

Course Syllabus

CAP 3220 Introduction to Computer Aided Modeling Section 9240, Fall 2008

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: 392-9685
E-mail address: rzhang@cise.ufl.edu
Office hours: Thursday 1:00pm – 3:00pm or by appointment in CSE E526
5. Teaching Assistant
Name: Ying Xuan
E-mail address: yxuan@cise.ufl.edu
Office hours: Tuesday 10:00am – 11:30am and Friday 3:30pm – 5:00pm or by appointment in CSE E115
6. Meeting Times:
MWF period 7 (1:55pm – 2:45pm)
7. Meeting Location: CSE E220
8. Textbooks and Software
Required textbook: Learning Maya 8 Foundation
Publisher: Autodesk Press (Sybex - Wiley)
ISBN: 1-897177-33

Recommended textbook: Learning Maya 7 The Modeling and Animation Handbook
ISBN: 1-894893-875

Software: Maya Unlimited 8.0 is available in UF CISE computer lab E115, Maya 8.5 is available in UF CIRCA Lab students do not need to purchase.

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.

12. Grading Scale –

Final grade is calculated according to the following schedule

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

And the grade scale is:

A(100-90),B+(89-85),B(84-80),C+(79-75),C(74-70),D+(69-65),D(64-60),F(59-0)

13. 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.

14. 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.

15. 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.

16. 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.

17. 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.