz 4
Week 10	July 11 – 12, 2011	Planar Kinematics: Rigid Bodies	Sec 18.1-18.5	Quiz 5, Homework 3
Week 11	July 18 – 19, 2011	Rigid Bodies 3 Dim. Kinematics of a Rigid Body	Sec 19.1-19.4 Sec 20.1-20.4	Homework Presentations Test 3 (optional)
Week 12	July 25 – 26, 2011	Free Vibrations of Rigid Bodies Review for Final	Sec 22.1-22.2	Homework Presentations
Week 13	August 1 – 2, 2011	Final Exam		Final

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SESSION: Summer 2011

Course syllabus for EGS 2321, Engineering Analysis -Dynamics, CRN 35433

Catalog Course Description: Kinematics and Kinetics of particles and rigid bodies: mass and acceleration, work and energy, impulse and momentum.

Class time and location:

Time: 9:00-10:40 AM, Tues and Thurs., Bldg 11 Room 236 CRN 35433

Textbook: *Engineering Mechanics Dynamics*, 12th 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).

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