

**Course Syllabus**  
**CAP 3220 Introduction to Computer Aided Modeling**  
**Section 9240, Fall 2011**

1. Catalog Description (3 credits):  
Introduction to topics related to computer-aided modeling. Polygonal mesh, NURBS and subdivision surface meshes. Materials and shading networks. Lighting, shadows and rendering.
2. Pre-requisites and Co-requisites  
Pre-requisites: MAC 1147 Precalculus: Algebra and Trigonometry, or equivalent
3. Course Objectives:  
At the end of the semester, students are expected to be able to
  - Create surface meshes of 3D objects
  - Create and edit materials and textures to geometry
  - Adjust lighting, cameras
  - Create animation and render image/images
  - Use Maya
4. Instructor: Rong Zhang  
Office location: CSE E526  
Telephone: 352-505-1542  
E-mail address: rzhang@cise.ufl.edu  
Office hours: T 10:00am – 12:00pm and W 2:00pm – 3:00pm or by appointment in CSE E526
5. Teaching Assistant  
Name: Shaoyu Qi  
E-mail address: sqi@cise.ufl.edu  
Office hours: R 4:00pm – 6:00pm and F 3:00pm – 4:00pm or by appointment  
Office hour Location: CSE E211A
6. Meeting Times:  
MWF period 4 (10:40am – 11:30am)
7. Meeting Location: CSE 211A
8. Textbooks and Software  
Required textbook: Learning Autodesk Maya 2009 Foundation  
Publisher: Autodesk Press (Sybex - Wiley) ISBN: 1897177518  
  
Recommended textbook: Learning Autodesk Maya 2009 The Modeling and Animation Handbook ISBN: 1897177526  
  
Software: Students do not need to purchase the software. Maya Unlimited 2009 is available in UF CIRCA Lab. Newer version of Maya can be downloaded from <http://students.autodesk.com/> freely as a student.

#### 9. Course Outline -

Following are the tentative course outline. There might be a slight shift in topics depending on the backgrounds or interests of the students

- Introduction to the Maya interface
- Basic 3D concepts: different coordinate system, pivot point
- Polygonal modeling
- NURBS modeling
- Subdivision surfaces
- Advanced modeling
- Shading and texture
- Lighting
- Camera models
- Rendering
- Key frame animation
- Maya embedded language

#### 10. Attendance and Expectations –

Class attendance is required. If for some reason you have to miss a class, you are responsible for getting class notes from a classmate. Make sure to email your completed work to the instructor or TAs before class to avoid a penalty if an assignment is due. Cell phones should be turned off or set to vibrate.

#### 11. Homework Policies –

You may discuss assignments with other students. But you must do the project by yourself. If one project is proven to be copied from another student or directly from the internet, 0 point will be given.

Late assignments will be accepted with a penalty of deduction of 20% of the maximum point value every 12 hours, for up to 2 days. Please plan your final renderings for one to two days in advance.

You are allowed TWO free late-days that you can use at anytime. Please note that once you have used your late days, no additional extensions will be granted for any reason at all. Please let the TA know you plan to use your late-day in your submission.

#### 12. Grading –

Final grade is calculated according to the following schedule

Quizzes	25%
Homework and projects	50%
Final project	25%

#### 13. Grading Scale –

A(100-95), A-(94-90), B+(89-87), B(86-83), B-(82-80), C+(79-77), C(76-73), C-(72-70), D+(69-67), D(66-63), D-(62-60), F(59-0)

A C- will not be a qualifying grade for critical tracking courses. In order to graduate, students must have an overall GPA and an upper-division GPA of 2.0 or better (C or better). Note: a C- average is equivalent to a GPA of 1.67, and therefore, it does not satisfy this graduation requirement. For more information

on grades and grading policies, please visit:

<http://www.registrar.ufl.edu/catalog/policies/regulationgrades.html>

14. Make-up Exam Policy –

All students should plan to take their exams at the scheduled times. In the case of sudden or unexpected events that will cause them to miss an exam, students are required to notify the instructor prior to the exam or as early as possible. Make-up exams are given only in exceptional circumstances with the Instructor's permission.

15. Honesty Policy –

All students admitted to the University of Florida have signed a statement of academic honesty committing themselves to be honest in all academic work and understanding that failure to comply with this commitment will result in disciplinary action. This statement is a reminder to uphold your obligation as a UF student and to be honest in all work submitted and exams taken in this course and all others.

16. Accommodation for Students with Disabilities –

Students requesting classroom accommodation must first register with the Dean of Students Office. That office will provide the student with documentation that he/she must provide to the course instructor when requesting accommodation.

17. UF Counseling Services –

Resources are available on-campus for students having personal problems or lacking clear career and academic goals. The resources include:

- University Counseling Center, 301 Peabody Hall, 392-1575, Personal and Career Counseling.
- SHCC mental Health, Student Health Care Center, 392-1171, Personal and Counseling.
- Center for Sexual Assault/Abuse Recovery and Education (CARE), Student Health Care Center, 392-1161, sexual assault counseling.
- Career Resource Center, Reitz Union, 392-1601, career development assistance and counseling.

18. Software Use –

All faculty, staff and student of the University are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against University policies and rules, disciplinary action will be taken as appropriate. We, the members of the University of Florida community, pledge to uphold ourselves and our peers to the highest standards of honesty and integrity.